



समानो मन्त्रः समितिः समानी

# University of North Bengal

## ANNUAL REPORT

2020-2021

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**Raja Rammohunpur  
Dist. - Darjeeling  
PIN - 734013**

# ANNUAL REPORT

## 2020 – 2021



‘সমানো মন্ত্র সমিতি সমানী’

### **UNIVERSITY OF NORTH BENGAL**

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*“It is my hope that this University, situated in the foothills of the ancient Himalayas, will evolve into a centre of national integration for all the peoples of different ethnic origins who live in these districts – the people of the hills and the plains including the tribal people. May this University as it grows and prospers produce not merely scholars equipped with academic qualifications but young men and women poignantly conscious of and eager to fulfil their social responsibilities so that they may become valuable citizens of this great country to which we all have the ineffable honour of belonging.”*

- Smt. Padmaja Naidu, Hon’ble Governor of West Bengal and Chancellor, NBU  
(Convocation speech, 31<sup>st</sup> October, 1965, NBU)



*“This University also represents the new Bengal and the new India. You are located in a most strategic area-in the narrow corridor which links the North Eastern region with the rest of the country. You are in a position of vantage to study the country's external relation in the context of our immediate neighbour-sub-Himalayan, Trans Himalayan and to the South-East Pakistan. I would welcome specialisation in area studies of this kind-the historical, political and economic situation and cultural mood of these neighbouring territories.”*

- Smt. Indira Gandhi, Hon'ble Prime Minister of India  
(Convocation speech, 10<sup>th</sup> October, 1966, NBU)



## FOREWORD

Established in 1962 and located in the lap of Himalayas, the University of North Bengal is providing an affable space of higher education for last six decades. Since its inception, the University has grown steadily, and today it is offering education and research through thirty-four Departments to meet the growing needs of this region. In addition, fifty numbers of affiliated colleges in six districts of the state are extending undergraduate studies to more than one lakh students. Over the time, the University has become most preferred choice of the students of this region who are aspiring higher education in the different fields of science and humanities.



The year 2020 – 2021 has been frightening for the entire world as deadly COVID 19 wreaked havoc in everyone's life. Among the major impacted areas, the pandemic affected all levels of educational systems across the world. In our country too, physical classes could not be undertaken for most part of the year in compliance with the government health advisory.

During this tiring period, the educational institutions had only choice to adopt e-learning. Our University has also quickly adopted the technology driven teaching-learning process and ensured regular classes for the students. Overall, despite the hit of pandemic, the University has done commendable work to continue dissemination of knowledge.

I am glad to present the Annual Report of the University of North Bengal for the year 2020 – 2021. This issue of the report showcases the educational, administrative and research activities of the University during the pandemic, as well as the facilities being provided to the students and scholars to ensure quality education and a worry-free campus life.

I take this opportunity to thank the Office of the Development Officer for its efforts in bringing this edition of the Annual Report. I would also like to place on record my sincere appreciation to the faculty members, officials, staff, students and researchers of the University for their efforts during the year which is reflected in this report.

Finally, I would like to thank the members of the Apex Bodies of the University; the Court, the Executive Council and the Faculty Councils, for their support and encouragement in order to make the University a human resource base for uplifting the social and economic status of the state as a whole and the region in particular.

I hope the readers will find the Report both informative and useful.

Best Regards,

Prof. Om Prakash Mishra  
Vice-Chancellor





## **From the Desk of Development Officer**

The Annual Report is an important exercise to record and assess the yearly activities and performance of the University and also to plan accordingly for the future in order to meet the desired goal of providing quality and affordable education for all. This is also a public disclosure of University's activities, achievement as well as financial statistics.

Annual Report 2020 – 21 showcases the organizational structure along with admission statistics, academic programs, research focus and achievements of the University. It also portrays financial statement of the year, services provided as well as facilities available. Photographs of the campus and few central facilities of the University have been added in this version of the Annual Report to enable the readers a virtual tour through the campus.

All the Departments, Centres, Offices and Units of the University have submitted detailed information and relevant statistics for the year. In spite of the 'New Normal' in the teaching-learning process, the Academic Departments of the University have done commendable work in the area of research and publication. My office has captured the academic and research outcomes of the University as well as administrative activities carried out during the year. I extend my sincere thanks to the Heads of all Academic and Administrative Departments of the University for their support.

I am also thankful to the Hon'ble Vice-Chancellor and Registrar for their continuous encouragement in reshaping the Annual Report format. I am also thankful to the Superintendent of the University Press and his staff for extending full cooperation in publishing this report.

Finally, last but not the least, I am thankful to my office colleagues for their tireless efforts to bring this issue of Annual Report. Although utmost care has been taken during compilation and editing works, I would like to apologize in advance, if some errors still exist.

I hope that the Annual Report 2020 – 21 is able to represent the academic culture and activities of the University to its readers. Suggestions are also welcome from the University stakeholders for further improvement of the future reports.

Palash Paul  
Development Officer



## **VICE-CHANCELLORS OF THE UNIVERSITY**

- |  |   |
|--|---|
| <b>1. Professor B.N. Dasgupta</b>          | <b>1<sup>st</sup> June, 1962 to 31<sup>st</sup> May, 1966</b>           |
| <b>2. Professor A. C. Roy</b>              | <b>1<sup>st</sup> June, 1966 to 31<sup>st</sup> May, 1970</b>           |
| <b>3. Professor P. C. Mukherjee</b>        | <b>1<sup>st</sup> June, 1970 to 7<sup>th</sup> November, 1974</b>       |
| <b>4. Professor A. Dutta</b>               | <b>8<sup>th</sup> Nov., 1974 to 18<sup>th</sup> April, 1977</b>         |
| <b>5. Professor P. K. Ghosh</b>            | <b>21<sup>st</sup> Nov., 1977 to 18<sup>th</sup> April, 1982</b>        |
| <b>6. Professor S. N. Sen (Acting)</b>     | <b>19<sup>th</sup> April, 1982 to 9<sup>th</sup> Sept., 1982</b>        |
| <b>7. Professor D. B. Dutta</b>            | <b>15<sup>th</sup> Sept., 1982 to 31<sup>st</sup> August, 1988</b>      |
| <b>8. Professor K.N. Chatterjee</b>        | <b>1<sup>st</sup> Sept., 1988 to 31<sup>st</sup> Dec., 1995</b>         |
| <b>9. Professor R. G. Mukherjee</b>        | <b>1<sup>st</sup> Jan., 1996 to 31<sup>st</sup> Dec., 1999</b>          |
| <b>10. Professor P. K. Saha</b>            | <b>1<sup>st</sup> Jan., 2000 to 31<sup>st</sup> Dec, 2007</b>           |
| <b>11. Professor A. Basumajumdar</b>       | <b>1<sup>st</sup> Jan., 2008 to 31<sup>st</sup> March, 2012</b>         |
| <b>12. Professor Samir Kumar Das</b>       | <b>1<sup>st</sup> April., 2012 to 10<sup>th</sup> February, 2014</b>    |
| <b>13. Professor Somnath Ghosh</b>         | <b>11<sup>th</sup> February, 2014 to 10<sup>th</sup> February, 2018</b> |
| <b>14. Professor Subires Bhattacharyya</b> | <b>22<sup>nd</sup> February, 2018 continue..</b>                        |



## ABBREVIATIONS

|          |  |
|----------|--|
| ACL      | Arts, Commerce and Law                               |
| AICTE    | All India Council for Technical Education            |
| API      | Academic Performance Index                           |
| AQAR     | Annual Quality Assurance Report                      |
| BA       | Bachelor of Arts                                     |
| B. Pharm | Bachelor of Pharmacy                                 |
| B. Sc.   | Bachelor of Science                                  |
| B. Tech  | Bachelor of Technology                               |
| BET      | Biotechnology Eligibility Test                       |
| BLIS     | Bachelor of Library and Information Science          |
| BSR      | Basic Scientific Research                            |
| CACE     | Centre for Adult Continuing Education                |
| CAS      | Career Advancement Scheme                            |
| CBCS     | Choice Based Credit System                           |
| CIRM     | Centre for Information & Resource Management         |
| COVID    | Coronavirus Disease                                  |
| CRSI     | Chemical Research Society of India                   |
| CSIR     | Council of Scientific and Industrial Research        |
| DBT      | Department of Biotechnology                          |
| DRDO     | Defence Research and Development Organisation        |
| DRS      | Departmental Research Support                        |
| DST      | Department of Science & Technology                   |
| DSTBT    | Department of Science & Technology and Biotechnology |
| FIST     | Fund for Improvement of S&T Infrastructure           |
| FRSC     | Fellow of the Royal Society of Chemistry             |
| Gen      | General Category                                     |
| GIS      | Geographic information System                        |
| GoI      | Government of India                                  |
| GoWB     | Government of West Bengal                            |

|          |  |
|----------|--|
| HRDC     | Human Resource Development Centre                      |
| ICAR     | Indian Council for Agricultural Research               |
| ICMR     | Indian Council of Medical Research                     |
| ICPR     | Indian Council of Philosophical Research               |
| IEC      | Information, Education and Communication               |
| IIIT     | Indian Institute of Information Technology             |
| IIT      | Indian Institute of Technology                         |
| INSPIRE  | Innovation in Science Pursuit for Inspired Research    |
| IQAC     | Internal Quality Assurance Cell                        |
| ISBN     | International Standard Book Number                     |
| ISSN     | International Standard Serial Number                   |
| JRF      | Junior Research Fellowship                             |
| LLB      | Bachelor of Laws                                       |
| LLM      | Master of Laws   |
| M. Com   | Master of Commerce                                     |
| M. Pharm | Master of Pharmacy                                     |
| M. Tech  | Master of Technology                                   |
| MA       | Master of Arts   |
| MANF     | Maulana Azad National Fellowship for Minority Students |
| MBA      | Master of Business Administration                      |
| MCA      | Master of Computer Applications                        |
| MLIS     | Master of Library and Information Science              |
| MPhil    | Master of Philosophy                                   |
| MSc      | Master of Science                                      |
| NAAC     | National Assessment and Accreditation Council          |
| NBHM     | National Board for Higher Mathematics                  |
| NBU      | University of North Bengal                             |
| NET      | National Eligibility Test                              |
| NFED     | National Foundation for Entrepreneurship Development   |
| NFOBC    | National Fellowship for Other Backward Classes         |
| NFSC     | National Fellowship for Scheduled Caste                |

|       |  |
|-------|--|
| NIRF  | National Institute Ranking Framework                       |
| NSS   | National Service Scheme                                    |
| NTRF  | National Tea Research Foundation                           |
| OBC   | Other Backward Classes                                     |
| OP    | Orientation Program  |
| PG    | Post Graduate  |
| PGDBI | Post Graduate Diploma in Bioinformatics                    |
| PGDTM | Post Graduate Diploma in Tea Management                    |
| PhD   | Doctor of Philosophy                                       |
| PI    | Principal Investigator                                     |
| PURSE | Promotion of University Research and Scientific Excellence |
| RC    | Refresher Course   |
| RGNF  | Rajiv Gandhi National Fellowship                           |
| RUSA  | Rashtriya Uchchatar Shiksha Abhiyan                        |
| SACT  | State Aided College Teacher                                |
| SAP   | Special Assistance Program                                 |
| SC    | Scheduled Caste  |
| SEM   | Scanning Electron Microscope                               |
| SERB  | Science & Engineering Research Board                       |
| SRF   | Senior Research Fellowship                                 |
| ST    | Scheduled Tribe  |
| SVMCM | Swami Vivekananda Merit-cum-Means Scholarship              |
| UG    | Under Graduate   |
| UGC   | University Grants Commission                               |
| UPSC  | Union Public Service Commission                            |
| USIC  | University Science Instrumentation Centre                  |
| WBCSC | West Bengal College Service Commission                     |
| WBPCB | West Bengal Pollution Control Board                        |
| WBPSC | West Bengal Public Service Commission                      |





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# HIGHLIGHTS





# CAMPUS AT A GLANCE



*Camampus Map*



*Statue of Raja Ram Mohan Roy*



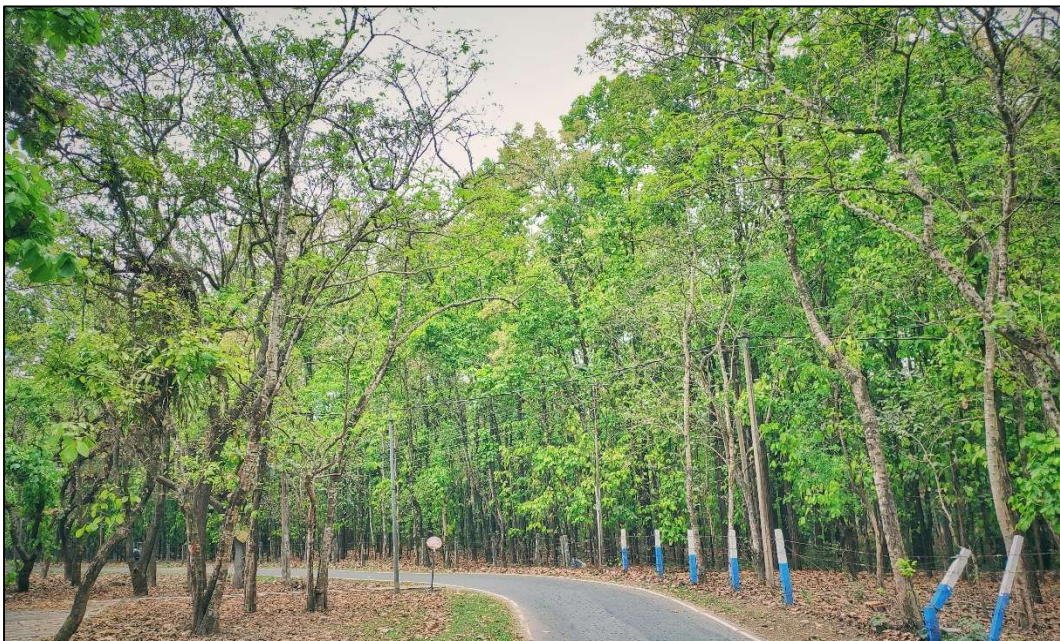
*Campus Road*



*Green Campus*



*Rubber Plantation*



*Sal Forest*



*Administrative Building*



*University Library*



*Akshaya Kumar Maitreya Heritage Museum*



*Health Centre*



*University Science Instrumentation Centre*



*Centre for Information & Resource Management (Erstwhile Computer Centre)*



*Indoor Sports Facility (Khela Ghar)*



*Sports Ground*





*Rabindra – Bhanu Manch (Auditorium)*



*Students' Canteen*



*Girls' Hostel*



*Boys' Hostel*

**Photo Curtsey:** Amit Dey, Office of the Development Officer

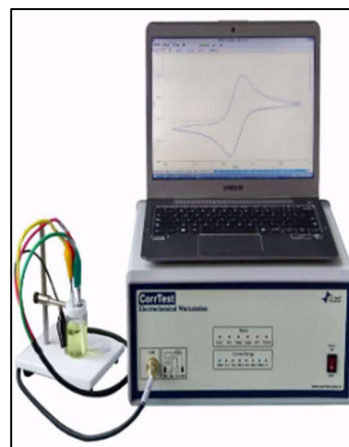
## RESEARCH INFRASTRUCTURE

Few of the sophisticated scientific instruments available in the University is given hereunder –

### Cyclic Voltammetry:

The cyclic voltammetry is used to gain the following information -

- whether a species is redox active;
- whether, and under what conditions, a species undergoes reversible or irreversible electron transfer and
- number of electrons involved in an electron transfer process



### Fluorimeter:

Fluorimeter is used to measure parameters of visible spectrum photoluminescence: its intensity and wavelength distribution of photoluminescence spectrum after excitation by a certain spectrum of light. These parameters are used to identify the presence and the amount of specific molecules in a medium.



### Fluorescence Microscope:

The Fluorescence Microscope is used for Single Cell Gel Electrophoresis.



### **Fourier-transform Infrared Spectroscopy:**

The FTIR is used to -

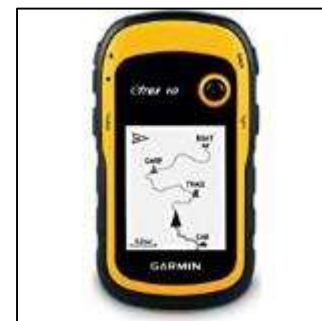
- Identify a chemical
- Identify chemical interactions between the functional groups of the components



### **Global Positioning System:**

The GPS is used to -

- Spatial information
- Altitude (amsl)
- Resource Mapping



### **High Performance Computing (HPC) Cluster System:**

The high performance computing cluster with 20 head nodes and 20 computing nodes at NBU is centrally used for high-end research works including simulations, sequence DNA, artificial intelligence (AI) algorithms, etc.



### **Inverted Phase Contrast Microscope:**

The Live Cell Imaging Technology is carried out by Inverted Phase Contrast Microscope and is used to observe the changes in the shapes, sizes, and structure during the growth of the cells under controlled condition in time dependent manner with or without dye/staining.



## High-Performance Thin-Layer Chromatography:

The HPTLC is used for -

- HPTLC Fingerprint of botanical origin samples in a photographic form.
- Identification and quantification of marker compounds in sample.



## Kjeldahl Apparatus:

Kjeldahl Nitrogen Determination Digestion and Distillation Apparatus



### Liquid Nitrogen Plant:

Liquid Nitrogen is used in many applications because of its very low temperature and low reactivity. Some of the common applications are:

- Serves as a source of an extremely dry gas
- Freezing and transporting of food products
- Cooling of superconductors
- Protects materials from oxidization.
- The shielding of materials from oxygen exposure



### Mirror Stereoscope:

The Mirror Stereoscope is used for –

- Identification and mapping of physical and cultural features
- Determination of object height
- Delineation of Reservoir boundary
- Delineation of new Road and Railway tract.



### Nuclear Magnetic Resonance (NMR) Spectrometer:

The Nuclear Magnetic Resonance (NMR) spectroscopy is arguably the most valuable technique, with its applications ranging from medicinal, agricultural, forensic science to structural chemistry and biology, from food technology, biomedical imaging to material science i.e. a wide spectrum of applicability.



## Scanning Electron Microscope

SEM is used in a variety of research applications, like

- Study of the surface morphology of a material
- Quality control and failure analysis.
- Investigations into nanotubes and nanofibers, high temperature superconductors, mesoporous architectures and alloy strength
- Comparing blood and tissue samples in determining the cause of illness and measuring the effects of treatments on patients

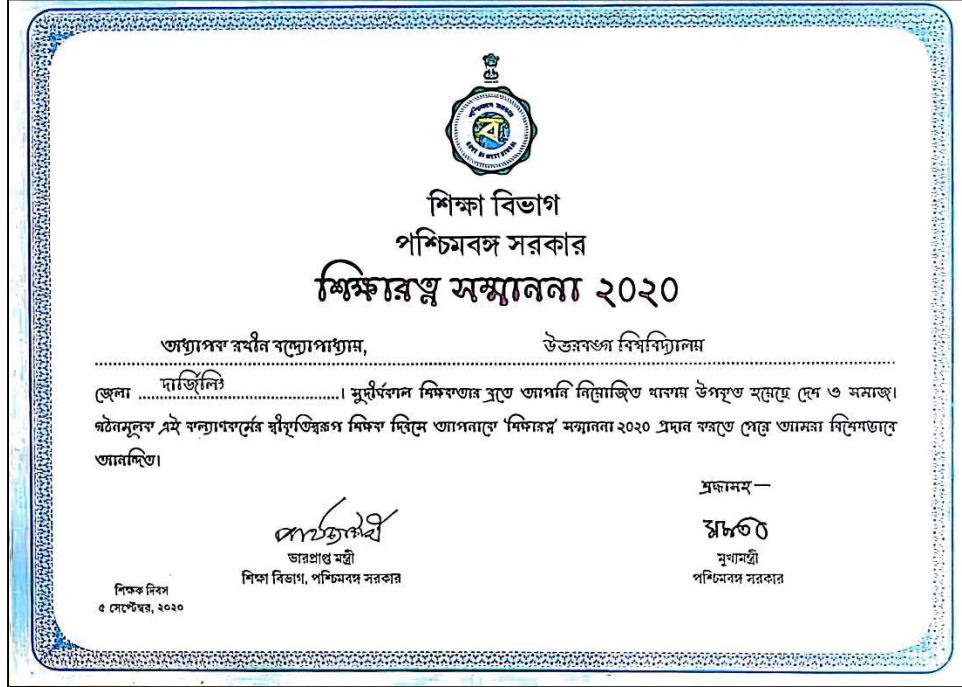


## UV-VIS Spectrophotometer:

UV-VIS Spectrophotometer is used to analyse bacterial culture, Protein, Enzyme Kinetics, Beverage, Pharmaceutical, Nucleic Acid detection and estimation etc.



## AWARDS AND RECOGNITIONS



*Prof. Rathin Bandopadhyay, Department of Law has received prestigious Siksharatna Award 2020 from the Govt. of West Bengal on 5<sup>th</sup> September, 2020*



*Prof. Kantilal Das, Department of Philosophy has received prestigious Siksharatna Award 2020 from the Govt. of West Bengal on 5<sup>th</sup> September, 2020*





This is to certify that

**Dr. Bikash Chandra Paul**

*has been elected a Fellow of the  
Royal Astronomical Society*

and is entitled to use the designatory letters FRAS

President

A handwritten signature in blue ink, likely belonging to the President of the Royal Astronomical Society.

Date of Election

9 Oct 2020

Membership Number

10533

Incorporated by Royal Charter 1831 • Registered Charity no. 226545



*Prof. Bikash Chandra Paul, Department of Physics has received Fellow of Royal Astronomical Society (FRAS) London, UK on 9<sup>th</sup> October, 2020*

## EXECUTIVE SUMMARY OF THE REPORT

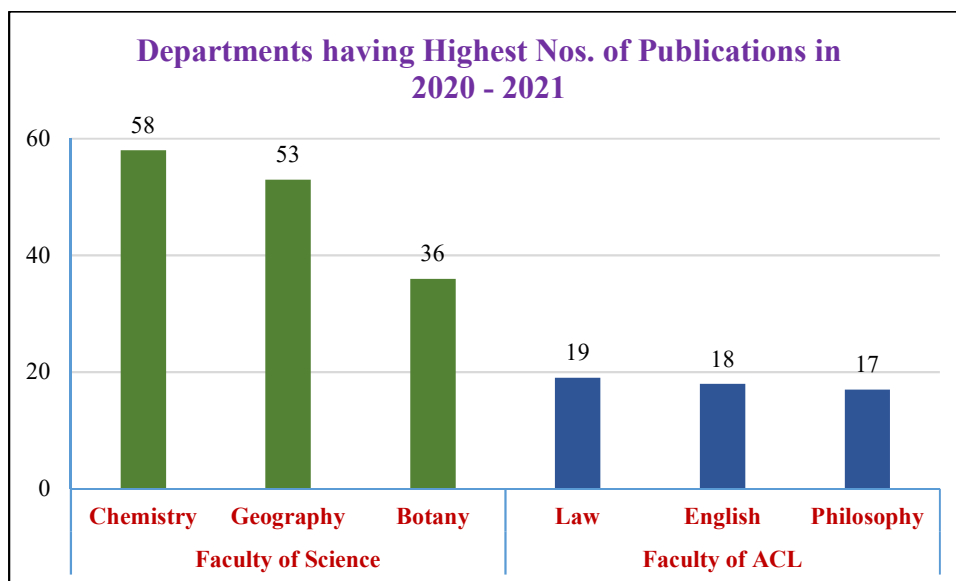
The University of North Bengal was established in 1962 with an objective of imparting higher education and research to the people of the northern part of West Bengal. Over the time, the University has grown in its dimension and has become preferred educational institution in this part of the country. Through its glorious journey of 60 years in providing quality but affordable education for inclusive intellectual growth of the region, the University has made judicious expansion in advanced, non-conventional, applied and job-oriented fields keeping the quality of education at par with global standards.

The financial year 2020 – 21 has been very tough for the entire world as every nation has been impacted by COVID 19 virus, making it a true pandemic disease. To contain the spread of the diseases measures like lockdown, social distancing, etc. have been implemented, which affected the normal education system in the entire world. As a result, new system of teaching-learning has been evolved where virtual classes, meetings, seminars & conferences have been held.

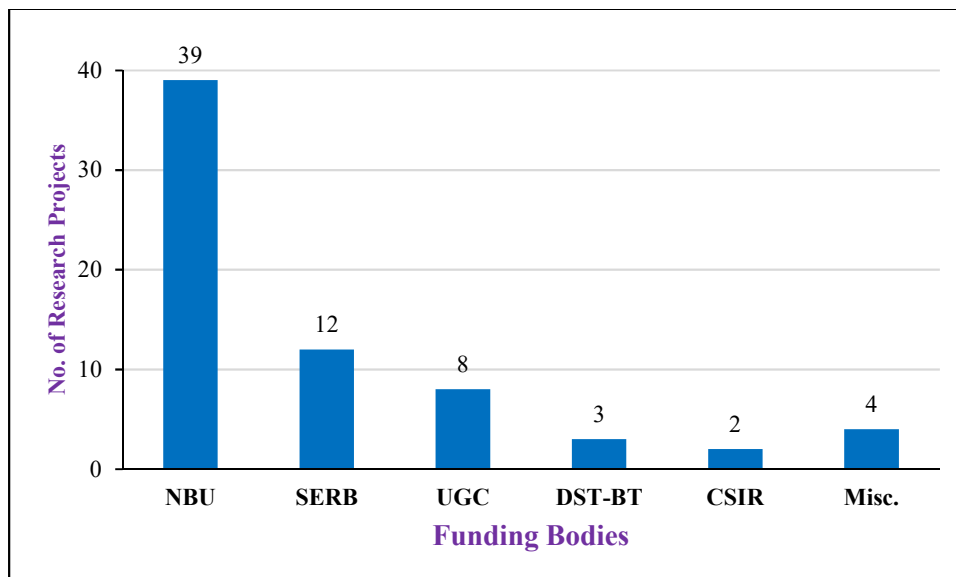
In order to continue the teaching-learning process, the University of North Bengal has been prompt in adopting new techniques of knowledge dissemination. Despite of all the bottlenecks arisen out of COVID 19, the activities of the University has still been eventful in 2020 – 21. The major events of the Annual Report 2020 – 21 are highlighted below –

- The University has thirty-two Academic Departments and two Centers covering all the major courses in Science, Arts, Commerce, Law and Management
- In addition to the research activities carried out by the academic Departments, five additional and dedicated Research Centers carry out innovative research in the field of expertise
- A total of ninety-three courses are being offered presently by the University –
  - UG            4 courses
  - PG            35 courses
  - M. Phil      22 courses
  - Ph. D.       30 courses
  - Diploma    2 courses
- The University also extends nine courses through Open and Distance Learning mode
- Fifty number of colleges from six different districts of North Bengal are presently affiliated under the University and offer forty-nine courses.
- The strength of existing students in the affiliated colleges is 1,10,837, which is 1.3% higher than total number of students studied in 2019-20.

- A total of 48,176 students have been taken admission in the affiliated colleges in 2020 – 21 out of which 54% are female and 46% are male.
- There have been 582 students in all semesters of UG courses run by the University with a male female ratio of 47:53
- A total of 1731 number of students have taken admission in various Departments of the university in PG level in 2020 - 21, including 468 number of students in Science and 1263 number of students in Arts, Commerce and Law (ACL)
- The male to female ratios of newly admitted students are 46:54 and 35:65 in science and ACL respectively
- Out of total 3000 students studying in PG (Semester I and Semester III) in 2020 - 21, 1897 students belong to reserved category
- A total of 40 students have enrolled for Ph. D. programs in various Departments of the University; 19 under Faculty of Science and 21 under Faculty of Arts, Commerce and Law
- A total of 50 seminars/conferences/webinars/workshops/special lectures have been organized by the University for knowledge dissemination
- Teachers of the University have presented papers and/or delivered invited lectures and or participated in conference/seminar/webinar in 359 occasions.
- Research scholars have participated in conference/seminar/webinar in 182 occasions
- 452 numbers of research publications in journals/books have been made by the University in 2020 – 21. Out of total publications, the top three performing Departments with number of publications separately for Faculty of Science and Faculty of ACL are given below –



- 68 numbers of research projects have been undertaken by various Departments of the University. The funding body of such projects are given below –



- Prof. Rathin Bandopadhyay, Department of Law and Prof. Kantilal Das, Department of Philosophy have received prestigious Siksha Ratna Award 2020 from the Department of Higher Education, Govt. of West Bengal
- UGC-HRD, NBU has conducted 8 Nos. of Refresher Courses, and 3 Nos. of Short-term Courses and 4 Nos. of Faculty Induction Programs
- CIRM has provided seamless IT, networking and related technical services to continue virtual teaching-learning process
- The Engineering Branch has handled a total of 16 construction/face-lifting projects amounting about Rs. 27.4 crore
- Office of the Development Officer has processed 267 numbers of fellowships for the research scholars
- The Health Centre has provided special assistance, including Safe Home, Nursing, Oxygen, etc. to combat COVID infection in addition to its regular duties
- The Estate Division Branch, Sanitary Section and Watch & Ward have served the University during the pandemic for maintaining cleanliness, hygiene and safety & security of the campus



**CHAPTER – I**  
**ADMINISTRATIVE PROFILE**



## A. General Information

### About the University

The University of North Bengal was established by an Act of the Legislature of West Bengal in 1962 with the mission “*to encourage and provide for instruction for teaching, training and research in various branches of learning and course of study; to promote advancement and dissemination of knowledge and learning and to extend higher education to meet the growing needs of society.*”

Situated at the foothills of high Himalaya and in close proximity of vast plains, the University, since its inception in 1962, has been fulfilling the objectives of imparting higher education and research to the people of this socio-economically backward area of the country. With the global advancement and requirements in the arena of higher education and research, the University has shouldered the responsibility of dissemination of knowledge by judicious expansion of its role in advanced, non-conventional, applied and job-oriented fields keeping the quality of education at par with global standards at low cost.

To extend the University services to the people for easy access to higher education, the University has three campuses; main campus, Jalpaiguri campus and Kolkata campus. The main campus of the University at Raja Rammohunpur covers an area of nearly 315.99 acres with lush green nature all around the administrative and academic Departments. The pollution free atmosphere in addition to the state-of-the-art facilities in the University provide one of the best educational infrastructure in this part of the country. Fascinating glimpse of the Kanchenjunga peak from the campus along with in-campus tea gardens and forest are treat to the eyes of the visitors.

The University is the house for thirty-four academic Departments and six research Centers covering all the major courses in Science, Arts, Commerce, Law and Management. A total of ninety-four courses are being offered presently by the University covering UG, PG, M. Phil, Ph. D and Diploma courses. Fifty number of colleges from six different districts of North Bengal are presently affiliated under the University and offer forty-nine courses. The University also extends nine courses through Open and Distance Learning mode.

In order to widen the dimension and scope of Higher Education and Research through modern studies and to extend easier access to higher education by the people of Jalpaiguri region, the Jalpaiguri campus of the University was opened in 2013. The Jalpaiguri campus of the University has a sprawling campus spread over 36 acres of land at Jalpaiguri. At present there are three buildings at the Jalpaiguri campus i.e. Science building, Arts building and Technology building. There are four Departments offering post graduate program in Bengali, English, Sanskrit and Geography & Applied Geography.

The University has also a campus in Salt Lake, Kolkata having G-4 buildings and it is the principal liaison office of the Vice-Chancellor. The Kolkata campus has arrangement of Meetings Rooms, Interview Rooms and Conference Rooms along Guest House facilities. In view of the fact that the



location of North Bengal University is nearly 600 km off Kolkata, this Guest House cum Administrative campus immensely helps the stakeholders of the University. As a part of fraternal support services, this campus also supports the newly upcoming universities by lending some parts of the infrastructures of Kolkata office in the interest of higher education of West Bengal in general and North Bengal Region in particular.

## **Distinctiveness**

In the year of inception, University of North Bengal was the only University which affiliated all the colleges in the northern districts of West Bengal, including Jalpaiguri Engineering College and North Bengal Medical College. The colleges of the state of Sikkim were also affiliated to the University of North Bengal. With time, the number of affiliated colleges were gradually reduced with establishment of more universities in North Bengal and Sikkim.

Even though the spread of the University has been shrunk over time, the University still retained its distinctiveness in accommodating the ethno-cultural and geospatial uniqueness of the region. The University has the highest number of Scheduled Tribe (ST) students in the region drawn both from the hills and the plains reflecting wide ethno-cultural diversity. This diversity is encouraged and nurtured through one of a kind Museum, the A.K.M.H. Museum which had a humble beginning in 1965, and can now legitimately take pride in its substantial collection of stone and metal images, terracotta works, coins, manuscripts etc. Major portion of such collections belong to the period between 8<sup>th</sup> Century and 12<sup>th</sup> Century through even older pieces are also in the possession of the Museum. The Museum at present has emerged as one of the favored destinations of scholars, researchers and students, even from foreign countries.

Apart from ethno-cultural distinctiveness, few unique courses are also run by the University for preservation and promotion of regional resources. The Centre for Studies in Local Languages and Cultures of the University has made significant service to the promotion and preservation of cultural heritage of the region. The geospatial uniqueness is captured through the Department of Tea Science offering M. Sc. in Tea Science in collaboration with the Tea Board of India. Darjeeling is globally famous for tea and this Department is the only of its kind in India. The location of this University is in a region which shares borders with Bangladesh, Bhutan and Nepal, and China is not distant. Keeping this geostrategic aspect in attention the Center for Himalayan Studies undertakes research in the eastern Himalayan region and offers programs in Strategic Studies.

## **Vision and Mission**

### **Vision**

- To encourage and provide a congenial space of higher education, in particular to the socially and economically backward students, in the form of instruction, teaching, training

and research in various branches of knowledge and to meet the growing needs of this region as the highest temple of learning.

- To commit to foster education on the basis of democratic values and ethos.
- With the passage of time along with its enriched capacity structure as a competitive University of national repute, University of North Bengal envisions a global centered education system with a commitment to be a part of knowledge society and to provide quality based education to all.

### **Mission**

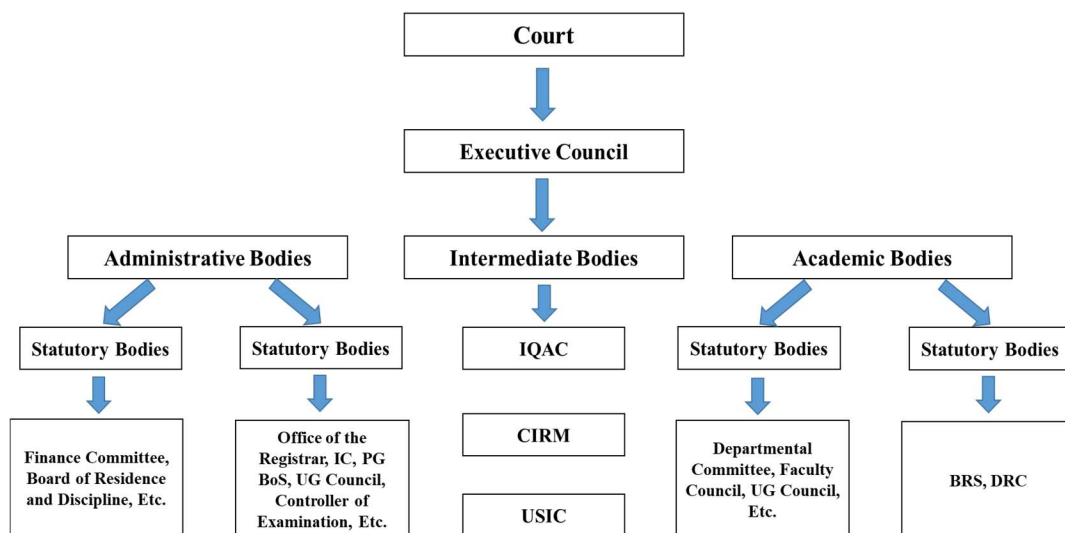
- To establish a large, well-resourced vibrant multi-disciplinary teaching and research institutions by way of collaboration of teachers, research scholars, students, academic administrators and employees.
- To enrich a strong educational communities and to play a catalytic role to provide high quality education in this disadvantageous geography.
- The University envisages a broad based liberal post graduate education with rigorous specialization in chosen disciplines and to provide optimal learning environment students support services.
- To develop capable faculty and students who shall be energized and engaged so that they can become hearts of higher education in the region. The University is committed to make all its stakeholders as drivers of demand driven educational changes in national and international field.
- Finally, the University seeks to inculcate environmental awareness and sense of urgency of conservation of nature creating pollution free green campus by encouraging sustainable practices.

## B. Governance

### Governance Organogram

The University has a participative administrative structure with decentralization and strong leadership geared to accomplish excellence in teaching and learning environment, research and extension, and social outreach. The participatory management structure is reflected in the composition of its statutory bodies, the University Court, Executive Council, Faculty Councils for Science and Arts, Commerce and Law, UG Council, Finance Committee, Departmental Committees, Library Committee, Board of Residence and Discipline, Board of Health and Students' Welfare, the Governing Bodies of affiliated colleges, all of which include representatives of concerned stakeholders. There are functional non-statutory bodies like Board of Research Studies, Departmental Research Committees, Internal Quality Assurance Cell (IQAC), and so on. All research proposals approved by the DRCs are registered through the Boards of Research Studies. Direct recruitment of teachers and CAS of teachers, officers and non-teaching staff are overseen by the IQAC, which also is responsible for undertaking quality initiatives for overall academic and administrative excellence of the University.

The statutory bodies are properly linked with one another. The Departmental Committees send members to UG and PG Boards of Studies which formulate curricula and recommend panels of paper setters, examiners, moderators, etc. All curricula formulated by the UG Boards of Studies and PG Boards of Studies are considered and approved by the respective Councils; UG and PG. The minutes and proceedings of the UG and PG Boards of Studies as well as the Boards of Research Studies are considered and approved by the Executive Council. All Diplomas, UG, PG, Ph. D., D. Lit. and D. Sc. are conferred by the highest body of the University, the Court.



***Governance Organogram***

Administrative decentralization and participatory management is incomplete without financial devolution. The finance rules of the University allow financial sanctioning power to all heads of

the Department up to Rs. 10,000 per day, and with a committee resolution, Rs. 20,000 per day. All expenditure by a particular body must be according to the annual budgetary allocation, which is formulated on the basis of budget proposals through budget meeting duly approved by the Executive Council and the Court. The annual accounts are audited both internally and by the external statutory audit bodies.

Various bodies and facilities cater to the needs of the University community, teachers, officers, staff, and other stakeholders. There are the University's Sports Board, Health Centre, Watch and Ward Office, Office of the Engineer, Estate Office, and so on, to fulfil various responsibilities towards and social needs of the stakeholders. All these operate following rules framed by the Executive Council and under the direct command and supervision of the Vice-Chancellor.

The Establishment Section of the Office of the Registrar manages students' registration data and facilitates scholarships, fellowships, etc. The Office of the Registrar is the nodal office of the University for all service records of the employees and the certifying authority for the members of the University community.

The Board of Residence supervises the records of the hostel inmates. Other facilities like ICC, Anti-Ragging Cell and Counselling Centre cater to the security and wellbeing of the learners.

## **Chancellor**

As required under section 8(1) of the North Bengal University Act, the Governor, by virtue of his office, is the Chancellor of the University. Shri Jagdeep Dhankhar, Governor of West Bengal has been holding the Office of the Chancellor of the University since 30<sup>th</sup> July, 2019.

## **Vice-Chancellor:**

Professor (Dr.) Subires Bhattacharyya joined his Office as Vice-Chancellor of University of North Bengal on 22<sup>nd</sup> February, 2018 and is continuing his office.

## **Deans:**

### ***Faculty Council for P.G. Studies in Science***

Prof. Bikash Chandra Paul joined his office as Dean of the Faculty of Science with effect from 19.07.2017 and continued till 22.02.2021. Prof. (Dr.) Subhas Ch. Roy joined as Dean of the Faculty of Science on 23.02.2021 and is continuing his office.

### ***Faculty Council for P.G. Studies in Arts, Commerce & Law***

Prof. Sanchari Roy Mukherjee joined her office as Dean of the Faculty of Arts, Commerce & Law with effect from 19.07.2017 and is continued till 22.02.2021. Prof. Rathin Bandopadhyay joined as Dean of the Faculty of Arts, Commerce & Law on 23.02.2021 and is continuing his office

## C. Apex Bodies and Members

### The Court

The Court is the apex body of the University and has the following powers and functions:

- To review from time to time, the broad policies and programs of the University and to suggest measures for the improvement and development of the University.
- To consider and pass resolutions on the annual report, audit reports and the annual accounts of the University.
- To perform such other functions as may be prescribed by the Statues.

The list of the Court members is given below –

- |         |  |         |  |
|---------|--|---------|--|
| i       | The Chancellor<br>University of North Bengal<br>Raj Bhavan, Kolkata  | ii      | Dr. Subires Bhattacharyya<br>Vice Chancellor<br>University of North Bengal   |
| iii (a) | Prof. Bikash Chandra Paul<br>Dean, Faculty Council for PG Studies in<br>Science<br>Department of Physics<br>University of North Bengal | iii (b) | Prof. Sanchari Roy Mukherjee<br>Dean, Faculty Council for PG Studies<br>in Arts, Commerce & Law<br>Department of Economics<br>University of North Bengal |

### Nominee of Higher Education Department, WB

- |      |  |     |  |
|------|--|-----|--|
| iv   | Shri Siladitya Basu Ray, WBCS (Exe.)<br>Special Secretary<br>Higher Education Department<br>Bikash Bhavan, Kolkata- 91 | v   | The Principal Secretary<br>Department of Finance<br>Govt. of West Bengal<br>NABANNA, Shibpur<br>Howrah-711102                          |
| vi   | Chairman,<br>West Bengal State Council of Higher<br>Education<br>147-A Rashbehari Avenue, Kolkata - 29                 | vii | President<br>West Bengal Council for Higher<br>Secondary Education<br>Vidyasagar Bhaban, Block-DJ,<br>Sector-II, Salt Lake, Kolkata-91 |
| viii | President<br>West Bengal Board of Madrasah Education<br>Begum Rokaiya Bhaban<br>19, Haji Md. Mahasin Square,           | ix  | President<br>West Bengal Board of Secondary<br>Education<br>77/2 Park Street, Kolkata-700016   |

Kolkata-700016

- ix The Director of Public Instruction  
Govt. of West Bengal  
Education Directorate  
Bikash Bhavan, Salt Lake, Kolkata - 91

**Nominee of UGC**

- xi Dr. Mrs. Paula Banerjee  
Department of South & South Asian Studies  
Calcutta University  
Kolkata-700027

- xii Chairman,  
National Council for Teachers' Education  
G-7, Sector-10, Dwarka, Delhi-110075

- xiii Chairman  
West Bengal College Service Commission  
Purta Bhavan, DF Block, 3rd Floor  
Salt Lake City, Kolkata - 700091

- xiv (a) The Head,  
Department of Anthropology  
University of North Bengal

- xiv (b) The Head,  
Department of Bengali  
University of North Bengal

- xiv (c) The Head,  
Department of Bio-technology  
University of North Bengal

- xiv (d) The Head,  
Department of Botany  
University of North Bengal

- xiv (e) The Head,  
Department of Chemistry  
University of North Bengal

- xiv (f) The Head,  
Department of Commerce  
University of North Bengal

- xiv (g) The Head,  
Department of Computer Science &  
Application  
University of North Bengal

- xiv (h) The Head,  
Department of Economics  
University of North Bengal

|         |  |         |   |
|---------|--|---------|---|
| xiv (i) | The Head,<br>Department of English<br>University of North Bengal                           | xiv (j) | The Head,<br>Department of Geography &<br>Applied Geography<br>University of North Bengal |
| xiv (k) | The Head,<br>Department of Hindi<br>University of North Bengal                             | xiv (l) | The Head,<br>Department of History<br>University of North Bengal                          |
| xiv (m) | The Head,<br>Department of Law<br>University of North Bengal                               | xiv (n) | The Head,<br>Department of Library &<br>Information Science<br>University of North Bengal |
| xiv (o) | The Head,<br>Department of Life Long Learning<br>& Extension<br>University of North Bengal | xiv (p) | The Head,<br>Department of Management<br>University of North Bengal                       |
| xiv (q) | The Head,<br>Department of Mass<br>Communication<br>University of North Bengal             | xiv (r) | The Head,<br>Department of Mathematics<br>University of North Bengal                      |
| xiv (s) | The Head,<br>Department of Microbiology<br>University of North Bengal                      | xiv (t) | The Head,<br>Department of Nepali<br>University of North Bengal                           |
| xiv (u) | The Head,<br>Department of Philosophy<br>University of North Bengal                        | xiv (v) | The Head,<br>Department of Physics<br>University of North Bengal                          |
| xiv (w) | The Head,<br>Department of Political Science<br>University of North Bengal                 | xiv (x) | The Head,<br>Department of Sociology<br>University of North Bengal                        |
| xiv (y) | The Head,<br>Department of Zoology<br>University of North Bengal                           | xiv (z) | The Head,<br>Department of Tea Science<br>University of North Bengal                      |

xiv (aa) The Head,  
Department of Education  
University of North Bengal

xiv (ab) The Head,  
Department of Food Technology  
University of North Bengal

xiv (ac) The Head,  
Department of Pharmaceutical  
University of North Bengal

xiv (ad) The Head,  
Department of Geology  
University of North Bengal

xiv (ae) The Head,  
Department of Sanskrit  
University of North Bengal

xiv (af) The Head,  
Department of Bio-informatics  
University of North Bengal

#### **Five Senior-most Professor of the University**

xv (a) Prof. Subir Sarkar  
Department of Geography &  
Applied Geography

xv (b) Prof. Bijoy Kr. Sarkar  
Department of History

xv (c) Prof. Gangotri Chakraborty  
Department of Law

xv (d) Prof. Suparna De Sarkar  
Department of Mathematics

xv (e) Prof. Ghanshyam Nepal  
Department of Nepali

#### **Principal of Affiliated Colleges**

xvi (a) Principal  
University B.T. & Evening College  
P.O & Dist - Cooch Behar

xvi (b) Principal  
Indian Institute of Legal Studies  
P.O- Salbari, Dist- Darjeeling

xvi (c) Vacant

xvi (d) Principal  
South Field College  
Dist- Darjeeling

xvi (e) Principal  
APC Roy Govt. College  
Dist- Darjeeling

xvi (f) Principal  
Nakshalbari College  
Dist- Darjeeling



xvi (g) Principal  
P.D. Women's College  
P.O & Dist- Jalpaiguri

xvi (h) Principal  
Siliguri College  
Dist.- Darjeeling

xvi (i) Principal  
A.C. College  
P.O & Dist- Jalpaiguri,

xvi (j) Principal  
Maynaguri College  
Dist – Jalpaiguri

#### **Five Teachers of UG Council**

xvii Vacant

#### **One Representative of Officer**

xviii Vacant

#### **Two Representatives of Non-Teaching Employees**

xix Vacant

#### **Chancellor's Nominee**

xx (a) Prof. Col. Dr. Ranajit Sen,  
58/24, Prince Anwar Shah Road,  
Lake Gardens, Kolkata-700045

xx (b) Prof. Dipak Kr. Kar,  
Vice-Chancellor  
Sidho Kanho Birsha University  
Dist- Purulia,

xx (c) Prof. Swagata Sen  
Vice-Chancellor  
Gour Banga University  
Dist – Malda

xx (d) Dr. Mrs. Philomena Richards,  
Professor & Head of Department of  
Sociology,  
Christ Church P.G. College  
Kanpur -208013, UP

xx (e) Prof. Alok K. Srivastava,  
Department of Chemistry,  
Allahabad University

#### **Special Invitee**

xxi Vacant

## **The Executive Council (EC)**

The Executive Council (EC) is the principal executive body of the University and has the power of management and administration of the revenue and property of the University and the conduct of all administrative affairs of the University.

The list of members of the Executive Council is –

- |     |  |    |   |
|-----|--|----|---|
| i   | Dr. Subires Bhattacharyya<br>Vice- Chancellor<br>University of North Bengal  | ii | Shri. Siladitya Basu Ray WBCS (Exe.)<br>Special Secretary<br>Higher Education Department<br>Bikash Bhavan, 6 <sup>th</sup> floor<br>Bidhan Nagar, Kolkata- 91 |
| iii | The Principal Secretary<br>Department of Finance<br>Govt. of West Bengal<br>Nabanna, 325, Sarat Chatterjee Road<br>Howrah – 711102 | iv | Chairman,<br>West Bengal State Council of Higher<br>Education<br>147-A Rashbehari Avenue<br>Kolkata - 700029  |
| v   | The Director of Public Instruction<br>Education Directorate<br>Govt. of West Bengal<br>Bikash Bhawan<br>Salt Lake, Kolkata- 91     | vi | Prof. Bikash Chandra Paul<br>Dean, Faculty Council for P.G. Studies<br>in Science<br>University of North Bengal   |
| vii | Prof. Sanchari Roy Mukherjee<br>Dean, Faculty Council for P.G. Studies in<br>Arts, Commerce & Law<br>University of North Bengal    |    |   |

## **Principal of Affiliated College**

- |          |  |          |  |
|----------|--|----------|--|
| viii (a) | Principal<br>University B.T.& Evening College<br>P.O & Dist- Cooch Behar | viii (b) | Principal<br>Indian Institute of Legal Studies<br>P.O- Salbari, Dist- Darjeeling |
| viii (c) | Principal<br>Siliguri College<br>P.O- Siliguri, Dist- Darjeeling         | viii (d) | Principal<br>P.D. Women's College<br>P.O & Dist- Jalpaiguri                      |

viii (e) Principal  
APC Roy Govt. College  
Himachal Bihar  
Matigara, Dist.- Darjeeling

viii (f) Principal  
Maynaguri College  
P.O- Maynaguri  
Dist- Jalpaiguri

viii (g) Principal  
Kalimpong College  
P.O & Dist- Kalimpong

### **Three Heads of the Department**

ix (a) Head  
Department of Physics  
University of North Bengal

ix (b) Head  
Department of Sociology  
University of North Bengal

ix (c) Head  
Department of Sanskrit  
University of North Bengal

### **Seven Teachers from the Faculty Council for PG Studies**

x Vacant

### **Five teachers of whom at least two shall belong to the rank of Associate Professor**

xi Vacant

### **Chancellor's Nominee**

xii (a) Prof. Subha Sankar Sarkar  
Vice- Chancellor  
Netaji Subhas Open University  
Kolkata- 700064

xii (b) Vacant

## Faculty Council for P.G. Studies in Science

Faculty Council for P.G. Studies in Science determines the policies related to the academic matters of the University of North Bengal. There are Fourteen Academic Departments under this Faculty Council. The office of the Secretary, Faculty Council for P.G. Studies in Science is also responsible for the enrollment of the students in every academic year in the P.G. courses in Science running under this Faculty Council.

### Details of Officer:

| Name               | Designation |
|--------------------|-------------|
| Dr. Joydeep Biswas | Secretary   |

### Details of Support Staff:

| Name                 | Designation        |
|----------------------|--------------------|
| Shri Mahashankar Jha | Jr. Superintendent |
| Shri Pratap Roy      | Group C            |
| Shri Jotirmoy Ghosh  | Group D            |

The Members of the Faculty Council for P.G. Studies in Science for 2020 -21 are –

|  |   |
|--|---|
| Dr. Subires Bhattacharyya, Hon'ble Vice-Chancellor, NBU  | Chairman                                    |
| Prof. Bikash Ch. Paul, Dean, Faculty Council for P.G. Studies in Science, NBU (till 22.02.2021)    | Vice -Chairman                              |
| Prof. Subhash Ch. Roy, Dean, Faculty Council for P.G. Studies in Science, NBU (23.02.2021 onwards) | Vice -Chairman                              |
| Prof. Nimai Chandra Saha, Vice-Chancellor, B.U.  | Nominee of the Hon'ble Vice-Chancellor, NBU |
| Head, Department of Physics, NBU   | Member                                      |
| Head, Department of Chemistry, NBU   | Member                                      |
| Head, Department of Mathematics, NBU   | Member                                      |
| Head, Department of Geography & Applied Geography, NBU   | Member                                      |
| Head, Department of Computer Science & Application, NBU  | Member                                      |
| Head, Department of Botany, NBU  | Member                                      |
| Head, Department of Zoology, NBU   | Member                                      |
| Head, Department of Microbiology, NBU  | Member                                      |
| Head, Department of Biotechnology, NBU   | Member                                      |
| Head, Department of Anthropology, NBU  | Member                                      |

|   |  |
|---|--|
| Head, Department of Geology, NBU  | Member                                       |
| Head, Department of Tea Science, NBU  | Member                                       |
| Head, Department of Food Technology, NBU  | Member                                       |
| Head, Department of Pharmaceutical Technology, NBU  | Member                                       |
| Head, Department of Bioinformatics, NBU   | Member                                       |
| Prof Bikash Ch. Paul, Department of Physics, NBU  | Member                                       |
| Prof. Amitabha Mukhopadhyay, Department of Physics, NBU   | Member                                       |
| Prof. Pradip Kr. Mandal, Department of Physics, NBU   | Member                                       |
| Prof. Malay Kr. Das, Department of Physics, NBU   | Member                                       |
| Prof. Mahendra Nath Roy, Department of Chemistry, NBU   | Member                                       |
| Prof. Pranab Ghosh, Department of Chemistry, NBU  | Member                                       |
| Prof. Anirban Misra, Department of Chemistry, NBU   | Member                                       |
| Prof. Biswajit Sinha, Department of Chemistry, NBU  | Member                                       |
| Prof. Bhaskar Biswas, Department of Chemistry, NBU  | Member                                       |
| Prof. Suparna De Sarkar, Department of Mathematics, NBU   | Member                                       |
| Prof. Manoranjan Singha, Department of Mathematics, NBU   | Member                                       |
| Prof. Subir Sarkar, Department of Geography & Applied Geography, NBU  | Member                                       |
| Prof. Sushma Rohatgi, Department of Geography & Applied Geography, NBU  | Member                                       |
| Prof. Deepak Kr. Mandal, Department of Geography & Applied Geography, NBU   | Member                                       |
| Prof. Ranjan Roy, Department of Geography & Applied Geography, NBU  | Member                                       |
| Prof. Aniruddha Saha, Department of Botany, NBU   | Member                                       |
| Prof. Arnab Sen, Department of Botany, NBU  | Member                                       |
| Prof. Subhas ch. Roy, Department of Botany, NBU   | Member                                       |
| Prof. Soumen Bhattacharjee, Department of Zoology, NBU  | Member                                       |
| Prof. Min Bahadur, Department of Zoology, NBU   | Member                                       |
| Prof. Ranadhir Chakraborty, Department of Biotechnology, NBU  | Member                                       |
| Prof. Jaydip Sen, Department of Anthropology, NBU   | Member                                       |
| The Registrar, NBU  | Invitee                                      |
| The Controller of Examinations, NBU   | Invitee                                      |
| Dr. Jhinuk Dasgupta, Department of Chemistry, Siliguri College, Siliguri  | Nominees of the Hon'ble Vice-Chancellor, NBU |
| Shri Dipayan Das, Research Scholar (NET JRF), Department of Botany, NBU-Nominee of the Hon'ble Vice-Chancellor, NBU | Nominees of the Hon'ble Vice-Chancellor, NBU |
| Shri Minaj Uddin Ahamed, P.G. Student, Department of Zoology, NBU-Nominee of the Hon'ble Vice-Chancellor, NBU       | Nominees of the Hon'ble Vice-Chancellor, NBU |

## Faculty Council for P.G. Studies in Arts, Commerce & Law

Faculty Council for P.G. Studies in Arts, Commerce & Law determines the policies related to the academic matters of the University of North Bengal. The office of the Secretary of Faculty Council for P.G. Studies in Arts, Commerce & Law executes the decisions or policies of the Faculty Council for Post-Graduate Studies. There are Eighteen Academic Departments under this Faculty Council. This office is also responsible for the enrollment of the students in every academic year in the P.G. courses and M.Phil. Programs in Arts, Commerce and Law running under this Faculty Council.

### Details of Officer:

| Name               | Designation       |
|--------------------|-------------------|
| Dr. Joydeep Biswas | Secretary (Addl.) |

### Details of Support Staff:

| Name                | Designation      |
|---------------------|------------------|
| Smt Alpana Dhar     | Sr. Assistant    |
| Shri Supratim Ghosh | Sr. Assistant    |
| Smt. Sita Chhetri   | Sr. Peon         |
| Shri Bapi Mondal    | Group C (Casual) |
| Shri Dilu Sharma    | Group D (Casual) |

List of the members of the Faculty Council for P.G. Studies in Arts, Commerce & Law for year 2020-2021

|  |   |
|--|---|
| Dr. Subires Bhattacharyya, Hon'ble Vice-Chancellor, NBU  | Chairman                                    |
| Prof. Sanchari Roy Mukherjee, Dean, Faculty Council for P.G. Studies in Arts, Commerce & Law, NBU (till 22.02.2021)  | Vice -Chairperson                           |
| Prof. Rathin Bhandopadhyay, Dean, Faculty Council for P.G. Studies in Arts, Commerce & Law, NBU (23.02.2021 onwards) | Vice-Chairperson                            |
| Prof. Ranjan Chakrabarti, Hon'ble Vice-Chancellor, VU  | Nominee of the Hon'ble Vice-Chancellor, NBU |
| Head, Department of Bengali, NBU   | Member                                      |
| Head, Department of Economics, NBU   | Member                                      |
| Head, Department of Philosophy, NBU  | Member                                      |
| Head, Department of History, NBU   | Member                                      |
| Head, Department of English, NBU   | Member                                      |
| Head, Department of Commerce, NBU  | Member                                      |
| Head, Department of Nepali, NBU  | Member                                      |

|   |        |
|---|--------|
| Head, Department of Hindi, NBU                                  | Member |
| Head, Department of Mass Communication, NBU                     | Member |
| Head, Department of Sociology, NBU                              | Member |
| Head, Department of Political Science, NBU                      | Member |
| Head, Department of Lifelong Learning & Extension, NBU          | Member |
| Head, Department of Law, NBU                                    | Member |
| Head, Department of Library & Information Science, NBU          | Member |
| Head, Department of Management, NBU                             | Member |
| The Director, Centre for Himalayan Studies, NBU                 | Member |
| The Head, Department of Education, NBU                          | Member |
| The Head, Department of Physical Education, NBU                 | Member |
| The Head, Department of Sanskrit, NBU Jalpaiguri Campus         | Member |
| Prof. Manjula Bera, Department of Bengali, NBU                  | Member |
| Prof. Nikhil Ch. Roy, Department of Bengali, NBU                | Member |
| Prof. Utpal Mandal, Department of Bengali, NBU                  | Member |
| Prof. Soumitra. De, Department of Political Science, NBU        | Member |
| Prof. Arun Kanti Jana, Department of Political Science, NBU     | Member |
| Prof. Ranjita Chakraborty, Department of Political Science, NBU | Member |
| Prof. Ashis Sengupta, Department of English, NBU                | Member |
| Prof. Bijoy Kr. Sarkar, Department of History, NBU              | Member |
| Prof. Sanchari Roy Mukherjee, Department of Economics, NBU      | Member |
| Prof. Anil Bhumali, Department of Economics, NBU [on Lien]      | Member |
| Prof. Kanak Kanti Bagchi, Department of Economics, NBU          | Member |
| Prof. Kantilal Das, Department of Philosophy, NBU               | Member |
| Prof. Jyotish Ch. Basak, Department of Philosophy, NBU          | Member |
| Prof. Debika Saha, Department of Philosophy, NBU                | Member |
| Prof. Palas Ranjan Sengupta, Department of Commerce, NBU        | Member |
| Prof. Indrajit Roy, Department of Commerce, NBU                 | Member |
| Prof. Samirendra Nath Dhar, Department of Commerce, NBU         | Member |
| Prof. Dipen Roy, Department of Commerce, NBU                    | Member |
| Prof. Debabrata Mitra, Department of Commerce, NBU              | Member |
| Prof. Sanjoy Kr. Roy, Department of Sociology, NBU              | Member |
| Prof. Saswati Biswas, Department of Sociology, NBU              | Member |
| Prof. Maitreyee Choudhury, Centre for Himalayan Studies, NBU    | Member |
| Prof. Karubaki Dutta, Centre for Himalayan Studies, NBU         | Member |
| Prof. Swatasiddha Sarkar, Centre for Himalayan Studies, NBU     | Member |
| Prof. Mohan Prasad Dahal, Department of Nepali, NBU             | Member |
| Prof. Ghanshyam Nepal, Department of Nepali, NBU                | Member |
| Prof. Sanjoy Rai, Department of Nepali, NBU                     | Member |

|   |  |
|---|--|
| Prof. Gangotri Chakraborty, Department of Law, NBU  | Member                                       |
| Prof. Rathin Bandopadhyay, Department of Law, NBU   | Member                                       |
| Prof. Manisha Jha, Department of Hindi, NBU   | Member                                       |
| The Librarian (Acting), NBU   | Member                                       |
| The Registrar, NBU  | Invitee                                      |
| The Controller of Examinations, NBU   | Invitee                                      |
| Dr. Rajib Bhowmik, Assistant Professor, Department of English, Alipurduar College, Alipurduar | Nominees of the Hon'ble Vice-Chancellor, NBU |
| Shri Badal Roy, Research Scholar, (RGNF), Department of Bengali, NBU                          | Nominees of the Hon'ble Vice-Chancellor, NBU |
| Shri Sisir Kumar Sinha, P.G. Student, Department of Bengali, NBU                              | Nominees of the Hon'ble Vice-Chancellor, NBU |

### **Council for Undergraduate Studies**

The Prime function of the Under Graduate Council, University North Bengal is to form a bridge between the University and its affiliating Colleges. The Office of the Secretary, Under Graduate Council strives continuously with the objective of helping all Colleges to improve its quality of Education. Through its various units like the Boards of Under Graduate Studies and numerous Expert Committees, the office has tried to accomplish a process based on inter activity, quality enhancing mechanism and has yielded appreciable results at the Under Graduate workplace under the University of North Bengal.

#### **Courses Offered under the Council:**

1. B.A. LL. B (Honours)
2. B.Sc. in Geology (Honours)
3. B. Sc. in Anthropology (Honours)
4. B. Sc. in Tea Science (Honours)

#### **Details of Officer:**

| <b>Name</b>   | <b>Designation</b> |
|---------------|--------------------|
| Dr. Nupur Das | Secretary          |



**Details of Support Staff:**

| <b>Name</b>       | <b>Designation</b>        |
|-------------------|---------------------------|
| Smt. Geeta Roy    | Sr. Assistant             |
| Shri Pintu Dutta  | Jr. Assistant cum- Typist |
| Shri Lobin Singha | Record Keeper             |

## **D. General Administration**

### **Office of the Vice-Chancellor**

The Vice-Chancellor is the principal executive and academic officer of the University and his Office provides academic and administrative control to the University for the effective management and efficient use of resources in compliance with the Act and Rules of the University. The Office of the Vice-Chancellor leads and coordinates the development policies, strategic plans in order to achieve academic excellence, effectiveness and good governance of the University. The Office also implements the policy decisions undertaken by the Court and Executive Council for overall growth of the University.

### **Office of the Registrar**

The Office of the Registrar supports the academic mission of the University of North Bengal by ensuring the integrity, confidentiality, and security of educational records; interpreting and implementing academic policies; and providing sound and efficient services to support the academic needs of students, alumni, faculty, and staff in a way that promotes fairness, a commitment to excellence, open communication, and respect.

This office also maintains principal policies and procedures that guide academic stakeholders of the University community in the pursuit of University academic objectives and in relations with the community at large. Policies are also designed to acquaint new student, faculty, and staff members with the organization and aims of the University.

### **Office of the Controller of Examinations**

The Examination Branch, which began its journey in 1962, had been responsible for conducting examinations in six districts of North Bengal as well as Sikkim. Till the year 2007, the branch has not only conducted examinations for Undergraduate and Post Graduate students but also for those pursuing Medical, Engineering and Dental courses.

The Examination Branch on its journey has experienced reforms in examination system. Presently, the entire examination processes have been digitized breaking the age old mode of conducting examinations. All the documents of the examinees of the University have been digitally recorded with National Academic Depository (NAD), a scheme launched by the UGC. From the year 2000, the branch has introduced the concept of spot evaluation which has enabled timely publication of the results. A major breakthrough came in the year 2018 when the branch launched its own website, [www.nbuexams.net](http://www.nbuexams.net), and online process in the examination system. The branch has also launched the process of sending transcripts online to the candidates working abroad and willing to pursue higher degrees in foreign universities. Presently the Office of the Controller of Examination is

working on the necessary steps required to bring in reforms for facilitating e-governance in the Examination Branch.

During the outbreak of COVID-19 Pandemic and its innumerable disruptions, the office has been able to conduct the examinations successfully overcoming all the odds

### **Office of the Finance Officer**

The Finance and Accounts Department of the University is engaged in providing the services pertaining to Finance and maintenance of accounts to Teaching and Non-Teaching Departments / Sections / Units, affiliated colleges and recognized institutes. The office is headed by the Finance Officer, who is assisted by a team of dedicated team members consisting of Accounts Officer and Audit Officer. The Finance and Accounts Officer discharges duties related to budget and coordinates matters pertaining to Finance and Accounts under over all supervision of Vice-Chancellor adhering to laid down rules, regulations and time frame so as to contribute in enhancing the education process.

Centralized Finance Units of this office are Pay, Bills, Book, Grants, Endowment, Provident Fund, Budget, Cash, and Examination Finance. Decentralized Finance and Accounts Units cater to the needs of Post Graduate Departments, Estate, Student Welfare, Hostels, Board of Sports.

### **Office of the Inspector of Colleges**

The Office of the Inspector of Colleges performs the functions in regard to affiliation of colleges in accordance with the Statutes of the University and the UGC (Affiliation of Colleges by Universities) Regulations, 2009. For affiliation of professional programs in colleges the guidelines made by concerned regulatory authorities are also taken into consideration. For inclusion of new academic programs in colleges this office maintains close liaison with the West Bengal State Council of Higher Education and the Department of Higher Education, Government of West Bengal.

The Office of the Inspector of Colleges also looks after the affairs of Board of Residence and Discipline which includes supervision and control of Hostels for residence of students and to enforce rules of discipline.

### **Office of the Development Officer**

The Office of the Development Officer examines continuously the needs for development in various Departments and units of the University and also monitors all development works of the University and Schemes of the colleges funded programs. This Office keeps contact with the University Grants Commission and maintains records pertaining to UGC. The grants received from

UGC and other State Agencies are also distributed by the Office of the Development Officer. The Office also performs scholarship related activities.

The Office of the Development Officer collects year-wise information from each of the Academic / Administrative Departments / Centres / Directorates / Branches and does necessary compilation and editing works to prepare Annual Reports.

## E. Officers of the University

### List of Officers

| Sl. No. | Name of the Officers                 | Designation of the Officers                            |
|---------|--------------------------------------|--|
| 1.      | Dr. Subiresh Bhattacharyya           | Hon'ble Vice-Chancellor                                |
| 2.      | Dr. Dilip Kumar Sarkar               | Registrar  |
| 3.      | Dr. Debasish Dutta                   | Controller of Examinations                             |
| 4.      | Dr. Subrata Sanyal                   | Inspector of Colleges                                  |
| 5.      | Shri Mriganka Mandal                 | Librarian  |
| 6.      | Shri Anirban Biswas                  | System Manager   |
| 7.      | Shri Gautam Sarkar                   | Tech. Officer (III)                                    |
| 8.      | Dr. Swapan Kr. Rakshit               | Deputy Registrar                                       |
| 9.      | Dr. Sukhendra Narayan Saha           | Audit & Accounts Officer                               |
| 10.     | Shri Anirban Goon                    | University Engineer                                    |
| 11.     | Dr. Zakia Banu                       | Medical Officer  |
| 12.     | Shri Brindaban Karmakar              | Deputy Librarian                                       |
| 13.     | Dr. Nupur Das                        | Secretary, Council for under Graduate studies          |
| 14.     | Dr. Joydeep Biswas                   | Secretary, Faculty Council for P.G. Studies in Science |
| 15.     | Dr. Tamal Sarkar                     | Scientific Research Officer Grade II                   |
| 16.     | Shri Sudeep Basu                     | System Engineer  |
| 17.     | Dr. Arunava Bhadra                   | Sr. Research Physicist                                 |
| 18.     | Shri Sajal Chakraborty (Contractual) | Officer-in-Charge, Watch & Ward                        |
| 19.     | Dr. Mayukh Deb                       | Micro- Analyst   |
| 20.     | Dr. Gautam Gope                      | Electro- Instrumentation Officer                       |
| 21.     | Shri Apurba Paul                     | Documentation Officer                                  |
| 22.     | Dr. Biswajit Chatterjee              | Secretary to V.C.                                      |

| <b>Sl. No.</b> | <b>Name of the Officers</b>           | <b>Designation of the Officers</b>   |
|----------------|---------------------------------------|--------------------------------------|
| 23.            | Shri Utpal Mandi                      | Programmer                           |
| 24.            | Shri Amitava Deb Barman               | Programmer                           |
| 25.            | Dr. Prajanmita Dasgupta               | Scientific Officer                   |
| 26.            | Smt. Yangzee Sherpa                   | Assistant Librarian                  |
| 27.            | Shri Debasis Kar                      | Assistant Engineer                   |
| 28.            | Shri Kaushik Chatterjee (Contractual) | Assistant Engineer                   |
| 29.            | Shri Subhrangsu Kr. Mistri            | Assistant Librarian                  |
| 30.            | Shri Santanu Chanda                   | Assistant Librarian                  |
| 31.            | Smt. Shankari Chakraborty             | Assistant Controller of Examinations |
| 32.            | Shri Debasish Bhattacharya            | Assistant Registrar                  |
| 33.            | Shri Surajit Das                      | Accounts Officer                     |
| 34.            | Shri Kamala Kanta Ghosh               | Estate Officer                       |
| 35.            | Shri Arindam Mukherjee                | Research Officer                     |
| 36.            | Shri Manas Esh                        | Information Scientist                |
| 37.            | Shri Soumyadeep Laha                  | Tech. Officer (I)                    |
| 38.            | Dr. Malay Saha                        | Asst. Curator (Museum)               |
| 39.            | Dr. Subhojit Sarker                   | Assistant Registrar                  |
| 40.            | Smt. Susmita Misra (Contractual)      | Assistant Registrar                  |
| 41.            | Shri. Kunal Chowdhury                 | Assistant Engineer                   |
| 42.            | Dr. Biswajit Dutta                    | Assistant Controller of Exam.        |
| 43.            | Shri. Lalan Kumar Choudhary           | Accounts Officer                     |
| 44.            | Shri. Uttam Nunia                     | Superintendent. University Press     |



**CHAPTER – II**  
**ACADEMIC PROGRAMS AND  
STUDENTS**





## A. Academic Programs

The University of North Bengal offers various academic courses in Under-graduate (UG), Post-graduate (PG), M. Phil., Ph. D. and Diploma level in various subjects. The details of courses offered during 2020 – 21 are given below –

### Courses Offered in UG Level

| Sl. No. | Department                 | Name of the Course               |
|---------|----------------------------|----------------------------------|
| 1       | Department of Anthropology | B. Sc. in Anthropology (Honours) |
| 2       | Department of Geology      | B. Sc. in Geology (Honours)      |
| 3       | Department of Law          | B.A. LL. B. (Honours)            |
| 4       | Department of Tea Science  | B. Sc. in Tea Science (Honours)  |

### Courses Offered in PG Level

| Sl. No. | Department                                     | Name of the Course       |
|---------|--|--------------------------|
| 1       | Department of Anthropology                     | MSc / MA in Anthropology |
| 2       | Department of Bengali                          | MA in Bengali            |
| 3       | Department of Bioinformatics                   | MSc in Bioinformatics    |
| 4       | Department of Bio-Technology                   | MSc in Bio-Technology    |
| 5       | Department of Botany                           | MSc in Botany            |
| 6       | Department of Chemistry                        | MSc in Chemistry         |
| 7       | Department of Commerce                         | M. Com                   |
| 8       | Department of Computer Science and Application | MCA                      |
| 9       | Department of Computer Science and Application | MSc in Computer Science  |
| 10      | Department of Economics                        | MA in Economics          |
| 11      | Department of Education                        | MA in Education          |
| 12      | Department of English                          | MA in English            |
| 13      | Department of Food Technology                  | MSc in Food Technology   |

| <b>Sl. No.</b> | <b>Department</b>                             | <b>Name of the Course</b>                   |
|----------------|---|---|
| 14             | Department of Geography and Applied Geography | MSc / MA in Geography and Applied Geography |
| 15             | Department of Geology                         | MSc in Geology                              |
| 16             | Centre for Himalayan Studies                  | MA in Strategic and Area Studies            |
| 17             | Department of Hindi                           | MA in Hindi                                 |
| 18             | Department of History                         | MA in History                               |
| 19             | Department of Law                             | LL. M.                                      |
| 20             | Department of Library and Information Science | MLIS  |
| 21             | Department of Lifelong Learning and Extension | MA in Rural Development                     |
| 22             | Department of Management                      | MBA   |
| 23             | Department of Mass Communication              | MA in Mass Communication                    |
| 24             | Department of Mathematics                     | MSc in Mathematics                          |
| 25             | Department of Microbiology                    | MSc in Microbiology                         |
| 26             | Department of Nepali                          | MA in Nepali                                |
| 27             | Department of Pharmaceutical Technology       | M. Pharm                                    |
| 28             | Department of Philosophy                      | MA in Philosophy                            |
| 29             | Department of Physics                         | MSc in Physics                              |
| 30             | Department of Political Science               | MA in Political Science                     |
| 31             | Department of Sanskrit                        | MA in Sanskrit                              |
| 32             | Department of Sociology                       | MA in Sociology                             |
| 33             | Department of Tea Science                     | MSc in Tea Science                          |
| 34             | Department of Women's Studies                 | MA in Women's Studies                       |
| 35             | Department of Zoology                         | MSc in Zoology                              |

## Courses Offered in M. Phil.

| Sl. No. | Department                                     | Name of the Course                          |
|---------|--|---|
| 1       | Department of Anthropology                     | M. Phil. in Anthropology                    |
| 2       | Department of Bengali                          | M. Phil. in Bengali                         |
| 3       | Department of Botany                           | M. Phil. in Botany                          |
| 4       | Department of Commerce                         | M. Phil. in Commerce                        |
| 5       | Department of Computer Science and Application | M. Phil. in Computer Science                |
| 6       | Department of Economics                        | M. Phil. in Economics                       |
| 7       | Department of English                          | M. Phil. in English                         |
| 8       | Department of Geography and Applied Geography  | M. Phil. in Geography and Applied Geography |
| 9       | Centre for Himalayan Studies                   | M. Phil. in Himalayan Studies               |
| 10      | Department of Hindi                            | M. Phil. in Hindi                           |
| 11      | Department of History                          | M. Phil. in History                         |
| 12      | Department of Law                              | M. Phil. in Law                             |
| 13      | Department of Library and Information Science  | M. Phil. in LIS                             |
| 14      | Department of Mathematics                      | M. Phil. in Mathematics                     |
| 15      | Department of Microbiology                     | M. Phil. in Microbiology                    |
| 16      | Department of Nepali                           | M. Phil. in Nepali                          |
| 17      | Department of Philosophy                       | M. Phil. in Philosophy                      |
| 18      | Department of Physics                          | M. Phil. in Physics                         |
| 19      | Department of Political Science                | M. Phil. in Political Science               |
| 20      | Department of Sociology                        | M. Phil. in Sociology                       |
| 21      | Department of Tea Science                      | M. Phil. in Tea Science                     |
| 22      | Department of Zoology                          | M. Phil. in Zoology                         |

Note: Admission in M. Phil Programme was continued till the session 2019-2021

## Courses Offered in Ph. D.

| Sl. No. | Department                                     | Name of the Course                       |
|---------|--|--|
| 1       | Department of Anthropology                     | Ph.D. in Anthropology                    |
| 2       | Department of Bengali                          | Ph.D. in Bengali                         |
| 3       | Department of Bioinformatics                   | Ph.D. in Bioinformatics                  |
| 4       | Department of Bio-Technology                   | Ph.D. in Bio-Technology                  |
| 5       | Department of Botany                           | Ph.D. in Botany                          |
| 6       | Department of Chemistry                        | Ph.D. in Chemistry                       |
| 7       | Department of Commerce                         | Ph.D. in Commerce                        |
| 8       | Department of Computer Science and Application | Ph.D. in Computer Science                |
| 9       | Department of Economics                        | Ph.D. in Economics                       |
| 10      | Department of Education                        | Ph.D. in Education                       |
| 11      | Department of English                          | Ph.D. in English                         |
| 12      | Department of Food Technology                  | Ph.D. in Food Technology                 |
| 13      | Department of Geography and Applied Geography  | Ph.D. in Geography and Applied Geography |
| 14      | Department of Geology                          | Ph. D in Geology                         |
| 15      | Centre for Himalayan Studies                   | Ph.D. in Himalayan Studies               |
| 16      | Department of Hindi                            | Ph.D. in Hindi                           |
| 17      | Department of History                          | Ph.D. in History                         |
| 18      | Department of Law                              | Ph.D. in Law                             |
| 19      | Department of Library and Information Science  | Ph.D. in Library and Information Science |
| 20      | Department of Mass Communication               | Ph.D. in Mass Communication              |
| 21      | Department of Mathematics                      | Ph.D. in Mathematics                     |
| 22      | Department of Microbiology                     | Ph.D. in Microbiology                    |
| 23      | Department of Nepali                           | Ph.D. in Nepali                          |
| 24      | Department of Pharmaceutical Technology        | Ph.D. in Pharmaceutical Technology       |
| 25      | Department of Philosophy                       | Ph.D. in Philosophy                      |

| <b>Sl. No.</b> | <b>Department</b>               | <b>Name of the Course</b>  |
|----------------|---------------------------------|----------------------------|
| 26             | Department of Physics           | Ph.D. in Physics           |
| 27             | Department of Political Science | Ph.D. in Political Science |
| 28             | Department of Sociology         | Ph.D. in Sociology         |
| 29             | Department of Tea Science       | Ph.D. in Tea Science       |
| 30             | Department of Zoology           | Ph.D. in Zoology           |

### **Courses Offered in Diploma Level**

| <b>Sl. No.</b> | <b>Department</b>            | <b>Name of the Course</b>    |
|----------------|------------------------------|------------------------------|
| 1              | Department of Bioinformatics | PG Diploma in Bioinformatics |
| 2              | Department of Tea Science    | PG Diploma in Tea Management |

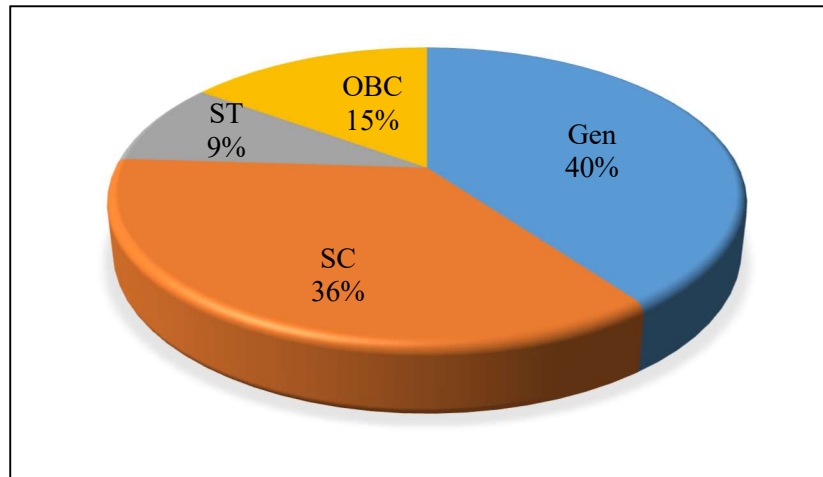
### **Courses Offered in Online and Distance Learning Mode**

| <b>Sl. No.</b> | <b>Name of the Course</b> |
|----------------|---------------------------|
| 1              | B.A. (General)            |
| 2              | B.Com. (General)          |
| 3              | M.A. in Bengali           |
| 4              | M.A. in Nepali            |
| 5              | M.A. in English           |
| 6              | M.A. in History           |
| 7              | M.A. in Philosophy        |
| 8              | M.A. in Political Science |
| 9              | M.Sc. in Mathematics      |

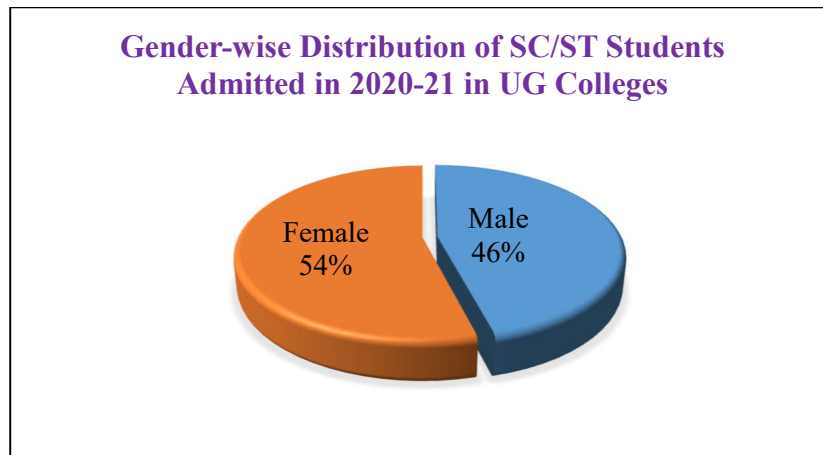
## B. Student Enrollment

### Enrolment of Students in UG Level

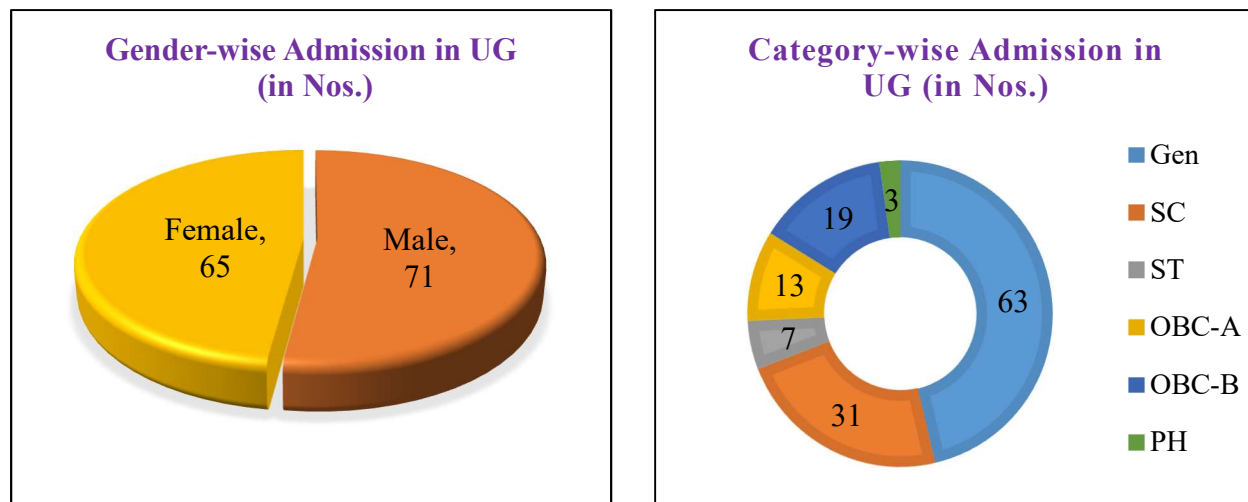
There are 50 affiliated colleges under the University of North Bengal in a spread of six districts. The present strength of students studying in various UG courses in the affiliated colleges in 2020-21 is 1,10,837 which is 1.3% higher than total number of students studied in 2019-20. The category-wise distribution of total students in the affiliated colleges have been represented graphically and shown below -



Among the above students, a total of 48,176 students including 22,233 males and 25,943 females have enrolled in 2020 – 21 registering 5.7% growth in total admission with respect to previous year with 8.4% growth in male and 3.5% growth in female student admission. Out of the same, 18,331 number of students belong to SC & ST community and gender-wise break-up of SC & ST students are given below –

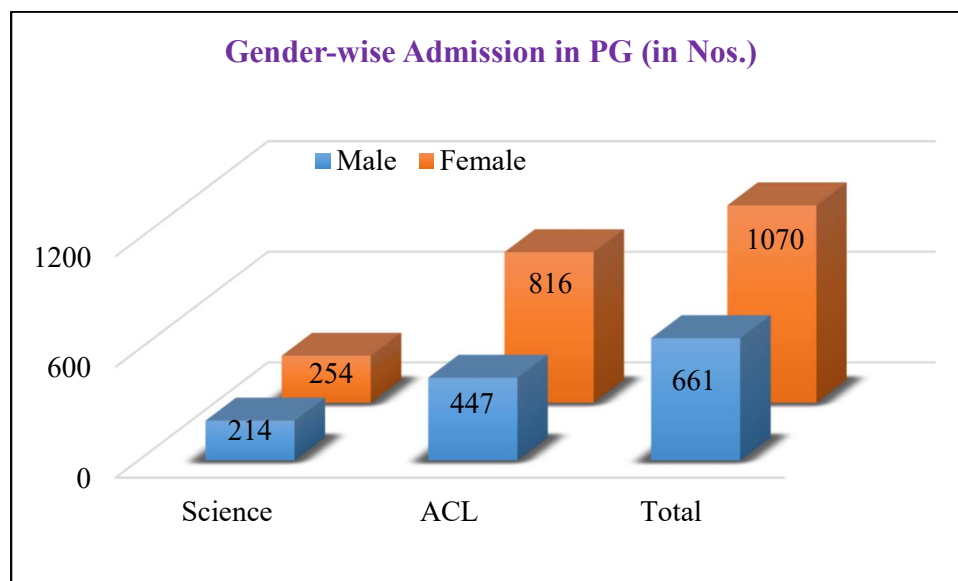


Apart from the affiliated colleges, the University also provides four numbers of UG courses in various Departments. Presently there are 582 students in total in all semesters of these courses with a male female ratio of 47:53. A total of 136 students have enrolled themselves in the university in 2020-21 academic session. The gender-wise and category-wise admission of students in 2020-21 are given in the following graphs –

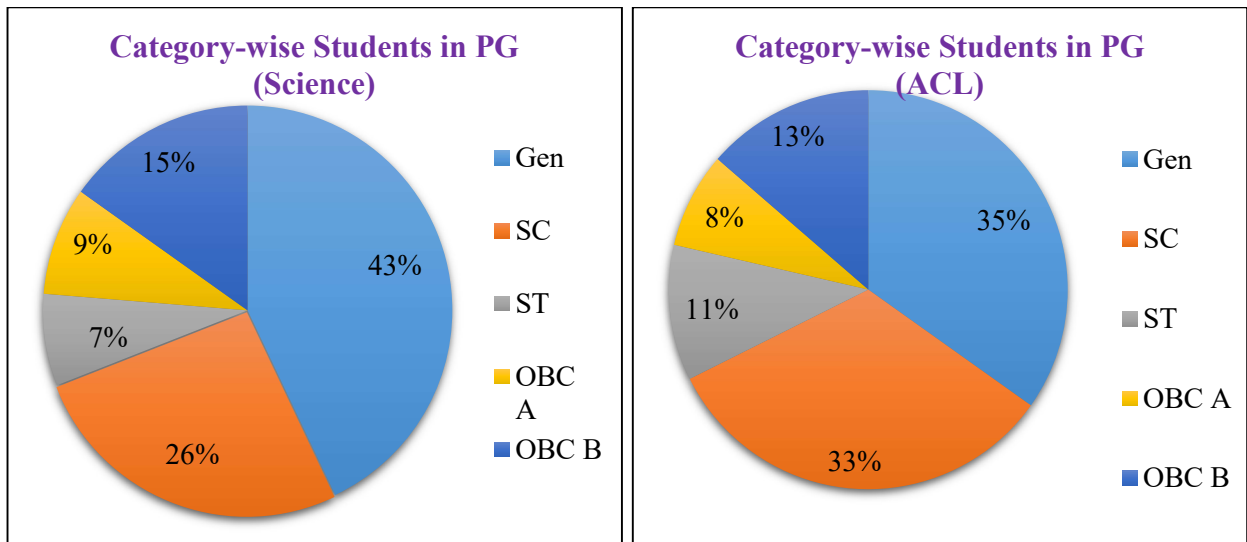


### Enrolment of Students in PG Level

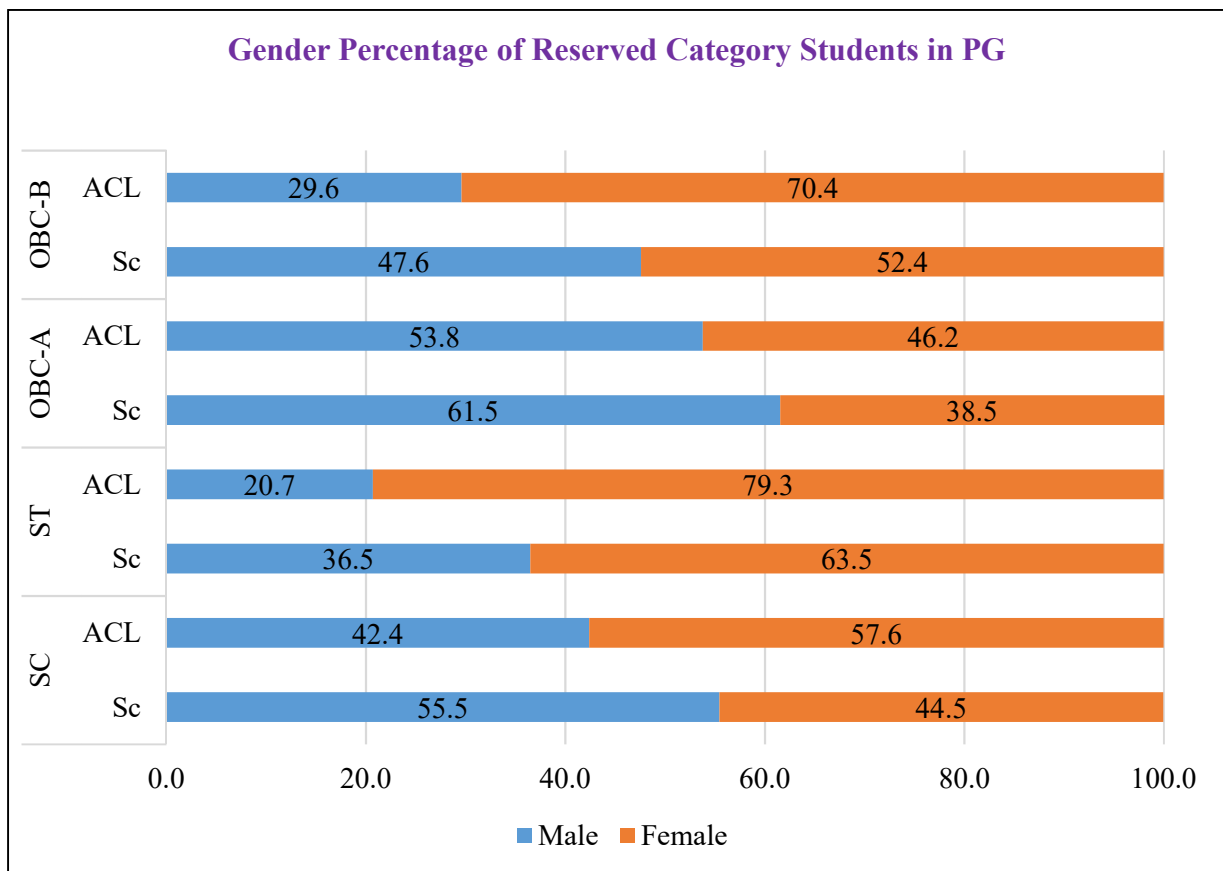
A total of 1731 number of students have taken admission in various Departments of the university in PG level in 2020 - 21, including 468 number of students in Science and 1263 number of students in Arts, Commerce and Law (ACL). The gender-wise and category-wise distribution of PG students admitted in Semester – I in Science and ACL are given below –







Out of total 3000 students studying in PG (Semester I and Semester III) in 2020 - 21, 1897 students belong to reserved category. The male to female ratio of the students in each of the reserved categories is given below.



## Enrolment of Students in Ph. D. Level

In 2020 – 21 a total of 40 students have enrolled for Ph. D. programs in various Departments of the University; 19 under Faculty of Science and 21 under Faculty of Arts, Commerce and Law.

### Faculty of Science

| Sl. No. | Name of the Candidate  | Name of the Supervisor | Subject   | Topic  |
|---------|------------------------|------------------------|-----------|--|
| 1.      | Sujit Mondal           | Dr. M. Chowdhury       | Botany    | Taxonomy, Phenology and Ethnobotany of Palms in West Bengal  |
| 2.      | Prasant Nahak          | Prof. A.K. Panda       | Chemistry | Physicochemical Studies on Lipidic Component with Special Reference to Monolayer, Bilayer and Solid Lipid Nanoparticle   |
| 3.      | Sultana Yesmin         | Prof. P. Ghosh         | Chemistry | Synthesis and Performance Evaluation of Organic Polymeric Additives for Lube and Crude Oils  |
| 4.      | Biplab Rajbanshi       | Prof. M.N. Roy         | Chemistry | Investigation of Host-Guest Inclusion Complexation of Some Biologically Potent Molecules and Solvent Consequences of Some Food Preservatives with The Manifestation of Synthesis, Characterization and Innovative Applications |
| 5.      | Binoy Chandra Saha     | Prof. M.N. Roy         | Chemistry | Host Guest Inclusion Complexes and Thermodynamic Properties of some Imperative Molecules with the Manifestation of Diverse Interactions by Physicochemical Investigation   |
| 6.      | Prasun Choudhury       | Prof. B. Basu          | Chemistry | Carbonaceous Nanomaterials and Composites: Green Techniques for Organic Synthesis  |
| 7.      | Rabindranath Singha    | Prof. P. Ghosh         | Chemistry | Chemical transformation of Carbocyclic Compounds and Development of Novel Reaction Protocols   |
| 8.      | Suchandra Bhattacharya | Prof. B. Basu          | Chemistry | New Catalytic Applications of Functionalized Graphenes and Metal-Embedded Organic Polymer  |

| Sl. No. | Name of the Candidate | Name of the Supervisor                               | Subject                        | Topic  |
|---------|-----------------------|--|--------------------------------|--|
| 9.      | Bijeta Mitra          | Prof. P. Ghosh                                       | Chemistry                      | Development of New Protocols towards Construction of Bioactive Heterocyclic Compounds  |
| 10.     | Dipanjan Moitra       | Dr. Rakesh Kukar Mandal                              | Computer Science & Application | A Deep Learning Model for Prediction of Malignant Tumors in Human Body with Special Reference to Multimodal Imaging Techniques                                   |
| 11.     | Nanigopal Kapacia     | Prof. S. Rohatgi                                     | Geography & Applied Geography  | Socio-Economic Condition of Women in Tea Gardens : A Case Study of Terai of Darjeeling and Jalpaiguri Districts of West Bengal                                   |
| 12.     | Debarshi Ghosh        | Dr. Snehasish Saha                                   | Geography & Applied Geography  | A Study on Fluvial Dynamics of the Chel River Basin, North Bengal  |
| 13.     | Pronob Mondal         | Dr. S.K. Bhattacharya                                | Geography & Applied Geography  | Educational and Employment Status of the Scheduled Tribes Population in Malda District, West Bengal  |
| 14.     | Rituparna Das         | Dr. I. Lepcha  | Geography & Applied Geography  | An Assessment of the Level of Rural Development in Jalpaiguri District, West Bengal  |
| 15.     | Tarun Das             | Prof. D.K. Mandal                                    | Geography & Applied Geography  | Socio-Economic Characteristics of Forest Villagers in Alipurduar District of West Bengal   |
| 16.     | Diyali Chattaraj      | Prof. S. Sarkar                                      | Geography & Applied Geography  | Assessment of Wetland Resources in Malda District and its Conservation for Sustainable Management  |
| 17.     | Jyotirmay Paul        | Dr. A. Bhadra & Dr. A.N. Ramaprakash (Co-supervisor) | Physics                        | Design and Development of Adaptive Optics System in Visible and Near Infra-Red Band for IUCAA 2m Telescope   |
| 18.     | Debarghya Goswami     | Prof. P.K. Mandal                                    | Physics                        | Studies on some Biphenyl Benzoate Based Chiral Liquid Crystal Compounds  |
| 19.     | Bijoy Chhetri         | Prof. S. Barat & Dr. H.K. Badola (Co-Supervisor)     | Zoology                        | Distribution, Abundance and Habitat Interaction of Himalayan Pheasants with their response to Climate Change in Khangchendzonga Biosphere Reserve, Sikkim, India |

## Faculty of Arts, Commerce and Law

| Sl. No. | Name of the Candidate | Name of the Supervisor | Subject                      | Topic   |
|---------|-----------------------|------------------------|------------------------------|---|
| 1.      | Magfera Megum         | Prof. M. Bera          | Bengali                      | আধুনিক বাংলা সাহিত্য মনসা-কথার নবনির্মাণ : ভাবনায় ও প্রকরণ   |
| 2.      | Deep Chanda           | Prof. U. Mandal        | Bengali                      | ক্রিয়াভিত্তিক-বর্ণভিত্তিক শব্দার্থতত্ত্বর আলায় রামায়ণ - কথা  |
| 3.      | Koyel Datta           | Prof. N.C. Roy         | Bengali                      | কৃষক আন্দোলনের পরিপ্রক্ষিত বাংলা কথাসাহিত্য (তভাগা থক নকশালবাড়ি পর্যন্ত)   |
| 4.      | Sreyasee Goswami      | Prof. M. Bera          | Bengali                      | সুনীল গঙ্গাপাধ্যায়র 'সই সময়' - 'প্রথম আলা' - 'পূর্ব পশ্চিম' উপন্যাস বাঙালী সমাজ, সংস্কৃতি ও ঐতিহ্যর সন্ধান  |
| 5.      | Kuntal Sinha          | Prof. N.C. Ray         | Bengali                      | মাহিত চট্টাপাধ্যায়র নাট্যকৃতি  |
| 6.      | Bikash Karki          | Prof. K. Datta         | Centre for Himalayan Studies | Dynamics of the Political Parties of Sikkmi (1940 – 2000) : A Study in Historical Perspective   |
| 7.      | Malay Kalita          | Prof. A. Bhuimali      | Economics                    | Agricultural Credit in Assam with Special Reference to Assam Gramin Vikash Bank : A Case Study of Barpeta District  |
| 8.      | Sanjay Dutta          | Prof. A. Bhuimali      | Economics                    | Role of Commercial Banks in Agricultural Development with Special Reference to Jalpaiguri District  |
| 9.      | Mandika Sinha         | Prof. S. Samanta       | English                      | Literature of Crisis : Reading Recent Scandanavian Crime Fiction  |
| 10.     | Peenaz Khan           | Dr. Binayak Roy        | English                      | <i>Trans-</i> lation, Poetics and Politics: Reflections on Clinton B. Seely's The Slaying of Meghanada: A Ramayana from Colonial Bengal and William Radice's The Poem of the Killing of Meghnad |
| 11.     | Ravi Shanker Shukla   | Dr. S.K. Dwivedi       | Hindi                        | Samkaleen Hindi Upanyas Mein Adivasi Jeevan Ka Swaroop Aur Vishleshan   |
| 12.     | Sanat Kumar Adhikary  | Prof. A. Bagchi        | History                      | A Study on the Archaeological Sites of Malda District, Dakshin Dinajpur and Uttar Dinajpur:   |

| Sl. No. | Name of the Candidate | Name of the Supervisor | Subject    | Topic   |
|---------|-----------------------|------------------------|------------|---|
|         |                       |                        |            | Linking Archaeology with Geography, Society, Economy and Polity in the Changing Perspective (C.3 <sup>rd</sup> Century B.C. To 12 <sup>th</sup> Century A.D.) |
| 13.     | Anamika Choudhury     | Dr. Sudash Lama        | History    | Traditional Art and Craft of Sub-Himalayan Darjeeling : A Historical Study  |
| 14.     | Varun Kumar Roy       | Prof. A.G. Ghosh       | History    | Studying Urbanism: the Spatial, Physical and Bodily Manifestations in the Administrative Towns of Provincial Bengal 1757 – C 1857                             |
| 15.     | Gambhir Dhoj Subba    | Prof. D. Saha          | Philosophy | Kant's Concept of Imperative : A Critical Analysis  |
| 16.     | Nabanita Bhowal       | Prof. J.C. Basak       | Philosophy | Kant's Notion of Synthetic - A Priori Judgement and Some later Developments on it   |
| 17.     | Gouranga Biswas       | Prof. K.L. Das         | Philosophy | Current Approaches to the Theory of Reference : A Critical Observation  |
| 18.     | Sashi Mohan Das       | Dr. L.K. Padhi         | Philosophy | Intrinsic Values in Nature: Some Critical Observations  |
| 19.     | Arun Kumar Chowdhury  | Prof. K.L. Das         | Philosophy | Paradigm of Moral Action : A Comparative Study Between Kant and Bhagavadgītā  |
| 20.     | Kumar Chhetri         | Prof. S. Biswas        | Sociology  | <i>Participation of Women in Social Movements: A Sociological Study of the Hill Region of Darjeeling District</i>   |
| 21.     | Smriti Rai            | Prof. S. Sarkar        | Sociology  | Roots and Routes of Tribalism: A Study of The Kirati Khambu Rai Community of Darjeeling Hills   |

**CHAPTER – III**  
**ACADEMIC DEPARTMENTS**



## A. Faculty of Science

### DEPARTMENT OF ANTHROPOLOGY

#### About the Department:

The Department of Anthropology, University of North Bengal was established under the faculty of Science in the year 2001 and presently offers Under-Graduate, Post-Graduate and Ph.D. programmes in different fields of Anthropology. The academic programmes are so designed as to enable the students and scholars to acquire a good understanding of people, society and culture at the micro level. The special focus of the department is to examine and analyze the regional and local issues of greater anthropological significance. The Department has an innovative plan to develop interdisciplinary interaction for strengthening its teaching and research programmes. Participatory approach and Lab to Land method has been adopted to develop the teaching and research activities of the Department.

#### Courses Offered:

- B. Sc. (Anthropology Hons.)
- M. Sc. / MA in Anthropology
- M. Phil.
- Ph. D.

#### Research Focus:

- Social-Cultural Anthropology
- Dalits, Women, Rural Society
- Human Rights
- Tribal Studies
- Culture of Peace Studies
- Prehistoric Archaeology

#### Student Strength:

| Course | Year | Male | Female | Total | SC | ST  | OBC-A | OBC-B | PH  | Gen |
|--------|------|------|--------|-------|----|-----|-------|-------|-----|-----|
| P.G.   | 2021 | 08   | 15     | 23    | 04 | 02  | 02    | 04    | 01  | 10  |
|        | 2020 | 03   | 10     | 12    | 01 | NIL | NIL   | 02    | NIL | 10  |
| U.G.   | 2021 | 06   | 03     | 09    | 02 | NIL | 02    | 02    | NIL | 03  |
|        | 2020 | 05   | 09     | 14    | 06 | NIL | NIL   | 01    | NIL | 07  |
|        | 2019 | 04   | 01     | 05    | 01 | NIL | NIL   | 01    | 01  | 02  |

#### Degree Completed by Students in 2020-21:

| Course | Male | Female | Total | SC | ST | OBC-A | OBC-B | PH  | Gen |
|--------|------|--------|-------|----|----|-------|-------|-----|-----|
| P.G.   | 03   | 10     | 13    | 01 | 01 | NIL   | 02    | NIL | 09  |



**Faculty Details:**

| Name                   | Qualification | Designation      | Email                    |
|------------------------|---------------|------------------|--------------------------|
| Prof. Jaydip Sen       | Ph.D.         | Professor        | jaydipsen@nbu.ac.in      |
| Prof. Pinak Tarafdar   | Ph.D.         | Professor        | pinaktarafdar@nbu.ac.in  |
| Dr. Samar Kumar Biswas | Ph.D.         | Assoc. Professor | smrkbis@yahoo.co.in      |
| Dr. Argina Khatun      | Ph.D.         | Asst. Professor  | arginakhatun87@gmail.com |
| Dr. Rinzi Lama         | Ph.D.         | Asst. Professor  | rinzi.lama@nbu.ac.in     |

**Details of Non-Teaching Staff:**

| Name                    | Qualification | Designation          |
|-------------------------|---------------|----------------------|
| Mr. Azizul Hoque        | MLIS          | Casual staff (Gr.-C) |
| Mr. Sujit Kangsha Banik | VIII          | Casual staff (Gr.-D) |

**Details of Research Scholars:**

| Name              | Fellowship Status           | Supervisor's Name | Gender | Date of Registration        |
|-------------------|-----------------------------|-------------------|--------|-----------------------------|
| Mr. Subhankar Roy | University Fellow Completed | Prof. P Tarafdar  | Male   | Re-registration, 06.04.2020 |
| Ms. Manisha Thapa | NFOBC Completed             |                   | Female | Re-registration, 17.12.2018 |
| Ms. Grace Leivon  | RGNF Completed              |                   | Female | Re-registration, 04.06.2019 |
| Ms. Chumu Sherpa  | RGNF Completed              |                   | Female | Re-registration, 30.12.2019 |
| Mr. Riway Rai     | University Fellow           | Prof. S K Biswas  | Male   | 24.04.2018                  |
| Arindam Biswas    | UGC                         | Dr. A Khatun      | Male   | N/A                         |

**Details of PhD Students (Without Fellowship):**

| Name          | Supervisor Name      | Gender | Date of Registration |
|---------------|----------------------|--------|----------------------|
| Saonli Roy    | Prof. Pinak Tarafdar | Female | 24.11.2017           |
| TrishalaSubba | Dr Rinzi Lama        | Female | 02/01/2020           |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>            | <b>Details of the Seminars/Conferences</b>   | <b>Venue &amp; Date</b>  | <b>Title of the Paper Presented</b>  |
|------------------------|--|--|--|
| Dr. Samar Kumar Biswas | International Bilingual Webinar on “Tribal Lifestyle: Literature-Culture-Anthropology”, Organized by IBWTL-1, 2020-2021 in Collaboration with SLL, JU and SNLTR, and Ling Club, J.U  | Online<br>29-30.12.2020 &15.01.2021.                             | Tribal Culture and Language: Issues, Consequences, and Challenges  |
| Rinzi Lama             | UGC sponsored National seminar on “Ethnic Groups in India: Problems and Perspectives   | Venue: University of North Bengal,<br>6 <sup>th</sup> March 2020 | Spirit Possession as cultural tradition and place making among the Nepali community in Darjeeling, West Bengal |
| Rinzi Lama             | National Webinar on Tribal Health in India organized by the School of Anthropology & Tribal Studies in collaboration with School of Education, Bastar Vishwavidyalaya, Jagdalpur, C.G.   | Online<br>7 <sup>th</sup> July, 2020                             | Attended   |
| Rinzi Lama             | 5-day National Webinar Series on communities and Food Systems: Land, Labor, Migration organized jointly by the Department of Economics, and the Department of Geography in collaboration with the IQAC, Salesian College, Siliguri | Online<br>24 <sup>th</sup> - 28 <sup>th</sup> August 2020        | Attended   |
| Rinzi Lama             | Online lecture series Anthropology, Anthropologist and Pandemics organized by International School of Anthropology, Anthropological Survey of India  | Online<br>16 <sup>th</sup> – 20 <sup>th</sup> August, 2020       | Attended   |
| Rinzi Lama             | Anthropological Response to Covid-19 organized by Department of Anthropology, University of Delhi,   | Online,<br>7 <sup>th</sup> July, 2020                            | Attended   |

**Details of Seminar/Conferences /Webinar Attended by Student:**

| <b>Name of the Student</b> | <b>Details of the Seminars/Conferences</b>   | <b>Date</b>       |
|----------------------------|--|-------------------|
| Riwaj Rai                  | International Webinar Series on Overview of Forensic Odontology and Forensic Comparative Science generalizing across Disciplines. Organised by Department of Forensic Science, Dayal Singh College, Karnal | 01.07.2020        |
| Riwaj Rai                  | State level Seminar on Pandemic Outbreak and Contemporary Challenges: Anthropological Insights, Organised by Department of Anthropology and IQAC, Sree. Chaitanya College, Habra, West Bengal              | 04.07.2020        |
| Riwaj Rai                  | International Workshop on Research Methodology in Social Sciences, Organised by the Department of Education, Siddinath Mahavidalaya, West Bengal and Pailan College of Education, West Bengal              | 16-22.<br>07.2020 |
| Riwaj Rai                  | Workshop on The Craft of Research Methodology: Advances and Applications organised by Department of Anthropology, University of Delhi  | 27.07.2020        |
| Riwaj Rai                  | National Webinar on Knowledge of Indigenous People: An Anthropological Outlook, organised by the Department of Anthropology, DHSK College, Dibrugarh, Assam  | 02.08.2020        |
| Riwaj Rai                  | International Virtual Workshop, Improvising Strategies for Social Research: Methodological Concernsorganised by Indian Anthropological Association and Anthropology Without Borders                        | 12.08.2020        |

**Publications:**

| <b>Name of the Author(s)</b>     | <b>Publication Details</b>   | <b>Year</b> |
|----------------------------------|--|-------------|
| Manisha Thapa and Pinak Tarafdar | ' <i>Saato Haraunu</i> ' - a notion of similar to Soul Loss: The glimpses of ethnic revival among the Mangars and Limbus of Darjeeling, <i>Journal of Kolkata Society for Asian Studies</i> , Vol.06, No. 2. | 2020        |
| Pinak Tarafdar                   | Impact of Habitation Change on Traditional Health Care Practices: An Application of Cross-cultural comparison in Medical Anthropology, <i>The Journal of the Asiatic Society</i> , Vol. LXII, No. 3.         | 2020        |
| Pinak Tarafdar                   | The Role of Modern Healthcare Practitioner in Health Equity and Health Disparity, A Very Short Appraisal in the  | 2021        |

| <b>Name of the Author(s)</b> | <b>Publication Details</b>  | <b>Year</b> |
|------------------------------|---|-------------|
|                              | Tribal Context, Paper accepted on 06.06.2020, in M. Das (et.al) edited book entitled <i>Health Disparity and Health Equity</i> , Rawat Publication.   |             |
| Samar Kuamr Biswas           | Understanding the Influence of Social Environments on Child Development: A Case Study, <i>Journal of Man, Environment and Society</i> Vol. 1 (1): 19-36 [ISSN: 2582-7669]                             | 2020        |
| Samar Kuamr Biswas           | Chief Editor of the Peer Reviewed Journal of <i>Man, Environment and Society</i> (JMES)' June 2020 Issue: Vol. 1 No. 1(ISSN: 2582-7669).  | 2020        |
| Samar Kuamr Biswas           | Essential Non-Timber Forest Products in Sustaining Livelihood: A Study on the Totos- the only PVTGs of North Bengal. <i>North Bengal Anthropologist annually</i> , Vol. 8: 87-109. [ISSN: 2320-8376]. | 2020        |
| Samar Kuamr Biswas           | How does Poverty affect Family Relationships: A Case Study, <i>Journal of Man, Environment and Society</i> Vol. 1 (2): 205-216 [ISSN: 2582-7669]  | 2020        |
| Samar Kuamr Biswas           | Chief Editor of the Peer Reviewed Journal of <i>Man, Environment and Society</i> (JMES) December 2020 Issue: Vol. 1 No. 2 (ISSN: 2582-7669).  | 2020        |
| Argina Khatun                | <i>Human Biology Review</i> . 10 (1), 34-49.  | 2021        |
| Argina Khatun                | <i>North Bengal Anthropologist annually</i> , Vol- 9, 152-168.  | 2021        |
| Sen J., Mondal N., Lama R.   | <i>South Asian Anthropologist</i> 21(1): 1-9  | 2021        |
| Lama R.                      | <i>South Asian Anthropologist</i> 20(2): 191-192  | 2020        |

#### **Research Projects Details:**

| <b>Title of the Project</b>   | <b>Project Duration</b> | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Budget</b> |
|---|-------------------------|---------------------|-------------------------|---------------|
| Interdisciplinary Curricula on Indigenous and Tribal Peoples' Studies. (A project of the University of Lapland, Finland, and this Department is working as a partner in this Collaborative Project) | Oct, 2020 to Dec, 2022  | EDUFI, Finland      | 2020                    | 35,500 Euros  |

| <b>Title of the Project</b>   | <b>Project Duration</b> | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Budget</b> |
|---|-------------------------|---------------------|-------------------------|---------------|
| Assemblages and Conservations of Selected Prehistoric Sites and Relics in West Bengal and Jharkhand | Jun, 2020 to Mar, 2021  | NBU                 | 2020                    | Rs. 1.5 lakh  |
| Culture and Livelihood of the Lepchas   | Apr, 2020 to Feb, 2022  | NBU                 | 2020                    | Rs. 1.5 lakh  |

**Miscellaneous Events:**

Dr. Rinzi Lama participated in an online Panel Discussant on Biodiversity of Darjeeling-Sikkim Himalaya-Pathways to resilience, organized by Darjeeling Himalayan Initiative as a part of International Mountain Day on 11<sup>th</sup> December, 2020.

Dr. Rinzi Lama acted as Resource Person in an online training workshop entitled 'Ecosystem Approaches to Food and Water Security for Rural Wellbeing'. This was a training and capacity building project 'Adapting to and mitigating ecological and socio-economic impacts of climate change: Training and capacity building' funded by the SPLICE Division, Department of Science and Technology, Govt. of India and organized by Ashoka Trust for Research in Ecology and the Environment. The event was held from 9<sup>th</sup> to 21<sup>st</sup> December, 2020.

## DEPARTMENT OF BIOINFORMATICS

### About the Department:

Bioinformatics is information technology applied to managing and analyzing biological data with computers. It is the science of using the information to understand biology. It is a field in which biological information is collected, compared, studied and analyzed to find the interrelation between them for solving structural, functional and evolutionary problems using computational technologies. It is an emerging branch in life science.

The Department of Bioinformatics, University of North Bengal, was started in 2017 to meet the demand for higher education, research and innovation in research areas of bioinformatics. Presently, the Department runs a one-year Post Graduate Diploma in Bioinformatics (PGDBI), which started in the academic year 2018-2019. The Department has also envisaged starting a Postgraduate course in Bioinformatics from 2021-22.

### Courses Offered:

- PG Diploma in Bioinformatics
- M. Sc.
- Ph. D.

### Research Focus:

- Comparative Microbial Genomics
- Computer-Aided Drug Discovery
- Biological Network Study and AI
- NGS Data analysis
- Protein Engineering
- Novel Drug Target Identification

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | PH | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|----|-----|
| PGDBI  | 2021 | 2    | 0      | 2     | 1  | 0  | 0     | 0     | 0  | 1   |

### Faculty Details:

| Name                 | Qualification | Designation      | Email                    |
|----------------------|---------------|------------------|--------------------------|
| Dr. John J. George   | Ph. D.        | Assoc. Professor | george@nbu.ac.in         |
| Dr. Subarna Thakur   | Ph. D.        | Asst. Professor  | subarna.thakur@nbu.ac.in |
| Dr. Chiranjib Sarkar | Ph. D.        | Asst. Professor  | chiranjib@nbu.ac.in      |

### Details of Non-Teaching Staff:

| Nam           | Qualification | Designation          | Email                  |
|---------------|---------------|----------------------|------------------------|
| Roshan Mallik | VIII          | Group-D (Casual)     | rsmallick824@gmail.com |
| Anjan Dey     |               | Junier Suprendendent |                        |

**Details of Seminars/Conferences/Webinar Organized:**

| Name of the Seminar/Conference/ Webinar   | Date               | Number of Participants | Expenditure (Rs.) |
|---|--------------------|------------------------|-------------------|
| Computational tools used in life science research   | 09 to 11 Oct, 2020 | 500                    | 15,000            |
| Bioinformatics in comparative metagenome analysis : unwrapping mysterious microbial world | 12 Dec, 2020       | 164                    | 15,000            |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name               | Name of the Seminars / Conferences  | Venue & Date  | Title of the Paper Presented   |
|--------------------|---|---|--|
| Dr. Subarna Thakur | One Day National Webinar on Recent trends in Biological and Chemical Sciences to fight against Covid-19 | Kabi Nazrul College, University of Burdwan<br>July 26, 2020 | Latest in-silico tools used for covid-19 research and its implication in vaccine development |
|                    | International Webinar on Neotric Approach in applied sciences   | Darjeeling Government College<br>August 24, 2020            | Bioinformatics Tools and Databases in Microbial Research                                     |

**Publications:**

| Name of the Author | Details of Book/Journal/Volume  | Year |
|--------------------|---|------|
| Dr. Subarna Thakur | <i>BMC Complementary Medicine and Therapies</i> , 21:89. Impact Factor 3.6              | 2021 |
|                    | <i>Clinical Microbiology and Infection</i> , 27(3):472. e1-472. e5. Impact Factor- 8.06 | 2021 |

**Research Projects Details:**

| Title of the Project   | PI                 | Sponsored by | Year of Sanction | Duration | Budget (Rs.) |
|--|--------------------|--------------|------------------|----------|--------------|
| Investigation of the Role of Horizontal gene transfer in shaping the microbial | Dr. Subarna Thakur | NBU          | 2020             | 1 year   | 1,50,000     |

| <b>Title of the Project</b>   | <b>PI</b>            | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Duration</b> | <b>Budget (Rs.)</b> |
|---|----------------------|---------------------|-------------------------|-----------------|---------------------|
| adaptation to xenobiotics in <i>Pseudomona</i>  |                      |                     |                         |                 |                     |
| An ensemble approach for integration of gene regulatory network and protein protein interaction network based on machine learning technique | Dr. Chiranjib Sarkar | NBU                 | 2020                    | 1 year          | 1,50,000            |



## DEPARTMENT OF BIOTECHNOLOGY

### About the Department:

The Department of Biotechnology, University of North Bengal was established in 2001 and it promotes and facilitates research in microbiology, biochemistry, molecular biology, cell biology, and molecular genetics. The Department provides technical support for research and a nucleus for interdisciplinary research and training initiatives at University of North Bengal.

The Department of Biotechnology spearheads in research and educational programs in cell and molecular biosciences by leading research initiatives to increase the competitiveness of researchers at North Bengal University in this critical area.

### Courses Offered:

- M. Sc.
- M. Phil.
- Ph. D.

### Research Focus:

- Antimicrobial resistance
- Plant Biotechnology
- Cell and developmental biology
- Gut Microbiome
- Genetic Engineering
- Nano biotechnology

### Student Strength:

| Course                 | Male | Female | Total | Gen | SC | ST | OBC-A | OBC-B | PH |
|------------------------|------|--------|-------|-----|----|----|-------|-------|----|
| PG 1 <sup>st</sup> Sem | 04   | 05     | 09    | 02  | 00 | 01 | 01    | 00    | 05 |
| PG 3 <sup>rd</sup> Sem | 04   | 05     | 09    | 01  | 00 | 02 | 02    | 00    | 04 |

### Details of Faculties:

| Name                     | Qualification | Designation     | Email Address             |
|--------------------------|---------------|-----------------|---------------------------|
| Dr. Ranadhir Chakraborty | Ph.D.         | Professor       | ranadchakrabort@nbu.ac.in |
| Dr. Dipanwita Saha       | Ph.D.         | Professor       | dipanwitasaha@nbu.ac.in   |
| Dr. Shilpi Ghosh         | Ph.D.         | Professor       | shilpighosh@nbu.ac.in     |
| Dr. Anoop Kumar          | Ph.D.         | Asst. Professor | anoop@nbu.ac.in           |
| Dr. Manab Deb Adhikari   | Ph.D.         | Asst. Professor | madhikari@nbu.ac.in       |

### Details of Non-Teaching Staff:

| Name                | Qualification | Designation      |
|---------------------|---------------|------------------|
| Sri Sujoy Chowdhury | Art Graduate  | Office Assistant |
| Sri Raja Bauri      | VIII pass     | Sr. Peon         |

| <b>Name</b>                     | <b>Qualification</b>             | <b>Designation</b>       |
|---------------------------------|----------------------------------|--------------------------|
| Sri Deepak Das                  | H.S. Pass                        | Lab. Attendant           |
| Sri Amrinder Pandey (COFAM)     | M.Sc. (Horticulture)<br>Perusing | Practical Demonstrator   |
| Sri Ranjan Sarkar (COFAM)       | B.A.                             | Office Assistant         |
| Smt. Swati Chowdhury<br>(COFAM) | B. Sc.                           | Laboratory Attendant     |
| Sri Anil Sarki (COFAM)          | VIII                             | Field Man                |
| Sri Niranjana (COFAM)           | B.A.                             | Multipurpose field Staff |
| Sri Maloy Singha (COFAM)        | H.S.                             | Multipurpose field Staff |
| Sri Biswajit Singh (COFAM)      | B.A.                             | Multipurpose field Staff |
| Sri Subhash (COFAM)             | VIII                             | Multipurpose field Staff |
| Sri Arup Ghosh (COFAM)          | M.A.                             | Multipurpose field Staff |

#### **Details of Research Scholars:**

| <b>Name</b>    | <b>Fellowship Status</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> | <b>Date of Registration</b> |
|----------------|--------------------------|--------------------------|---------------|------------------------|-----------------------------|
| Smriti Pradhan | CSIR-SRF                 | Prof. D Saha             | Female        | 24.01.2018             | 04.12.2018                  |
| Susmita Das    | SVMCM                    | Prof. D Saha             | Female        | 10.01.2020             | N/A                         |
| Sudeb Sarkar   | CSIR-SRF                 | Dr. Anoop Kumar          | Male          | 01.11.2017             | 21.01.2020                  |
| Ankita Dutta   | SVMCM                    | Dr. Anoop Kumar          | Female        | 18.09.2017             | 22.01.2020                  |
| Divya Limbu    | SVMCM                    | Dr. M D Adhikari         | Female        | 02.01.2020             | N/A                         |
| Chandana Basak | CSIR-SRF                 | Prof. R Chakraborty      | Female        | 01.08.2018             | 27.11.2020                  |
| Subhajit Sen   | DST-<br>INSPIRE<br>SRF   | Prof. R Chakraborty      | Male          | 15.09.2016             | 04.12.2018                  |
| Partha Barman  | CSIR-SRF                 | Prof. R Chakraborty      | Male          | 14.09.18               | 27.11.2020                  |
| Vijeta Rai     | CSIR-SRF                 | Prof. S Ghosh            | Female        | 15.08.2015             | 11.01.2016                  |
| Arijita Basak  | NBU-JRF                  | Prof. Si Ghosh           | Female        | 27.07.2018             | 18.09.2017                  |
| Anasuya Karjee | CSIR-JRF                 | Prof. R Chakraborty      | Female        | 02.01.2020             | 02.01.2020                  |

#### **Details of Project Scholars:**

| <b>Name</b>      | <b>Project Details</b>     | <b>Supervisor's Name</b>      | <b>Gender</b> | <b>Date of Joining</b> |
|------------------|----------------------------|-------------------------------|---------------|------------------------|
| Sriradha Ganguli | WBPCB<br>Sponsored Project | Prof. Ranadhir<br>Chakraborty | Female        | 01.01.2020             |

**Details of Ph. D. Students without Fellowship:**

| Name                 | Supervisor's Name  | Gender | Date of Joining | Date of Registration |
|----------------------|--------------------|--------|-----------------|----------------------|
| Dipanwita Ghosh      | Dr. Dipanwita Saha | Female | 08.01.2016      | 25.03.2019           |
| Anindita Chaktaborty | Dr. Dipanwita Saha | Female | 17.12.2013      | 17.12.2018           |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name                       | Details of the Seminars/Conferences  | Date          | Title of the paper presented   |
|----------------------------|--|---------------|--|
| Prof. Ranadhir Chakraborty | One day State-level Web Seminar on Global Pandemic and its impact: The medical and the pedagogical, organized by Santipur College, Nadia | 15.06.2022    | 'Exploration and understanding of the COVID-19'                                      |
|                            | International Webinar on COVID-19 - The current scenario, organized by St. Xavier's College (Autonomous), Kolkata                        | 02-04.07.2020 | 'Insidious SARS-CoV-2: its Molecular peculiarities and genomic plasticity'           |
|                            | International Webinar titled In search of origin, prevention and possible cure of COVID-19, organized by Vijoygarh College, Kolkata      | 18.07.2020    | 'Sneaking SARS-CoV-2: Molecular distinctiveness and Mutation Spectra'                |
|                            | National level Webinar on Challenges in Environmental Microbiology, organized by Chakdah College   | 31.08.2020    | 'Antibiotic residues in the Environment and the ways to its mitigation'              |
|                            | National Webinar on Impact of Viral diseases challenging Human lives, organized by West Bengal State University                          | 18.08.2020    | 'SARS-CoV-2: Trends of mutation accumulation'  |
|                            | National Workshop on Functional foods, Bioactive compounds and phytochemicals for better nutrition Uttar Banga Krishi Vishwavidyalaya    | 10.12.2020    | 'Future innovations in Food based industries with special reference to North Bengal' |
|                            | National Webinar on COVID-19 & Vaccine preparedness, organized by Ministry of Culture, GoI   | 14.01.2021    | 'New strains of SARS-CoV-2 and vaccine production platforms'                         |

| Name                   | Details of the Seminars/Conferences   | Date          | Title of the paper presented |
|------------------------|---|---------------|------------------------------|
| Dr. Manab Deb Adhikari | International webinar on Impact of Covid-19 on Higher Education & A quest for Possible Alternatives, organized by Sukanta Mahavidyalaya                         | 22-24.06.2020 | Attended                     |
|                        | Science Leadership Workshop, organized by Central University of Punjab  | 22-28.06.2020 | Attended                     |
|                        | Emerging Trends in Biotechnological Advancement: Challenges and Prospects in Tackling Human Diseases, organized by NIT Warangal                                 | 13-17.07.2020 | Attended                     |
| Dr. Anoop Kumar        | India International Science Festival, organized by Ministry of Science and Technology   | 22-25.12.2020 | Attended                     |
|                        | Covid-19 and Ayurveda: Principal, Practice, and Policy, organized by Amity University, Uttar Pradesh  | 21.05.2020    | Attended                     |
|                        | Know your Intellectual Property Rights, organized by AIC-ADT Baramati Foundation in Association with Shardabhai Pawar Mahila Arts, Commerce and Science College | 11.06.2020    | Attended                     |
|                        | Science Leadership Workshop, organized by Central University Punjab   | 22-28.06.2020 | Attended                     |

### Publications:

| Name of the Author  | Publication Details  | Year |
|---|--|------|
| <b>Professor Ranadhir Chakraborty</b>   |  |      |
| Ranjan VK, Mukherjee S, Thakur S, Gupta K, Chakraborty R.                                       | <i>Clin Microbiol Infect.</i> 4: S1198-743X (20)30667-4. Impact Factor: 7.18 | 2020 |
| Roy C, Mandal SM, Mondal SK, Mukherjee S, Mapder T, Ghosh W, Chakraborty R.                     | <i>Genomics.</i> 112(6):5331-5342<br>Impact Factor: 6.2                      | 2020 |
| Bhattacharya S, Roy C, Mandal S, Sarkar J, Rameez MJ, Mondal N, Mapder T, Chatterjee S, Pyne P, | <i>FEMS Microbiol Lett.</i> 16;367(19):<br>Impact Factor: 2.71               | 2020 |

| Name of the Author  | Publication Details   | Year |
|---|---|------|
| Alam M, Haldar PK, Roy R, Fernandes S, Peketi A, Chakraborty R, Mazumdar A, Ghosh   |   |      |
| Roy C, Rameez MJ, Haldar PK, Peketi A, Mondal N, Bakshi U, Mapder T, Pyne P, Fernandes S, Bhattacharya S, Roy R, Mandal S, O'Neill WK, Mazumdar A, Mukhopadhyay SK, Mukherjee A, Chakraborty R, Hallsworth JE, Ghosh W. | <i>Nature Sci Rep.</i> Apr 3;10(1):5917.<br>Impact Factor: 4.12   | 2020 |
| Paria K, Paul D, Chowdhury T, Pyne S, Chakraborty R, Mandal SM.   | <i>Transl Med Commun.</i> 5(1):21.<br>Impact Factor: 4.2  | 2020 |
| Mandal SM, Chakraborty S, Sahoo S, Pyne S, Ghosh S, Chakraborty R.  | <i>Infectious Disorders - Drug Targets.</i> 20(1):69-75. Impact Factor: 2.8   | 2020 |
| Manna S, Chowdhury T, Chakraborty R, Mandal SM.   | <i>Probiotics Antimicrobial Proteins.</i> 23:1-13.<br>Impact Factor: 3.53   | 2020 |
| Roy C., Mondal N., Peketi A., Fernandes S., Mapder T., Prabhakar S P., Haldar P.K., Nandi N., Bhattacharya, T., Mazumdar, A., Chakraborty, R., Ghosh, W.  | <i>J Earth Syst Sci</i> 129, 157 (2020).<br><a href="https://doi.org/10.1007/s12040-020-01423-y">https://doi.org/10.1007/s12040-020-01423-y</a><br>Impact Factor: 1.83                                      | 2020 |
| <b>Prof. Dipanwita Saha</b>   |   |      |
| Karmakar, A., Saha D., Saha A.  | In book: <i>Organisms and Environment</i> ,<br>Educreation Publishing   | 2020 |
| Sarkar T. Saha A.and Saha D.  | <i>Alochana Chakra Journal</i> , Vol. IX, Issue V   | 2020 |
| Mudi P.K.,Pradhan, S., Sahu A., Saha D.and Biswas, B.   | <i>Applied Microbiology: Theory &amp; Technology</i><br>Vol 2, Issue 1  | 2021 |
| <b>Prof. Shilpi Ghosh</b>   |   |      |
| Ghosh S, Lepcha K, Basak A, Mahanty A   | Thermophiles and thermophilic hydrolases, In book: <i>Physiological and Biotechnological Aspects of Extremophiles</i> , Ed: Salwan R and Sharma V, Academic Press, London, UK, pp:21-37.                    | 2020 |
| Mazumdar D, Saha S P, Ghosh S   | Isolation, screening and application of a potent PGPR for enhancing growth of chickpea as affected by nitrogen level, <i>International Journal of Vegetable Science</i> 26:4, 333-350.<br>Impact Factor:1.0 | 2020 |

| Name of the Author  | Publication Details   | Year |
|---|---|------|
| Mazumdar D, Saha S P, Ghosh S   | RSM based optimization of plant growth promoting rhizobacteria and nitrogen dosage for enhanced growth and yield of mustard ( <i>Brassica campestris</i> L.), <i>Journal of Plant Nutrition</i> 44:15, 2228-2244. Impact Factor:1.69                              | 2021 |
| Gavande PV, Basak A, Sen S, Lepcha K, Murmu N, Rai V, Mazumdar D, Saha SP, Das V, Ghosh S | Functional characterization of thermotolerant microbial consortium for lignocellulolytic enzymes with central role of Firmicutes in rice straw depolymerization, <i>Nature Scientific Reports</i> , 11:3032. Impact Factor: 4.12                                  | 2021 |
| Bomzan P, Roy N, Sharma A, Rai V, Ghosh S, Kumar A, Roy MN                                | Molecular encapsulation study of indole-3-methanol in cyclodextrins: Effect on antimicrobial activity and cytotoxicity, <i>Journal of Molecular Structure</i> , 1225:129093. Impact Factor: 3.19  | 2021 |
| Singh K K, Saha S P, Kadiravana R C, Mazumdar D, Rai V, Ghosh S                           | Ammonium metabolism in <i>Selaginella bryopteris</i> in response to dehydration-rehydration and characterisation of desiccation tolerant, thermostable, cytosolic glutamine synthetase from plant, <i>Functional Plant Biology</i> 48:257-267, Impact Factor:3.10 | 2021 |
| <b>Dr. Manab Deb Adhikari</b>   |   |      |
| Adhikari M. D. and Tiwary B. K.   | Book chapter in “ <i>Microbes, Environment and Human Welfare</i> ”, Edited by:Tilak Saha and Bipranch Kumar Tiwary, ISBN: 978-1-53617-945-3   | 2020 |
| Tiwary B. K., Nag. S and Adhikari M. D.   | Book chapter in “ <i>Microbes, Environment and Human Welfare</i> ”, Edited by:Tilak Saha and Bipranch Kumar Tiwary, ISBN: 978-1-53617-945-3   | 2020 |
| <b>Dr. Anoop Kumar</b>  |   |      |
| S. Dutta, T K Jana, S K Halder, R Maiti, A Dutta, A Kumar and K. Chatterjee               | <i>Chemistry Select</i> , Impact Factor: 1.8  | 2020 |
| M Lala, D Modak, S Paul, I Sarkar, A Dutta, A Kumar, S Bhattacharjee and A Sen            | <i>Bulletin of the National Research Centre</i>   | 2020 |

| Name of the Author  | Publication Details                     | Year |
|---|---|------|
| S Some, B Sarkar, K Biswas, T K Jana, D Bhattacharjya, P Dam, R Mondal, A Kumar, A K Deb, A Sadat, S Saha, A Kati, I Ocsoy, O L Franco, A Mandal, S Mandal, A K Mandal and I A Ince | <i>RSC Advance</i> , Impact Factor: 3.1 | 2020 |

### Research Projects Details:

| Title of the Project  | PI                | Sponsored by | Year of Sanction | Duration    | Budget (Rs.) |
|---|-------------------|--------------|------------------|-------------|--------------|
| Water quality monitoring and metagenomic analyses of waters from selected Rivers, Lakes, and Ground water sources of Northern West Bengal, India, with a strategy to study impact of pollution and assess the load of antimicrobial-resistance genes in the environment | Dr. R Chakraborty | WBPCB        | 2019             | 2 years     | 7,15,000     |
| Exploring gut-microbiome of intestine breathing fish, <i>Lepidocephalichthys guntea</i> , with metagenomic and metatranscriptomic data for evaluating the role of bacteria in fish gut function and immunity  | Dr. R Chakraborty | NBU          | 2020             | 1 year      | 1,50,000     |
| Evaluation and characterization of potential anticancer activity of <i>Litchi chinensis</i> aril juice against glucose starvation hepatocellular carcinoma cell line  | Dr. Anoop Kumar   | NBU          | 2020             | 2020 – 2021 | 1,50,000     |

## DEPARTMENT OF BOTANY

### About the Department:

The Department of Botany of University of North Bengal was initiated in the summer of 1984. Since then the Department flourished tremendously with tireless efforts of faculties, staff and students. The Department has marked its golden presence by its remarkable achievements in shaping the scientific and academic pursuit of Sub-Himalayan West Bengal, Sikkim and neighbouring countries like Nepal, Bhutan and Bangladesh. Though, being a University situated in a remote location with limited resources and infrastructure, our University as well as the Department is second to none when it comes to producing quality students, researchers and scientists.

The voyage started off in the year 1982 with the decision of the University authority to have two new Departments namely; Botany and Zoology under the Centre for Life Sciences, the then a unit exclusively for R&D. The Department has received Special assistance program (SAP-DRS) for three phases (2002-2007, 2007-2012 and 2013-2018) as well as DST-FIST assistance in 2003. With the support from the Department of Environment and Forests, Govt. of India, a Botanic garden has been set up while with the financial support from the Department of Biotechnology, Ministry of Science and Technology, Govt. of India, infrastructural facilities including Immuno-Phytopathology Laboratory, Tea Germplasm Bank, Rice Germplasm Bank and rice Breeding for improvement, Antisera Reserves for Plant pathogens, Mushroom Production Unit have been established. With the financial support of DST, West Bengal and National Medicinal Plants Board a beautiful garden of Medicinal Plants has been developed in this campus. This year the University has uplifted this as a Centre for Conservation and Utilization of Medicinal and Aromatic Plants. The Department has been rendering bioinformatics facility in this University with the support from DBT, Govt. of India.

### Courses Offered:

- M. Sc.
- M. Phil.
- Ph. D.

### Research Focus:

- Cytogenetics
- Molecular Plant Pathology
- Taxonomy
- Microbiology
- Plant Biochemistry
- Biosystematics of Angiosperms

### Student Strength:

| Course | Male | Female | Total | Gen | SC | ST | OBC-A | OBC-B | PH |
|--------|------|--------|-------|-----|----|----|-------|-------|----|
| M. Sc. | 28   | 50     | 78    | 17  | 19 | 9  | 9     | 5     | 0  |



**Faculty Details:**

| <b>Name</b>              | <b>Qualification</b>            | <b>Designation</b> | <b>Email</b>              |
|--------------------------|---------------------------------|--------------------|---------------------------|
| Prof. Aniruddha Saha     | M.Sc, Ph.D                      | Professor          | asahanbu@yahoo.co.in      |
| Prof. Arnab Sen          | M.Sc, Ph.D                      | Professor          | senarnab_nbu@hotmail.com  |
| Prof. Subhas Ch. Roy     | M.Sc, M. Tech (Biotech)., Ph.D. | Professor          | subhascr2011@gmail.com    |
| Dr. Monoranjan Chowdhury | M.Sc, Ph.D                      | Professor          | mono_malda@yahoo.co.in    |
| Palash Mandal            | M.Sc, Ph.D                      | Assoc. Professor   | pmandalbotppprl@nbu.ac.in |
| Dr. Jnan Bikash Bhandari | M.Sc, Ph.D                      | Assoc. Professor   | bhandarijnan@gmail.com    |
| Dr. Swarnendu Roy        | M.Sc, Ph.D                      | Asst. Professor    | swarnendubotany@nbu.ac.in |
| Dr. Piyush Mathur        | M.Sc, Ph.D                      | Asst. Professor    | piyushmathur316@nbu.ac.in |

**Details of Non-Teaching Staff:**

| <b>Name</b>        | <b>Qualification</b>    | <b>Designation</b>   |
|--------------------|-------------------------|----------------------|
| Susanta Roy        | HS, Diploma in Pharmacy | Lab Assisstant       |
| Nayan Ranjan Ghosh | Madhyamik               | Lab Attendant (Gr-I) |
| Sumon Chatterjee   | MBA, Ph. D.             | Sr. Assisstant       |

**Details of Research Scholars:**

| <b>Name</b>           | <b>Fellowship Status</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> |
|-----------------------|--------------------------|--------------------------|---------------|------------------------|
| Indrajit Singha       | BSR                      | Prof. S C Roy            | Male          | 1.12.2015              |
| Swernendra Banerjee   | CSIR-SRF                 | Prof. Arnab Sen          | Male          | 8.11.2019              |
| Sandipan Ghosh        | SVMCM                    | Prof. Arnab Sen          | Male          | 01.01.2020             |
| Sutapa Datta          | SVMCM                    | Prof. Arnab Sen          | Female        | 01.01.2020             |
| Soumita Bhattacharjee | SVMCM                    | Prof. Arnab Sen          | Female        | 03.01.2019             |
| Tanushree Sarkar      | BSR-UGC SRF              | Prof. A Saha             | Female        | 21.05.2015             |
| Preeti Mangar         | BSR-UGC SRF              | Prof. A Saha             | Female        | 21.12.2015             |
| Arup Karmakar         | SRF BSR (UGC)            | Prof. A Saha             | Male          | 21.12.2015             |
| Asit Ray              | CSIR-JRF                 | Prof. A Saha             | Male          | 16.11.2018             |
| Subhrajyoti Saha      | UGC-JRF                  | Prof. A Saha             | Male          | 01.07.2019             |
| Suyojna Tamang        | NBU Fellowship           | Prof. A Saha             | Female        | 26.09.2019             |
| Kalyan Roy            | UGC-JRF                  | Prof. A Saha             | Male          | 02.01.2020             |
| Enakshi Sadhu         | State Fellowship         | Prof. A Saha             | Female        | 02.01.2020             |

| <b>Name</b>         | <b>Fellowship Status</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> |
|---------------------|--------------------------|--------------------------|---------------|------------------------|
| Ritabrita Saha      | DBT BET JRF              | Prof. A Saha             | Female        | 01.02.2020             |
| Biswajit Paul       | NFOBC JRF                | Prof. A Saha             | Male          | 09.11.2020             |
| Ankita Roy          | UGC-JRF                  | Prof. A Saha             | Female        | 09.11.2020             |
| Aaratrik Pal        | UGC- JRF                 | Prof. M Chowdhury        | Male          | 01.08.2019             |
| Keya Modak          | SVMCM                    | Prof. M Chowdhury        | Female        | 02.01.2019             |
| Divya Chouhan       | UGC-JRF                  | Dr. P Mandal             | Female        | 09.08.2019             |
| Kushankur Sarkar    | NFSC                     | Dr. P Mandal             | Male          | 03.01.2020             |
| Dipayan Das         | UGC-SRF                  | Dr. P Mandal             | Male          | 25.04.2017             |
| Aparna Sarkar       | NFSC                     | Dr. P Mandal             | Female        | 12.03.2021             |
| Priyankar Roy       | RGNF                     | Dr. P Mandal             | Male          | 21.12.2015             |
| Ashis Sarkar        | UGC-JRF                  | Dr. S Roy                | Male          | 26.07.2019             |
| Mahima Misti Sarkar | UGC-JRF                  | Dr. S Roy                | Female        | 24.07.2019             |
| Biswanath Karmakar  | SVMCM                    | Dr. S Roy                | Male          | 13.03.2021             |
| Dibakar Ghosh       | SVMCM                    | Dr. S Roy                | Male          | 11.03.2021             |
| Prabha Toppo        | UGC-MANF                 | Dr. P Mathur             | Female        | 02.01.2020             |
| Rewaj Subba         | CSIR-JRF                 | Dr. P Mathur             | Male          | 02.05.2021             |

#### **Details of Project Scholar**

| <b>Name</b>   | <b>Project Name</b>  | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Admission</b> |
|---------------|--|--------------------------|---------------|--------------------------|
| Salman Haydar | Improving the productivity in sericulture by oligopeptides and plant growth regulator (PGR) based post-harvest elicitation of mulberry leaves                  | Dr. Palash Mandal        | Male          | 02.01.2019               |
| Suravi Ghosh  | Molecular characterization and assessment of the efficacy of low molecular weight peptides isolated from mulberry leaves against flacherie disease of silkworm | Dr. Palash Mandal        | Female        | 11.12.2019               |

#### **Details of PhD Scholars (Without Scholarship):**

| <b>Name</b>           | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Admission</b> |
|-----------------------|--------------------------|---------------|--------------------------|
| Pankaj Shil           | Prof. S C Roy            | Male          | 01.08.2018               |
| Shukdeb Sarkar        | Prof. S C Roy            | Male          | 01.01.2020               |
| Ravindra Kumar Karn   | Prof. A Sen              | Male          | 31.03.2021               |
| Prashan Kumar Chhetri | Dr. J B Bhandari         | Male          | 23.09.2011               |
| Sujoy Kumar Sen       | Dr. P Mandal             | Male          | 05.01.2014               |

|                  |                   |        |            |
|------------------|-------------------|--------|------------|
| Debanshu Mallick | Prof. M Chowdhury | Male   | 01.01.2020 |
| Deepika Chettri  | Prof. M Chowdhury | Female | 04.12.2018 |
| Satyajit Sarkar  | Prof. M Chowdhury | Male   | 08.01.2016 |
| Yogesh Shankar   | Prof. M Chowdhury | Male   | 07.01.2016 |
| Banani Roy       | Prof. M Chowdhury | Female | 15.03.2021 |

**Details of Seminar/Conferences /Webinar Attended:**

| <b>Name</b>                | <b>Details of the Seminars/Conferences</b>   | <b>Date</b>   |
|----------------------------|--|---------------|
| Dr. Jnan Bikash Bhandari   | Webinar on “Sustainable development of plant resources and conservation of threatened plants in botanic gardens”   | 19-21.05.2021 |
| Dr. Piyush Mathur          | Two days National e-conference on “Plant Science Research: Relevance, Funding, Challenges and Opportunities”, organized by Department of Botany, Hansraj College in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi | 16-17.01.2021 |
| Dr. Piyush Mathur          | Online Workshop on “Recent Advances in Environmental Biotechnology”<br>Jointly organized by Department of Civil Engineering and School of Environmental Science & Engineering, IIT Kharagpur   | 05-09.10.2020 |
| Dr. Piyush Mathur          | Online workshop on “MOOCs, Online Courses & Open Educational Resources on the theme ‘ICT Tools for Online Teaching’”<br>Organized by Centre for Professional Development in Higher Education (CPDHE) UGC-Human Resource Development Centre University of Delhi         | 23-29.05.2020 |
| Dr. Swarnendu Roy          | Online workshop on “MOOCs, Online Courses & Open Educational Resources on the theme ‘ICT Tools for Online Teaching’”<br>Organized by Centre for Professional Development in Higher Education (CPDHE) UGC-Human Resource Development Centre University of Delhi         | 23-29.05.2020 |
| Prof. Monoranjan Chowdhury | National Webinar on “Jal Shakti Campus and Jal Shakti Gram: SDGs for Natural Resources During Covid-19 and Beyond”   | 09.08.2020    |
| Prof. Monoranjan Chowdhury | Role of NSS & Practical field Experience<br>Organized by Surya Sen Mahavidyalaya   | 05.05.2021    |

**Publications:**

| <b>Name of Author</b>   | <b>Name of Book/Journal/Volume, Impact Factor</b>   | <b>Year</b> |
|---|---|-------------|
| <b>Reaserch Papers</b>  |   |             |
| <b>Roy S C, Shil P</b>  | Assessment of Genetic Heritability in Rice Breeding Lines Based on Morphological Traits and Caryopsis Ultrastructure. <i>Scientific Reports, Nature Group</i> , 10:7830   | 2020        |
| Sarkar T, <b>Saha A</b> , Saha D  | <i>Fusarium equiseti</i> : an emerging pathogen of fruit rot disease of <i>Trichosanthes dioica</i> in Sub-Himalayan West Bengal, <i>Alochana Chakra Journal</i> , IX, V  | 2020        |
| Lala MD, Modak S, Paul I, Sarkar A, Dutta A, Kumar S, Bhattacharya M and <b>A Sen</b> | Potent bioactive methanolic extract of wild orange ( <i>Citrus macroptera</i> Mont.) Shows antioxidant, anti-inflammatory, and antimicrobial properties in vivo, in vitro, in silico studies, <i>Bulletin of the National Research Centre</i> | 2020        |
| Das D, Basak S, Chouhan D, <b>Mandal P</b> , Sikdar S, Roy MN                         | Green Synthesis of Cu <sup>2+</sup> doped ZnO nanoparticles to investigate their Structural, Optical, Morphological properties and Antifungal activities, <i>Journal of Chemical, Biological and Physical Sciences</i>                        | 2020        |
| Das D, <b>Mandal P</b>  | Use of biogenic silver nanoparticles in enhancing shelf life of <i>Morus alba</i> L. at post-harvest stage, <i>Scientific Reports</i> , Impact Factor: 4.379  | 2020        |
| Das D, Roy SS, <b>Mandal P</b>  | Investigation of protein profile of nano-silver preserved mulberry leaves and silkworm larvae fed with the same leaves, <i>Applied Nanoscience</i> , Impact Factor: 3.674   | 2020        |
| Saha M, <b>Bhandari JB</b>  | Morphological & Biochemical Characterization of Rhizospheric Bacteria of some Ferns of Darjeeling District, <i>Indian Fern Journal</i> (37)   | 2020        |
| Dey M, <b>Bhandari JB</b>   | Study of spore morphology of some Pteridophytes occurring in Jalpaiguri District, West Bengal (India), <i>Indian Fern Journal</i> (37)  | 2020        |
| Mandal S, <b>Bhandari JB</b>  | Taxonomic investigation of some members of Fabaceae (subfamily-Caesalpinioideae) with special reference to pollen morphology, <i>Indian Fern Journal</i> (37)   | 2020        |
| Sarkar A, <b>Roy S</b>  | Effect of phenol on biochemical status of an aquatic fern <i>Salvinia natans</i> . <i>Environmental and Experimental Biology</i> 18: 229–236.   | 2020        |
| <b>Mathur P, Roy S</b>  | Nanosilica facilitates silica uptake, growth and stress tolerance in plants, <i>Plant Physiology and Biochemistry</i> 157:114–127. Impact Factor: 4.2   | 2020        |

| <b>Name of Author</b>   | <b>Name of Book/Journal/Volume, Impact Factor</b>   | <b>Year</b> |
|---|---|-------------|
| Mondal S, Basu SK,<br><b>Chowdhury M</b>  | A new species of <i>Calamus</i> (Arecaceae) from Eastern Himalaya India, <i>Turczaninowia</i> 23(3), Impact Factor: 0.35  | 2020        |
| Mondal S, Basu SK,<br><b>Chowdhury M</b>  | <i>Salacca secunda</i> Griff. (Arecaceae) : A New addition to the Flora of West Bengal, India, <i>Plant Archives</i> 20   | 2020        |
| <b>Roy S C,</b><br>Chowdhury A  | Comparative ultrastructure of caryopsis and leaf surface anatomy in wild rice <i>Oryza coarctata</i> and <i>O. rufipogon</i> through Scanning Electron Microscope (SEM), <i>Open Journal of Plant Science</i> 6(1):030-041.   | 2021        |
| <b>Roy SC,</b> Shil P   | Black Rice Developed Through Interspecific Hybridization ( <i>O. sativa</i> x <i>O. rufipogon</i> ): Origin of Black Rice Gene from Indian Wild Rice, <i>Bio Rixiv</i> 2020.12.25.423663  | 2021        |
| Karmakar A,<br>Sarkar, T,<br>Chakraborty P,<br>Biswas KK, <b>Saha A,</b> Saha D | Genetic variability of tomato leaf curl New Delhi virus infecting cucumber in sub-Himalayan plains in Eastern India, <i>International Journal of Agricultural Technology</i>  | 2021        |
| Kar P, Banerjee S,<br>Chhetri A, <b>Sen A</b>                                   | Synthesis, physicochemical characterization and biological activity of synthesized Silver and Rajat Bhasma nanoparticles using Clerodendrum inerme, <i>Journal of Phytology</i>   | 2021        |
| Das D, Ghosh D,<br><b>Mandal P</b>  | Preservative potential of biosynthesized silver nanoparticles: prevention of xylem occlusion and microbial proliferation at postharvest stage of preservation, <i>Environmental Science and Pollution Research</i> , Impact Factor: 4.223                                       | 2021        |
| Das D, Haydar S,<br><b>Mandal P</b>   | Impact of Physical Attributes on Proficient Phytosynthesis of Silver Nanoparticles Using Extract of Fresh Mulberry Leaves: Characterization, Stability and Bioactivity Assessment. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , Impact Factor: 3.543 | 2021        |
| Chouhan D,<br><b>Mandal P</b>   | Applications of chitosan and chitosan based metallic nanoparticles in Agrosiences-A review, <i>International Journal of Biological Macromolecules</i> , Impact Factor: 6.953  | 2021        |
| Das D, Ghosh D,<br><b>Mandal P</b>  | Preservative potential of biosynthesized silver nanoparticles: prevention of xylem occlusion and microbial proliferation at postharvest stage of preservation, <i>Environmental Science and Pollution Research</i> , Impact Factor: 4.223                                       | 2021        |

| <b>Name of Author</b>                                     | <b>Name of Book/Journal/Volume, Impact Factor</b>  | <b>Year</b> |
|---|--|-------------|
| Saha M, <b>Bhandari JB</b>                                | Anti-bacterial activities of activities of the plant extracts and biochemical characterization of associated microbes of <i>Angiopteris evecta</i> (g. Forst.) Hoffm. and <i>Tectaria coadunata</i> (J. Sm.) C. SM.) C. CHR, <i>Indian Fern Journal</i> 38                     | 2021        |
| Singh P, <b>Bhandari JB</b>                               | Phytochemical evaluation and antioxidant activity of <i>Pteris biaurita</i> L. from Darjeeling District, West Bengal, <i>Indian Fern Journal</i> 38  | 2021        |
| Dey M, <b>Bhandari JB</b>                                 | Diversity and ethnomedicinal pteridophytes of Jalpaiguri District, West Bengal, <i>Indian Fern Journal</i> 38  | 2021        |
| Gupta SK, <b>Bhandari JB</b>                              | Ethno-medicinal properties of <i>Dryynaria quercifolia</i> (L.) J. Smith, <i>Indian Fern Journal</i> 38  | 2021        |
| Chakraborty R, Sabruna R, Roy R, Majumdar S, <b>Roy S</b> | Banana pseudostem substitution in wheat flour biscuits enriches the nutritional and antioxidative properties with considerable acceptability, <i>SN Applied Sciences</i> 3:75  | 2021        |
| <b>Mathur P, Roy S</b>                                    | Insights into the plant responses to drought and decoding the potential of root associated microbiome for inducing drought tolerance, <i>Physiologia Plantarum</i> 172 (2), 1016-1029  | 2021        |
| Sarkar MM, <b>Roy S</b>                                   | Evaluation of Proline-Ascorbate Mixture (PAM) in Alleviation of NaCl Induced Stress in <i>Vigna radiata</i> (L.) Wilczek, <i>Russian Agricultural Sciences</i> 47:21-31  | 2021        |
| <b>Book Chapters</b>                                      |  |             |
| Karmakar A, Saha D, <b>Saha A.</b>                        | Mini review on Begomoviruses infecting cultivated vegetable crops in India, <i>In book: Organisms and Environment</i> , Educreation Publishing   | 2020        |
| Sarkar B, <b>Roy S</b>                                    | Ion transporter genes from wild relatives of cereals hold the key for the development of salinity tolerance, <i>Sustainable Agriculture in the Era of Climate Change</i> , Roychowdhury R, Choudhury S, Hasanuzzaman M, Srivastava S (Eds.) pp. 187–209.                       | 2020        |
| <b>Mathur P,</b><br>Pramanik S                            | Prospective Role of Melatonin in Signaling and Alleviation of Stress in Plants, Neurotransmitters <i>in Plant Signaling and Communication</i> , Baluška F, Mukherjee S, Ramakrishna A (Eds.) pp 213-240. Springer, Cham, Springer Nature Switzerland AG 2020 978-3-030-54478-2 | 2020        |
| Roy A, Shaw N, <b>Saha A</b>                              | <i>Plant: A valuable resource of sustainable agriculture, food and Medicine</i> , D. Sinha, De RP (Eds.) ABS Books, Delhi  | 2021        |
| <b>Books</b>  |  |             |
| Paul P, Dhar S, Das D, <b>Chowdhury M</b>                 | Herbarium Technique: Evolution from Conventional to Digitization   | 2020        |

| <b>Name of Author</b>                                     | <b>Name of Book/Journal/Volume, Impact Factor</b>   | <b>Year</b> |
|---|---|-------------|
| Das D, Haydar S,<br>Mandal P, Ghosh S,<br><b>Mandal P</b> | Electrophoretic Separation: A laboratory Handbook<br>Publisher Name: <i>Palok Publishers</i>  | 2021        |
| <b>Mandal P</b> , Roy P,<br>Sarkar K                      | Pristine Treasure Trove: Exploring Sacred Groves of Uttar<br>Dinajpur, West Bengal, India<br>Publisher Name: <i>Lap Lambert Academic Publishing</i> | 2021        |
| Sen S K, Chouhan<br>D, <b>Mandal P</b>                    | A quick look into Chitosan and chitosan nano-conjugates: To<br>make a long story short, Publisher Name: <i>Lap Lambert<br/>Academic Publishing</i>  | 2021        |

#### Research Projects Details:

| <b>Title of the Project</b>  | <b>PI</b>        | <b>Project Duration</b> | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Budget (Rs.)</b> |
|--|------------------|-------------------------|---------------------|-------------------------|---------------------|
| Improving the productivity in sericulture by oligopeptides and plant growth regulator (PGR) based post-harvest elicitation of mulberry leaves                  | Dr. P Mandal     | 3 years                 | DST, GoWB           | 2019                    | 14,99800            |
| Molecular characterization and assessment of the efficacy of low molecular weight peptides isolated from mulberry leaves against flacherie disease of silkworm | Dr. P Mandal     | 3 years                 | Central Silk Board  | 2019                    | 24,75,000           |
| Heavy Metal stress response of some selected Pteridophytes and characterization of associated Rhizospheric microbes from Darjeeling district.                  | Dr. J B Bhandari | 1 year                  | NBU                 | 2020                    | 1,50,000            |

## DEPARTMENT OF CHEMISTRY

### About the Department:

The Department of Chemistry, University of North Bengal was established in 1963 and presently provides M. Sc., M. Phil and Ph. D. Programmes. The academic programmes are so designed as to enable the students to acquire a good understanding of classical Chemistry as well as its latest developments.

The Department was selected by the UGC for Special Assistance Programme (SAP) under Departmental Research Support (DRS) category. The Department has also received assistance from the Department of Science and Technology under its FIST programme.

The Department is well equipped with modern instruments for conducting advanced research. With a blend of experienced and young teachers, the Department is serving the students quality education in addition to innovative research activities.

### Courses Offered:

- M. Sc.
- M. Phil.
- Ph. D.

### Research Focus:

- Organic Synthesis
- Computational Chemistry
- Supramolecular Chemistry
- Chemistry of 4-Quinolone
- Hydrothermal Synthesis of single crystals
- Quantum Chemistry
- Biomimicking Chemistry
- Electro and Photocatalysis with Base Metals

### Student Strength:

| Course | Male | Female | Total | Gen | SC | ST | OBC-A | OBC-B | PH |
|--------|------|--------|-------|-----|----|----|-------|-------|----|
| M. Sc. | 32   | 16     | 48    | 11  | 1  | 6  | 6     | -     | 24 |

### Faculty Details:

| Name              | Qualification                 | Designation | Email                     |
|-------------------|-------------------------------|-------------|---------------------------|
| Anirban Misra     | M.Sc., Ph.D                   | Professor   | anirbanmisra@nbu.ac.in    |
| Mahendra Nath Roy | M.Sc., Ph.D,<br>FRSC (London) | Professor   | mahendraroy2018@nbu.ac.in |
| Pranab Ghosh      | M.Sc., Ph.D                   | Professor   | pranabchem@nbu.ac.in      |
| Biswajit Sinha    | M.Sc., Ph.D                   | Professor   | biswachem@nbu.ac.in       |
| Bhaskar Biswas    | M.Sc., Ph.D                   | Professor   | bhaskarbiswas@nbu.ac.in   |



| <b>Name</b>         | <b>Qualification</b> | <b>Designation</b>     | <b>Email</b>             |
|---------------------|----------------------|------------------------|--------------------------|
| Sajal Das           | M.Sc., Ph.D          | Assoc. Professor       | sajal.das@hotmail.com    |
| Kiran Pradhan       | M.Sc., Ph.D          | Assoc. Professor       | kpradhan@nbu.ac.in       |
| Kinkar Biswas       | M.Sc., Ph.D          | Assoc. Professor       | kinkar.chem@nbu.ac.in    |
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| Hari Sankar Das     | M.Sc., Ph.D          | Asst. Professor        | harisankardas@nbu.ac.in  |
| Sudhir Kr. Das      | M.Sc., Ph.D          | Asst. Professor        | sudhirkumardas@nbu.ac.in |
| Jayanta Nanda       | M.Sc., Ph.D          | Asst. Professor        | jayanta@nbu.ac.in        |
| Satyapriya Bhandari | M.Sc., Ph.D          | DST-Inspire<br>Faculty | satyapriya@nbu.ac.in     |

#### **Details of Officers:**

| <b>Name</b>     | <b>Qualification</b>    | <b>Designation</b>                 | <b>Email</b>           |
|-----------------|-------------------------|------------------------------------|------------------------|
| Dr. Mayukh Deb  | M.Sc., Ph.D             | Micro-Analyst.                     | microanalyst@nbu.ac.in |
| Dr. Gautam Gope | M.Sc., M.Tech.,<br>Ph.D | Electro Instrumentation<br>Officer | instofficer@nbu.ac.in  |

#### **Details of Non-Teaching Staff:**

| <b>Name</b>       | <b>Qualification</b>  | <b>Designation</b>             |
|-------------------|-----------------------|--------------------------------|
| Sankar Kr. Ghosh  | VIII                  | Record Keeper                  |
| Gurucharan Roy    | VIII                  | Laboratory Attendant, Gr. II   |
| Hiralal Tigga     | VIII                  | Senior Peon                    |
| Amardip Sharma    | Appeared in Class X   | Laboratory Attendant, Gr. II   |
| Yogendra Mandal   | VIII                  | Laboratory Attendant, Gr. III  |
| Subrata Roy       | B.Sc. & B.Sc. (Hons.) | Technical Assistant, Gr. I     |
| Dhruba Jyoti Roy  | M.Sc.                 | Technical Assistant, Gr. I     |
| Samit Mozumder    | B.Sc.                 | Technical Assistant, Gr. I     |
| Amit Sarkar       | B.Sc.                 | Technical Assistant, Gr. I     |
| Dhajen Ch. Singha | VIII                  | Senior Peon                    |
| Narayan Paul      | M.A (Double)          | Office Assistant (Contractual) |

**Details of Research Scholars:**

| <b>Name</b>         | <b>Fellowship Status</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> |
|---------------------|--------------------------|--------------------------|---------------|------------------------|
| Sudip Sarkar        | UGC-NET SRF              | Prof. A. Misra           | Male          | 12.09.2016             |
| Soumik Das          | UGC-NET SRF              | Prof. A. Misra           | Male          | 05.07.2018             |
| Shreya Mahato       | SVMCM                    | Dr. Bhaskar Biswas       | Female        | 08.04.2019             |
| Subhankar Kundu     | SVMCM                    | Dr. Bhaskar Biswas       | Male          | 12.03.2021             |
| Nilankar Diyali     | SVMCM                    | Dr. Bhaskar Biswas       | Male          | 26.03.2021             |
| Meena Chetri        | SVMCM                    | Dr. Bhaskar Biswas       | Female        | 26.03.2021             |
| Ananya Debnath      | SVMCM                    | Dr. Bhaskar Biswas       | Female        | 26.03.2021             |
| Rajani Kanta Mahato | State Fellowship         | Dr. Bhaskar Biswas       | Male          | 11.11.2019             |
| Anirban Mandal      | UGC                      | Dr. Sajal Das            | Male          | 09.07.2020             |
| Gautam Chettri      | SVMCM                    | Dr. Sajal Das            | Male          | 02.01.2020             |
| Tapas Dey           | SVMCM                    | Dr. Sajal Das            | Male          | 13.03.2021             |
| Arindam Das         | SVMCM                    | Dr. Md. Firoj Hossain    | Male          | 01.01.2020             |
| Sovan Dey           | CSIR                     | Dr. Md. Firoj Hossain    | Male          | 13.03.2021             |
| Sumit Chakraborty   | SVMCM                    | Dr. Md. Firoj Hossain    | Male          | 14.03.2021             |
| Chayan Roy          | RGNF                     | Dr. Nitish Roy           | Male          | Jan 2021               |
| N Sherpa Dorzi      | JRF-CSIR                 | Dr. Nitish Roy           | Male          | Jan 2021               |
| Sahin Reja          | SVMCM                    | Rajesh Kumar Das         | Male          | 02.01.2019             |
| Kaushik Sarkar      | UGC-JRF                  | Rajesh Kumar Das         | Male          | 17.07.2019             |
| Ku Paramanik        | CSIR-JRF                 | Dr. Hari Sankar Das      | Male          | 10.08.2020             |
| Gayetri Sarkar      | SVMCM                    | Dr. Hari Sankar Das      | Female        | 12.03.2021             |
| Pranesh Rai         | SVMCM                    | Prof. B. Sinha           | Male          | 03.01.2019             |
| Sailesh Chettri     | SVMCM                    | Prof. B. Sinha           | Male          | 02.01.2019             |
| Sudarshan Pradhan   | SVMCM                    | Prof. B. Sinha           | Male          | 02.01.2020             |
| Pritika Gurung      | SVMCM                    | Prof. B. Sinha           | Female        | 02.01.2020             |
| Anmol Chettri       | UGC/JRF                  | Prof. B. Sinha           | Male          | 02.02.2020             |

**Details of Project Scholar:**

| <b>Name</b>  | <b>Project</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> | <b>Date of Registration</b> |
|--------------|----------------|--------------------------|---------------|------------------------|-----------------------------|
| Sriparna Roy | SERB           | Prof. Anirban Misra      | Female        | 19.08.2020             | NA                          |

**Details of PhD Students (Without Fellowship):**

| Name                  | Supervisor's Name    | Gender | Date of Registration |
|-----------------------|----------------------|--------|----------------------|
| Prodipta Sarbadhikary | Prof. Anirban Misra  | Female | 24.08.2016           |
| Tanushree Sutradhar   | Prof. Anirban Misra  | Female | 07.01.2017           |
| Manoswita Homray      | Prof. Anirban Misra  | Female | 07.01.2016           |
| Subhajit Saha         | Prof Bhaskar Biswas  | Male   | N.A                  |
| Subham Mukherjee      | Prof. Bhaskar Biswas | Male   | N.A                  |
| Suvojit Roy           | Prof. Bhaskar Biswas | Male   | 03.11.2020           |
| Chanchal K. Pal       | Prof. Bhaskar Biswas | Male   | 20.1.2020            |
| Prafullya Kumar Mudi  | Prof. Bhaskar Biswas | Male   | 20.1.2020            |
| Aritra Kumar Nandi    | Dr. Sajal Das        | Male   | 04.12.2020           |
| Tapas Das             | Dr. Sajal Das        | Male   | 04.12.2020           |
| Arun Kumar Hajra      | Dr. Sajal Das        | Male   | NA                   |
| Sanjay Roy            | Dr. Sajal Das        | Male   | NA                   |
| Supriyo Kumar Barman  | Dr. Nitish Roy       | Male   | NA                   |
| Pranay Chandra Mondal | Dr. Nitish Roy       | Male   | NA                   |
| Aniruddha Paik        | Dr. Sujoy Rana       | Male   | NA                   |
| Subhajit Sarkar       | Rajesh Kumar Das     | Male   | 26.04.2021           |
| Souvik Chatterjee     | Dr. Hari Sankar Das  | Male   | NA                   |
| Madan Rajbanshi       | Dr. Sudhir Kumar Das | Male   | NA                   |
| Ziaur Rahman          | Dr. Sudhir Kumar Das | Male   | NA                   |
| Uttam Kumar Singha    | Prof. B. Sinha       | Male   | 27.11.2020           |
| Dhruba Jyoti Roy      | Prof. B. Sinha       | Male   | 19.07.2021           |

**Details of Seminars/Conferences/Webinar Organized:**

| Name of the Seminar/Conference/Webinar  | Date       | No. of Participants |
|---|------------|---------------------|
| One day International Seminar on Frontier in Chemistry 2020 on Virtual Mode   | 01.10.2020 | 300                 |
| International Conference on Confluence of Chemistry and Biology: Exploring New Frontiers on Virtual Mode                              | 12.10.2020 | 700                 |
| One-day International Seminar on "Recent Trends in Chemistry - 2020" on Virtual Mode  | 16.10.2020 | 350                 |
| Women Scientist in Chemical Science   | 05.11.2020 | 200                 |
| An invited talk by Dr. Satyapriya Bhandari, DST-Inspire Faculty, Department of Chemistry, NBU, Title: 10 Years of Quantum Dot-Complex | 15.12.2020 | 160                 |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>    | <b>Name of the Seminars/Conferences</b>  | <b>Date</b>   |
|----------------|--|---------------|
| Prof. B. Sinha | Two Days National Web-Based Conference on Environmental Determinism, Diverse Pollutions, Sources, and Controlling Management Through Sciences and Humanities, organised by Alipurduar University | 22-23.03.2021 |
|                | Two-Day National Webinar on ‘Research Structuring, Statistical Insights & Publication Strategies’ organised by NFED, Coimbatore  | 26-27.09.2020 |
|                | Webinar on “What does trustworthy peer review look like?” organized by Royal Society of Chemistry on 23 <sup>rd</sup> September 2020, organised by Royal Society of Chemistry                    | 23.09.2020    |
|                | One Day National Webinar on ‘Recent Advances in Fluorescence Spectroscopy, organised by Department of Chemistry, VU  | 23.09.2020    |

**Details of Seminar/Conferences /Webinar Attended by Research Scholar:**

| <b>Name of the Students</b> | <b>Name of the Seminars/Conferences</b>  | <b>Date</b>   |
|-----------------------------|--|---------------|
| Kaushik Sarkar              | Prof. Asim Bothra Memorial webinar, organised by Bioinformatics Center, NBU  | 30.09.2020    |
| Kaushik Sarkar              | Emerging field of chemistry and biomedical research, organised by, Department of Chemistry, CBPBU                        | 06-07.08.2020 |
| Kaushik Sarkar              | National Webinar on Scientific Approaches towards covid-19 pandemic, organised by Chandidas Mahavidyalaya                | 02.08.2020    |
| Kaushik Sarkar              | Material characterization techniques, organised by Chitkara University Research and Innovative Network                   | 20-22.07.2020 |
| Kaushik Sarkar              | International web Conference on recent advances in science (IWCRAS 2020), organised by Don Bosco College                 | 30-31.07.2020 |
| Kaushik Sarkar              | A One-day International Inter-Disciplinary Webinar on Decoding covid-19 and allied issues, organised by Islampur College | 08.09.2020    |
| Kaushik Sarkar              | One Day Online National Seminar on Chemistry of Health & Wellness, organised by Dr. Meghnadsaha College                  | 06.07.2020    |

| Name of the Students | Name of the Seminars/Conferences  | Date                     |
|----------------------|---|--------------------------|
| Kaushik Sarkar       | National webinar on application of spectroscopy in analytical chemistry, organised by Kokrajhar Govt. College   | 14.08.2020               |
| Kaushik Sarkar       | One-day International Webinar “Recent Advances in Therapeutic Use of Chemical Compounds and Drug Delivery”, organised by Mugberia Gangadhar Mahavidyalaya | 02.08.2020               |
| Kaushik Sarkar       | ACS on Campus, organised by American Chemical Society   | 10.08.2020               |
| Kaushik Sarkar       | Recent Trends in Chemistry and its Application, organised by Alipurduar College   | 07.08.2020               |
| Kaushik Sarkar       | International Webinar on Covid-19: Facts on the bench-Where are We?, organised by Kalipada Ghosh Tarai Mahavidyalaya                                      | 31.08.2020               |
| Kaushik Sarkar       | National Webinar on Dengue and its Prevention, organised by Bankura Sammilani College   | 04.08.2020               |
| Sahin Reja           | Recent Advances in Fluorescence Spectroscopy, organised by Department of Chemistry, VU & CRSI Kharagpur Chapter   | 23.09.2020               |
| Sahin Reja           | Recent Trends in Chemistry-2020, organised by Department of Chemistry, NBU  | 16.10.2020               |
| Sahin Reja           | One Day International Seminar (Virtual Mode) “Frontiers in Chemistry 2020”, organised by Department of Chemistry, NBU                                     | 01.10.2020               |
| P. K. Mudi           | National Seminar on “Frontiers in Chemistry 2020”, organised by Department of Chemistry, NBU  | 05.03.2021               |
| Sailesh Chettri      | Material Chemistry- Today and Tomorrow, organised by Indian Chemical Society, Kolkata and Department of Chemistry, Jadavpur University                    | 28.02.2021 to 01.03.2021 |

#### Publications:

| Name of the Author              | Publication Details                      | Year |
|---------------------------------|--|------|
| <b>Prof. A. Misra</b>           |  |      |
| T. Sutradhar and A. Misra       | <i>J. Phys. Chem. A</i> , 125, 2436–2445 | 2021 |
| S. Sarkar, S. Paul and A. Misra | <i>Chem. Phys. Imp.</i> 1, 10002         | 2020 |

| Name of the Author  | Publication Details   | Year |
|---|---|------|
| T. Sutradhar and A. Misra   | <i>RSC Adv.</i> 10, 40300-40309   | 2020 |
| S. Das, M. Homray and A. Misra  | <i>Chemistry Select</i> , 40, 12586-12589   | 2020 |
| <b>Prof. Pranab Ghosh</b>   |   |      |
| Singha, R., Islam, A. & Ghosh, P.   | One-pot three-component tandem annulation of 4-hydroxycoumarine with aldehyde and aromatic amines using graphene oxide as an efficient catalyst. <i>Sci Rep</i> 11, 19891 (2021)  | 2021 |
| Singha, R., Chettri, S., Brahman, D. Sinha, B., Ghosh, P.                     | Environmentally benign approach towards C–S cross-coupling reaction by organo-copper(II) complex. <i>Mol Divers</i> (2021)  | 2021 |
| G. C. Pariyar and P. Ghosh  | Enzyme-catalyzed synthesis of bioactive heterocycles, <i>Physical Sciences Reviews</i>  | 2021 |
| G. Karmakar, K. Dey, P. Ghosh, B. K. Sharma, S. Z. Erhan                      | A Short Review on Polymeric Biomaterials as Additives for Lubricants, <i>Polymers</i> , 13(8), 1333;  | 2021 |
| B. Mitra and P. Ghosh   | Microwave-assisted C-C and C-Heteroatom Bond Formations in an Aqueous Medium, Vol 8, Issue 2, 2021, 128 – 136.  | 2021 |
| Basak P., Ghosh P.  | Green Organocatalysis. In: Anilkumar G., Saranya S. (eds) <i>Green Organic Reactions. Materials Horizons: From Nature to Nanomaterials</i> . Springer, Singapore  | 2021 |
| B. Mitra, P. Ghosh  | Humic acid: A Biodegradable Organocatalyst for Solvent-free Synthesis of Bis(indolyl)methanes, Bis(pyrazolyl)methanes, <i>Bis-coumarins and Bis-lawsones</i> , Volume 6, Issue 1, 2021, 68-81.  | 2021 |
| B. Saha, B. Mitra, S. Mukherjee, R. Subba, D. Brahmin, B. Sinha and P. Ghosh, | Organo-Cu (II) catalyst: an efficient synthesis of substituted n-heterocycles via double condensation/ tandem oxidationcyclization / elimination-cyclization reactions from easily accessible precursors, <i>rasāyanj. Chem.</i> , Vol. 14, No.3, 2021. | 2021 |
| P. Basak, S. Dey and P. Ghosh   | Convenient one-pot synthesis of 1,2,4-oxadiazoles and 2,4,6-triarylpyridines using graphene oxide (GO) as a metal-free catalyst: importance of dual catalytic activity, <i>RSC Adv.</i> , 2021, <b>11</b> , 32106-32118                                 |      |

| Name of the Author   | Publication Details  | Year |
|--|--|------|
| P. Basak and P. Ghosh,   | Green Organic Transformations: Novelty of Graphene Oxide (GO) and Sulfonated Graphene Oxide (SGO), Volume 8, Issue 1 , 2021, 28 – 45.  | 2021 |
| Mitra B., Pariyar G. C., Ghosh P.  | Environmentally Benign Organic Solvent: A Green Approach. In: Anilkumar G., Saranya S. (eds) Green Organic Reactions. <i>Materials Horizons: From Nature to Nanomaterials</i> . Springer, Singapore.   | 2021 |
| Ghosh P.   | One-pot Three-component Solvent-free Tandem Annulations for Synthesis of Tetrazolo[1,2- <i>a</i> ]pyrimidine and [1,2,4]triazolo[1,5- <i>a</i> ]pyrimidine, K. Dutta, B. Mitra, B. S. Sharma and P. Ghosh, ChemistrySelect, accepted on 15.12.2021       | 2021 |
| <b>Prof. B. Sinha</b>  |  |      |
| B. Saha, B. Mitra, S. Mukherjee, R. Subba, D. Brahmin, B. Sinha and P. Ghosh | Organo-Cu (II) Catalyst: An Efficient Synthesis of Substituted N-Heterocycles via Double Condensation/Tandem Oxidation-Cyclization/ /Elimination-Cyclization Reactions from Easily Accessible Precursors, <i>Rasayan. J. chemistry</i> , 14(4) 2406-2412 | 2020 |
| A. Kamath, D. Brajman, S. Chhetri, B. Sinha                                  | [Diaquo{bis(p-hydroxybenzoato-κ1O )}(1-methylimidazole- κ1N1)}copper(II)]: Synthesis, crystal structure, catalytic activity and DFT study, <i>Journal of Molecular Structure</i> , 1247(5) (2021) 131323   | 2021 |
| B. Sinha, M. Bhattacharya, S. Saha, S. Saha                                  | Spectroscopic Studies and Antimicrobial Evaluation of New Mixed Ligand Mn (II), Ni (II), Cu (II) Complexes Synthesized from an Ionic Liquid-Supported Schiff Base and 1-Methyl Imidazole, <i>Polycyclic Aromatic Compounds</i> , 2021                    | 2021 |
| A. Das, D. K. Mishra, P. Gurung, V. K. Dakua, B. Sinha                       | DNA Binding and DNA Cleavage Activities of Newly Synthesized co(II) and cu(II) Complexes of a β-Cyclodextrin Based Azo-Functionalized Schiff Base. <i>Australian Journal of Chemistry</i> 74(5) (2021) 341-350   | 2021 |

| Name of the Author  | Publication Details  | Year |
|---|--|------|
| A. Chettri, S. Chettri, P. Rai, D. K. Mishra, B. Sinha, D. Brahman                              | Synthesis, characterization and computational study on potential inhibitory action of novel azo imidazole derivatives against COVID-19 main protease (M <sup>Pro</sup> : 6LU7), <i>Journal of Molecular Structure</i> , 1225 (2021) 129230.  | 2021 |
| A. Chettri, S. Chettri, P. Rai, D. Brahman, B. Sinha  | Exploration of Inhibitory Action of Azo imidazole Derivatives against COVID-19 Main Protease (M <sup>Pro</sup> ): A Computational Study, <i>Journal of Molecular Structure</i> , 1224 (2021) 129178.   | 2021 |
| S. Banerjee , P. Kar, I. Sarkar, A. Chhetri, D. K. Mishra, A. Dutta, A. Kumar, B. Sinha, A. Sen | Structural elucidation and chemical characterization of underutilized fruit silverberry ( <i>Elaeagnus pyriformis</i> ) silver nanoparticles playing a dual role as anti-cancer agent by promoting apoptosis and inhibiting ABC transporters, <i>South African Journal of Botany</i> | 2021 |
| P. Kar, D. K. Mishra, A. Roy, A. K. Chakraborty, A. Sen, B. Sinha                               | Elucidation of phytomedicinal efficacies of <i>Clerodendrum inerme</i> (L.) Gaertn. (Wild Jasmine), <i>South African Journal of Botany</i> , 2020  | 2020 |
| R. Singha, D. Brahman, S. Chettri, B. Sinha, P. Ghosh   | Environmentally benign approach towards C–S cross-coupling reaction by organo-copper(II) complex. <i>Molecular Diversity</i>   | 2021 |
| R Singha, D Brahman, B Sinha, P Ghosh   | A greener and sustainable approach towards the synthesis of propargylamine using multicomponent A <sup>3</sup> -coupling reaction. <i>Asian Journal of Green Chemistry</i> 5 (2021) 91-11  | 2021 |
| <b>Prof. B. Biswas</b>  |  |      |
| M Shit, S Maity, S Bera, P K Mudi, B Biswas, T Weyhermueller, P Ghosh                           | Nickel(II) di-aqua complex containing water cluster: Synthesis, X-ray structure and catecholase activity, <i>New Journal of Chemistry</i> , 45 (2020) 2221-2227 (I.F. 3.591)   | 2021 |
| S Roy, P Paul, M Karar, M Joshi, S Paul, A R Choudhury and B Biswas                             | Cascade Detection of Fluoride and Bisulphate Ions by Newly Developed Hydrazine Functionalised Schiff Bases, <i>Journal of Molecular Liquids</i> , 326 (2021) 115293  | 2021 |
| S Mahato, N Meheta, K Muddukrishnaiah, M Joshi, M Shit, A R Choudhury and B Biswas              | Synthesis, Supramolecular Structure, Polyphenol Oxidase Mimics and Bactericidal Activity of a Zinc(II)-Schiff Base Complex, <i>Polyhedron</i> , 194 (2021) 114933  | 2021 |



| Name of the Author   | Publication Details  | Year |
|--|--|------|
| R.K. Mahato, A.K. Mahanty, S Paul, V Gopal, B Perumalsamy, G Balakrishnan, T Ramasamy, D Dharumadurai and B Biswas | Catalytic Oxidative Coupling of o-Phenylenediamine, In-vitro Antibacterial and Antitumor Activities of a Gold(III)-Bipyridine Complex, <i>Journal of Molecular Structure</i> , 1223 (2021) 129264                    | 2021 |
| S Mahato and B Biswas  | A Copper(II)-Schiff base Complex: Synthesis, Structural Characterization and Catalytic Oxidative Coupling of 2-Aminophenol, <i>Journal of Indian Chemical Society</i> , 97 (2020) 849-856                            | 2020 |
| B Chowdhury, S S Pradhan, H S Das, B Biswas  | Visible Light Induced Photocatalytic Dye Degradation by Cobalt Oxide Nanoparticles, <i>Fine Chemical Engineering (FCE)</i> 02 (2020) 113-126   | 2020 |
| S Das, S Diyali, G. Vinothini, B Perumalsamy, G Balakrishnan, T Ramasamy, D Dharumadurai, B Biswas                 | Synthesis, Morphological Analysis, Antibacterial Activity of Iron Oxide Nanoparticles and the Cytotoxic Effect on Lung Cancer Cell line, <i>Heliyon</i> , 06 (2020) e04953   | 2020 |
| Dy Dey, A Al-Hunaiti, G. Vinothini, B Perumalsamy, G Balakrishnan, T Ramasamy, D Dharumadurai and B Biswas         | C-H Functionalization of Alkanes, bactericidal and antiproliferative studies of agold(III)-phenanthroline Complex in, <i>Journal of Molecular Structure</i> , 1222 (2020) 128919                                     | 2020 |
| S Mahato, N Meheta, K. Muddukrishnaiah, M Joshi, P Ghosh, M Shit, A R Choudhury, B Biswas                          | Ligand Directed Synthesis of a Unprecedented Tetragonal bipyramidal Copper(II) Complex and its Catalytic Role in Oxidative Dimerisation of 2-Aminophenol, <i>Applied Organometallic Chemistry</i> , 34 (2020) e5935  | 2020 |
| S Mukherjee, S Roy, S Mukherjee, B Biswas  | Oxidative Dimerisation of 2-Aminophenol by a Copper(II) Complex: Synthesis, Non-covalent interactions and Bio-mimics of Phenoxazinone Synthase Activity, <i>Journal of Molecular Structure</i> , 1217 (2020) 128348. | 2020 |
| C K Pal, S Mahato, M Joshi, S Paul, A R Choudhury, B Biswas  | Transesterification Activity by a Zinc(II)-Schiff Base Complex with Theoretical Interpretation, <i>Inorganica Chimica Acta</i> 506 (2020) 119541   | 2020 |
| M. Karar, P. Paul, B. Biswas, T. Majumdar, A. Mallick,   | Excitation wavelength as logic operator, <i>Journal of Chemical Physics (AIP)</i> , 152 (2020) 075102.   | 2020 |

| Name of the Author  | Publication Details   | Year |
|---|---|------|
| P K Mudi, R K Mahato, M Joshi, S Paul, A R Choudhury, B Biswas  | Synthesis and Structural Characterization of a Linkage Isomer to a Mononuclear Nickel(II) Complex: Experimental & Computational Depiction of Phosphoesterase Efficiency, <i>Journal of Molecular Structure</i> , 1200 (2020) 127083 | 2020 |
| P.K. Mudi, N. Bandopadhyay, M. Joshi, M. Shit, S. Paul, A.R. Choudhury, B. Biswas                           | Schiff Base Triggering Synthesis of Copper(II) Complex and its Catalytic Fate towards Mimics of Phenoxazinone Synthase Activity, <i>Inorganica Chimica Acta</i> , 505 (2020) 119468   | 2020 |
| <b>Dr. Sajal Das</b>  |   |      |
| P. Ghosh, G. Chhetri, S. Das.   | <i>RSC Advances</i> .2021, <b>11</b> , 10258-10263 [IF=3.361]   | 2021 |
| P. Ghosh, B. Ganguly, S. Das  | <i>Org. Biomol. Chem.</i> 2021, <b>19</b> , 2146-2167 [IF=3.876]  | 2021 |
| B. Mondal, P. Ghosh, M. Kundu, T. Das, S. Das   | <i>Org. Biomol. Chem.</i> 2021, <b>19</b> , 1604-1609 [IF=3.876]  | 2021 |
| B. Mondal, P. Ghosh, M. Kundu, S. Das   | <i>Org. Biomol. Chem.</i> 2021, <b>19</b> , 360-364 [IF=3.876]  | 2020 |
| P. Ghosh, B. Ganguly, S. Das  | <i>Org. Biomol. Chem.</i> 2020, <b>18</b> , 4497-4518 [IF=3.876]  | 2020 |
| P. Ghosh, S. Das.   | <i>SynOpen</i> . 2020, 4, 33-37   | 2020 |
| P. Ghosh, S. Das,   | <i>Synth. Commun.</i> 2020, 50, 2266-2312 [IF=1.796]  | 2020 |
| <b>Dr. Md. Firoj Hossain</b>  |   |      |
| R N Yadav, S Chandra, A Paniagua, Md. F Hossain and B K Banik   | <i>Aust. J. Chem.</i> ( <a href="https://doi.org/10.1071/CH19670">https://doi.org/10.1071/CH19670</a> )   | 2020 |
| Md. F Hossain, A Lemmerer and C B. de Koning  | <i>Arkivoc</i> ( <a href="https://doi.org/10.24820/ark.5550190.p011.313">https://doi.org/10.24820/ark.5550190.p011.313</a> )  | 2020 |
| Md. Firoj Hossain, Arindam Das, Sovan Dey, Sumit Chakraborty, Anup Barman, Ashim Sen, and Rinku Chakrabarty | <i>J. Indian Chem. Soc.</i> 97  | 2020 |
| Sovan Dey, Arindam Das and Md. Firoj Hossain  | <i>ChemistrySelect</i>  | 2020 |
| Sangharaj Diyali, Ayon Kanti Mohanty, Subhajit Sarkar, Md. Firoj Hossain, Biplab Bhowmik and Bhaskar Biswas | <i>Advanced Chemicobiology Research</i> ( <a href="http://ojs.wiserpub.com/index.php/ACBR/">http://ojs.wiserpub.com/index.php/ACBR/</a> )   | 2021 |

| Name of the Author  | Publication Details  | Year |
|---|--|------|
| <b>Dr. Sujoy Rana</b>   |  |      |
| S Rana, J P Biswas, S Paul, A Paika and D Maiti   | <i>Chemical Society Reviews</i> , Volume-50, Page-243-472, Impact Factor: 54.564   | 2021 |
| G. Coin, R. Patra, Sujoy Rana; J. P. Biswas, P. Dubourdeaux, M. Clémancey, S. P. de Visser, D. Maiti, P. Maldivi, and J-Marc Latour | <i>ACS Catalysis</i> , Volume-10(17), Page-10010-10020   | 2020 |
| <b>Dr. Hari Sankar Das</b>  |  |      |
| B Chowdhury, S S Pradhan, H S Das, B Biswas   | <i>Fine Chemical Engineering</i> , 2020, 1, 104-117<br>Impact factor:NA  | 2020 |
| P K Mudi, R K Mahato, M Joshi, M Shit, A R Choudhury, H S Das, B Biswas   | <i>Applied Organometallic Chemistry</i> , 2021, 35, e6211, Impact factor: 4.105  | 2021 |
| <b>Dr. Sudhir Kr. Das</b>   |  |      |
| P. Pramanik, S. K. Das, M. Halder   | J. Phys. Chem. C 2020, 124, 4791-4801<br>Impact factor: 4.2  | 2020 |
| Q. Pramanik, R. K. Sahu, S. K. Das, M. Halder   | Phys. Chem. Chem. Phys. 22 (48), 28045-28054<br>Impact factor: 3.7   | 2020 |
| <b>Dr. Satyapriya Bhandari</b>  |  |      |
| Pramanik, S.; Manna, M.; Hudait, B.; Roy, S.; Bhandari, S.  | Physical Insights into Facilitation of an Unprecedented Complexation Reaction on the Surface of a Doped Quantum Dot Leading to White Light Generation/ <i>Phys. Chem. Chem. Phys.</i> /23, 9860-9866. (Impact Factor –3.676) | 2021 |

#### Research Projects Details:

| Title of the Project   | Name of the PI      | Project Duration | Sponsored by | Year of Sanction | Project Budget (Rs.) |
|--|---------------------|------------------|--------------|------------------|----------------------|
| Designing of Smart Molecules and Materials by Correlating Optical, Magnetic and Transport Properties through Electronic Structure Analysis | Prof. Anirban Misra | 3 years          | SERB-DST     | 2020             | 36,25,670            |

| <b>Title of the Project</b>   | <b>Name of the PI</b>   | <b>Project Duration</b> | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Project Budget (Rs.)</b> |
|---|-------------------------|-------------------------|---------------------|-------------------------|-----------------------------|
| Design and synthesis of coordination driven smart functional molecules and their bio-mimetic and electrocatalytic aspect in hydrogen evolution reaction (HER)               | Prof. Bhaskar Biswas    | 3 years                 | SERB-DST            | 2021                    | 47,04,000                   |
| Design, synthesis, biological activity and sensing performance of coumarin/quinoline based electron donor-accepter systems  | Dr. Md. Firoj Hossain   | 2 years                 | UGC, New Delhi      | 2019                    | 10,00,000                   |
| Synthesis of transition metal complexes and it's biological activity  | Dr. Rajesh Kr. Das      | 3 years                 | UGC                 | 2020                    | 10,00,000                   |
| Structure-Properties Relationships of Sodium Ion Electrolytes Based on Hydrophobic Ionic Liquids and Deep Eutectic Solvents   | Dr. Sudhir Kr. Das      | 2 years                 | SERB                | 2019                    | 28,10,000                   |
| Nano Groups of Uniform Materials Based on Organic Salts (Nano-GUMBOS) and Their Nanocomposites with Inorganic Materials: Design, Synthesis and Photophysics                 | Dr. Sudhir Kr. Das      | 3 years                 | SERB                | 2019                    | 48,30,120                   |
| Schiff base triggered aggregation induced enhance emission and white light generation through Foster resonance energy transfer in between organic and inorganic nanohybrids | Dr. Sudhir Kr. Das      | 3 years                 | UGC                 | 2019                    | 10,00,000                   |
| Complexation on the Surface of Metal Halide Perovskite  | Dr. Satyapriya Bhandari | 5 years                 | DST                 | 2018                    | 35,00,000                   |

| <b>Title of the Project</b>  | <b>Name of the PI</b> | <b>Project Duration</b> | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Project Budget (Rs.)</b> |
|--|-----------------------|-------------------------|---------------------|-------------------------|-----------------------------|
| Nanocrystals for Application as Energy Materials   |                       |                         |                     |                         |                             |
| Synthesis of Pd-NHC Complexes and Their Applications in Organic Transformations  | Dr. Sajal Das         | 1 year                  | NBU                 | 2020                    | 1,50,000                    |
| Structure-Property-Relationship of Functional Materials, Energy Conversion, and Catalytic Activity Tracking  | Dr. Nitish Roy        | 1 year                  | NBU                 | 2020                    | 1,50,000                    |
| Studies of the adsorption dynamics of CO <sub>2</sub> on photocatalyst surfaces and subsequent conversion into value added chemicals under light irradiation | Dr. Nitish Roy        | 3 years                 | SERB                | 2019                    | 3629000                     |
| Design of Photocatalysts/Photoelectrodes for Z-scheme Based Complete Water Splitting Using Solar Light,  | Dr. Nitish Roy        | 2 years                 | UGC start-up grant  | 2020                    | 1000000                     |
| Merging of Visible Light Photo redox and Bio-inspired Catalysis for C-H Functionalization  | Dr. Sujoy Rana        | 2 years                 | SERB                | 2019                    | 2708499                     |
| Merging of Photo catalysis with Bio-inspired and Organometallic Catalysis for Synthetic Transformation   | Dr. Sujoy Rana        | 2 years                 | UGC                 | 2020                    | 10,00000                    |
| Phenalenyl and quinonoid radical mediated electrocatalytic reduction of carbon dioxide into valuable organic molecules                                       | Dr. Hari Sankar Das   | 3 years                 | SERB                | 2019                    | 40,34,000                   |
| Phenalenyl and quinonoid radical mediated catalytic  | Dr. Hari Sankar Das   | 3 years                 | UGC                 | 2020                    | 10,00,000                   |

| <b>Title of the Project</b>  | <b>Name of the PI</b> | <b>Project Duration</b> | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Project Budget (Rs.)</b> |
|--|-----------------------|-------------------------|---------------------|-------------------------|-----------------------------|
| transformation of challenging organic functional groups using hydrosilanes |                       |                         |                     |                         |                             |

**Award Received by Faculties:**

1. Prof. Anirban Misra received Membership of the National Academy of Sciences, India (NASI) in July 14, 2020
2. Dr. Satyapriya Bhandari received Outstanding Reviewer Award (2020) by Royal Society of Chemistry

**Placement Details:**

| <b>Sl. No.</b> | <b>Name of the student</b> | <b>Email of the Student</b> | <b>Name of the employer</b>         |
|----------------|----------------------------|-----------------------------|-------------------------------------|
| 1              | Meherul Hoque              | 8972540978                  | TCGLS, Kolkata                      |
| 2              | Md Sabir                   | 7001239392                  | PNB Bank, Malda                     |
| 3              | Raktima Saha               | 9434317965                  | Bangiya Gramin Bikash Bank          |
| 4              | Ranjit Singh               | 9563123147                  | St. Alphonsus H.S. School, Kurseong |
| 5              | Jintu Mani Kalita          | 7636830771                  | Ajagar valley Academy, Assam        |

## DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION

### About the Department:

The Department of Computer Science and Application, NBU started imparting instructions with the most modern curricula and syllabus to the students of Post Graduate Diploma in Computer Application Course in the year 1983 initially. In 1998, the Department started MCA Course in the year 1998. The Department is the oldest Department among all other Universities, which started imparting MCA Course in West Bengal. Presently the Department is successfully running MCA & M.Sc. Computer Science Courses.

The Department of Computer Science & Application has been one of the pioneering academic institutions for higher education, research, and innovation in key areas of computer science and application. The mission and vision of the Department is to enable excellences in the world of computer science and application through imparting higher education and research. Students of this Department showed their potentiality in their respective services and placed in various reputed industries.

The Department maintains an excellent teaching/learning and research environment with dedicated, qualified and dynamic faculties and well equipped laboratories. Apart from the teaching, faculties are very much active developing, guiding and conducting research oriented projects, articles related to Computer Science & Information Technology, books. The faculties also participate in various International and national Seminars, workshops, Symposiums and conferences of repute. Presently the Department is having Three Professors, five Asst. Professors and Seven Non-Teaching staffs constitute the faculty and non-teaching strength of the department.

### Courses Offered:

- M. Sc. in Computer Science
- M. Phil
- MCA
- Ph. D.

### Research Focus:

- Artificial Intelligence
- Image Processing
- Artificial Neural Network
- Soft Computing
- Data Mining
- GIS
- Character Recognition
- Expert Decision Support System
- Cryptography & Steganography
- High Performance Computing

### Student Strength:

| Course | Semester        | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|-----------------|------|--------|-------|----|----|-------|-------|-----|
| M.Sc.  | 1 <sup>st</sup> | 9    | 6      | 15    | 4  | 1  | 1     | 2     | 7   |
|        | 3 <sup>rd</sup> | 10   | 4      | 14    | 3  | 1  | -     | 4     | 6   |
| MCA    | 1 <sup>st</sup> | 17   | 7      | 24    | 4  | 1  | 1     | 4     | 14  |

| Course | Semester        | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|-----------------|------|--------|-------|----|----|-------|-------|-----|
|        | 3 <sup>rd</sup> | 17   | 7      | 24    | 6  | -  | 2     | 7     | 9   |
|        | 5 <sup>th</sup> | 18   | 7      | 25    | 6  | -  | 2     | 7     | 10  |

#### No. of Students Completed Degree:

| Course | Year    | Male | Female | Total |
|--------|---------|------|--------|-------|
| M.Sc.  | 2020-21 | 9    | 3      | 12    |
| MCA    | 2020-21 | 18   | 8      | 26    |

#### Faculty Details:

| Name                     | Qualification | Designation      | Email                       |
|--------------------------|---------------|------------------|-----------------------------|
| Dr. Sharad Sinha         | Ph.D.         | Asst. Professor  | ssinha@nbu.ac.in            |
| Dr. Swarup Das           | Ph.D.         | Asst. Professor  | nbuswarup@gmail.com         |
| Dr. Ardhendu Mandal      | Ph.D.         | Assoc. Professor | am.csa.nbu@nbu.ac.in        |
| Dr. Rakesh Kumar Mandal  | Ph.D.         | Assoc. Professor | rakesh_it2002@yahoo.com     |
| Dr. Mukta Majumder       | Ph.D.         | Asst. Professor  | mukta_jgec_it_4@yahoo.co.in |
| Mr. JKM Sadique Uz Zaman | M.Tech.       | Asst. Professor  | jkmsadique@gmail.com        |
| Mr. Md. Ajij             | M.Tech.       | Asst. Professor  | mdajij@nbu.ac.in            |
| Mr. Anil Tudu            | M.E.          | Asst. Professor  | anil.cst@gmail.com          |
| Dr. Mili Ghosh           | Ph.D          | Asst. Professor  | mili.ghosh@nbu.ac.in        |

#### Details of Non-Teaching Staff:

| Name                   | Qualification | Designation                     |
|------------------------|---------------|---------------------------------|
| Dr. Arghya Das         | MCA, Ph.D.    | Program Assistant               |
| Mr. Tapan Chakraborty  | M.P           | Record Supplier                 |
| Mr. Manabendra Sarkar  | H.S.          | Office Assistant (Offc. Asst-C) |
| Mr. Chanchal Kumar Jha | H.S.          | Lab Attendant (Lab. Attdt-C)    |

#### Details of Research Scholars:

| Name          | Fellowship Status | Supervisor's Name   | Gender | Date of Joining |
|---------------|-------------------|---------------------|--------|-----------------|
| Subhro Sarkar | Univ. Fellowship  | Dr. Ardhendu Mandal | M      | 05-05-2017      |
| Shankar Roy   | JRF               | Dr. Ardhendu Mandal | M      | 02-01-2019      |



**Details of PhD Students (Without Fellowship):**

| Name                  | Name of the Supervisor  | Gender |
|-----------------------|-------------------------|--------|
| Debangshu Chakraborty | Dr. I. Ghosh            | Male   |
| Arpita Das            | Dr. I. Ghosh            | Female |
| Arnob Sur             | Dr. S. Das              | Male   |
| Dipanjana Moitra      | Dr. Rakesh Kumar Mandal | Male   |
| Pooja Yadav           | Dr. Rakesh Kumar Mandal | Female |
| Manas Sarkar          | Dr. Ardhendu Mandal     | Male   |
| Susreeta Sur          | Dr. Rakesh Kumar Mandal | Female |
| Debanil Chanda        | Dr. Rakesh Kumar Mandal | Male   |
| Payel Saha            | Dr. Rakesh Kumar Mandal | Female |
| Dechen Doma Bhutia    | Dr. S. Das              | Female |
| Rakesh Dutta          | Dr. M. Majumder         | Male   |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name of the Teacher | Name of the Seminars  | Date       | Title of the Paper Presented                      |
|---------------------|---|------------|---|
| Dr. S. Sinha        | Webinar on Bachelor of Computer Application, organized by Centre for Innovative Studies, NBU        | 08.08.2020 | Prospects of Natural Language Processing In India |
| Dr. Ardhendu Mandal | Foundation of Machine Learning for Data Science & Image Processing, organized by Gour Mahavidyalaya | 17.08.2020 | Fundamentals of Medical Image Processing          |

**Publications:**

| Name of the Authors                  | Details of Book/Journal/Volume  | Year |
|--------------------------------------|---|------|
| <b>Dr. Ardhendu Mandal</b>           |   |      |
| Sarkar, K., Halder, T.K. & Mandal, A | Adaptive power-law and cdf based geometric transformation for low contrast image enhancement. <i>Multimed Tools Appl</i> 80, 6329–6353.                                     | 2020 |
| Mandal A., Saha D., Sarkar M.        | COMSYS Follicle Segmentation Using K-Means Clustering from Ultrasound Image of Ovary. <i>Advances in Intelligent Systems and Computing</i> , vol 1255. Springer, Singapore. | 2020 |

| <b>Name of the Authors</b>                            | <b>Details of Book/Journal/Volume</b>  | <b>Year</b> |
|---|--|-------------|
| A. K. Das, S. K. Biswas, A. Mandal and M. Chakraborty | A Neural Expert System to Identify Major Risk Factors of Breast Cancer   | 2020        |
| Akhil Kumar Das, Saroj Kr. Biswas and Ardhendu Mandal | Transparent Decision Support System for Breast Cancer (TDSSBC) to Determine the Risk Factor.”, 2020 IEEE International Conference for Innovation in Technology (INOCON), Machine Vision and Augmented Intelligence—Theory and Applications | 2020        |
| <b>Dr. Rakesh Kumar Mandal</b>                        |  |             |
| Rakesh Kumar Mandal                                   | “A Prototype Model to Detect Elephants near the Railway Tracks”, <i>Advances in Modelling and Analysis B</i> Vol. 63, No. 1-4, pp. 7-9   | 2020        |
| <b>Dr. Mukta Majumder</b>                             |  |             |
| Saha, B., & Majumder, M                               | “An optimized knight traversal technique to detect multiple faults and Module Sequence Graph based reconfiguration of microfluidic biochip”, <i>IET Computers &amp; Digital Techniques</i> , 15(1), 1-11, Wiley.                           | 2020        |
| <b>Anil Tudu</b>                                      |  |             |
| Anil Tudu   | "Personalized query recommendation system: A genetic algorithm approach." <i>Journal of Interdisciplinary Mathematics</i> 23, no. 2 (2020): 523-535.   | 2020        |

## DEPARTMENT OF FOOD TECHNOLOGY

### About the Department:

To meet the vision of generating trained human resources and skilled intellectuals in various aspects of food technology to meet the needs of food industry sector, economic growth and to provide health and safety that would support the prosperity and wellness of people, the Department of Food Technology, NBU started its journey in 2<sup>nd</sup> August, 2019.

Food Technology is one of the major streams in the branch of science that deals with the novel techniques involved in producing, bioprocessing, preservation, fermentation, packaging, labelling, quality management, safety assessment, marketing and entrepreneurship of food products. It involves an amalgamation of physical, chemical or microbiological processes and the techniques of transforming raw ingredients into food and also other forms in the food processing industry.

Apart from the scheduled academic activities, the Department also organizes seminar, symposium, conferences and training programs for students and research scholars in near future to disseminate and gain knowledge.

### Courses Offered:

- M. Sc.
- Ph. D.

### Research Focus:

- Probiotics
- Value addition of food
- Health benefits of fermented foods
- Organic methodology
- Synthesis of Bioactive heteromolecules
- Phytochemistry of medicinal plant

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| M. Sc. | 2020 | 11   | 06     | 17    | 04 | 01 | -     | -     | 12  |

### Faculty Details:

| Name                     | Qualification          | Designation     | Email              |
|--------------------------|------------------------|-----------------|--------------------|
| Dr. Kriti Ghatani        | M.Sc., M.Phil., Ph. D. | Asst. Professor | ghatanik@nbu.ac.in |
| Dr. Gyan Chandra Pariyar | M.Sc, CSIR-JRF, Ph.D   | Asst. Professor | pariyarg@nbu.ac.in |

**Details of Non-Teaching Staff:**

| Name                | Qualification | Designation               |
|---------------------|---------------|---------------------------|
| Mr. Biswarup Singha | H.S.          | Office Assistant (Casual) |
| Mr. Soumen Das      | Madhyamik     | Peon (Mandays)            |

**Details of Research Scholars:**

| Name              | Fellowship Status | Supervisor's Name | Gender | Date of Joining |
|-------------------|-------------------|-------------------|--------|-----------------|
| Arpan Rai         | SVMCM             | Dr. G C Pariyar   | Male   | 29.01.2020      |
| Priya Chakraborty | SVMCM             | Dr. Kriti Ghatani | Female | 29.01.2020      |
| Subarna Thapa     | DST-SERB Project  | Dr. Kriti Ghatani | Female | 29.01.2020      |

**Details of Project Scholar**

| Name          | Projects         | Supervisor's Name | Gender | Date of Joining |
|---------------|------------------|-------------------|--------|-----------------|
| Subarna Thapa | DST-SERB Project | Dr. Kriti Ghatani | Female | 19.03.2020      |

**Details of Webinar Organised:**

| Name of Webinar   | Date                                  | Number of participants |
|---|---------------------------------------|------------------------|
| Recent Trends in Research on Food, Nutrition and Health | 19 <sup>th</sup> March, 2021 (online) | 55                     |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name              | Name of the Seminars  | Date          | Title of the paper presented   |
|-------------------|---|---------------|--|
| Dr. Kriti Ghatani | International conference on Environment and Society, organized by ABRF and GESA | 26-28.12.2020 | Delivered lecture on Livelihood management and sustainable development of ethnic communities of Sikkim Himalayas with reference to traditional foods |

**Publications:**

| Name of the Author       | Details of Book/Journal/Volume | Year |
|--------------------------|--------------------------------|------|
| Dr. Gyan Chandra Pariyar | <i>RSC Advances</i> Vol 11     | 2021 |

| Name of the Author       | Details of Book/Journal/Volume                                     | Year |
|--------------------------|--|------|
| Dr. Gyan Chandra Pariyar | <i>Green Organic Reactions</i> , Springer, ISBN: 978-981-336-896-5 | 2021 |

#### Research Projects Details:

| Title of the Project  | PI                | Project Duration | Sponsored by | Year of Sanction | Budget (Rs.) |
|---|-------------------|------------------|--------------|------------------|--------------|
| Production of functional pickle by probiotic strain isolated from plant based fermented foods                                       | Dr. Kriti Ghatani | 3 years          | DST-SERB     | 2020             | 45,99,144    |
| Evaluation of efficacy and safety of indigenous probiotic strains having hypocholesterolaemic property                              | Dr. Kriti Ghatani | 1 year           | NBU          | 2019             | 1,50,000     |
| Selection of Bacterial enzyme for industrial application from Doi, an ethnic Fermented Milk product of North Bengal.                | Dr. Kriti Ghatani | 1 year           | NBU          | 2020             | 1,50,000     |
| Studies on environmentally benign synthesis of biologically active heterocyclic compounds and exploring their biological activities | Dr. G C Pariyar   | 1 year           | NBU          | 2019             | 1,50,000     |
| Development of protocol for construction of bioactive heterocyclic moiety   | Dr. G C Pariyar   | 1 year           | NBU          | 2020             | 1,50,000     |

#### Details of Visiting Fellow:

| Sl. No | Name of the Visiting Fellow    | Duration   | Name of the University/Institute                             |
|--------|--------------------------------|------------|--|
| 1      | Dr. Jarita Mallik              | 1 semester | Anand Agriculture University                                 |
| 2      | Dr. Prashant Pandharinath Said | 1 semester | College of Agriculture Engineering and Post-Harvest Technogy |

## **DEPARTMENT OF GEOGRAPHY AND APPLIED GEOGRAPHY**

### **About the Department:**

The Department of Geography and Applied Geography, North Bengal University was established in the year 1962 along with the establishment of the University. The Department offers teaching in the post graduate level and also offers M.Phil. and Ph. D programme.

The Department caters to a huge peripheral hinterland from where large number of students and research scholars come to gain knowledge and research experience from the expertise of esteemed faculty members. The students from varied geographical regions comprising of the foothill as well as hilly terrain of Darjeeling-Sikkim Himalaya in the north, alluvium hill shade of Brahmaputra valley of Assam in the east, undulating topographic variation formed by Gangetic depositional alluvium of Bihar and Jharkhand tract in the west and flat type topographical situation ranging from Gangetic delta to Jangalmahal of southern part of West Bengal come to this Department.

The new syllabus under CBCS System has been introduced since the 2018-19 and special attention has been given to the different emerging and application oriented aspects in the new syllabus under the semester system including Geographical Information System, Remote Sensing and Disaster Management. The Department at present offers Post Graduate students' special courses in Applied Pedology, Cartography, Fluvial Geomorphology, Population Geography, and Urban Geography. The Department of Geography and Applied Geography at Jalpaiguri Campus of North Bengal University was started from 2013-14 session. Teachers from the main camups extends teaching to the students of the Department at Jalpaiguri Campus.

### **Courses Offered:**

- M.A. / M. Sc.
- M. Phil.
- Ph. D.

### **Research Focus:**

- Fluvial Geomorphology
- Environmental Issues
- Pedology
- Fluvial Geomorphology
- Agricultural Geography
- Hydrology
- Population Studies
- Remote Sensing & GIS

### **Student Strength:**

| Course             | Year      | Male | Female | Total | SC | ST | OBC-A | OBC-B | PH | Gen |
|--------------------|-----------|------|--------|-------|----|----|-------|-------|----|-----|
| <b>Main Campus</b> |           |      |        |       |    |    |       |       |    |     |
| M.A./M.            | Sem – I   | 20   | 41     | 61    | 25 | 5  | 6     | 6     | 1  | 18  |
| Sc.                | Sem - III | 34   | 25     | 59    | 23 | 4  | 7     | 9     | 1  | 15  |

| Course                   | Year      | Male | Female | Total | SC | ST | OBC-A | OBC-B | PH | Gen |
|--------------------------|-----------|------|--------|-------|----|----|-------|-------|----|-----|
| <b>Jalpaiguri Campus</b> |           |      |        |       |    |    |       |       |    |     |
| M.A./M.                  | Sem – I   | 14   | 13     | 27    | 10 | 2  | 3     | 6     | 0  | 6   |
| Sc.                      | Sem - III | 12   | 8      | 20    | 6  | 2  | 4     | 3     | 0  | 5   |

**Details of Course Completed by Students in 2020 - 21:**

| Course                   | Male | Female | Total | SC | ST | OBC-A | OBC-B | PH | Gen |
|--------------------------|------|--------|-------|----|----|-------|-------|----|-----|
| <b>Main Campus</b>       |      |        |       |    |    |       |       |    |     |
| M. A. / M. Sc.           | 34   | 25     | 59    | 23 | 4  | 7     | 9     | 1  | 15  |
| <b>Jalpaiguri Campus</b> |      |        |       |    |    |       |       |    |     |
| M. A. / M. Sc.           | 12   | 8      | 20    | 6  | 2  | 4     | 3     | 0  | 5   |

**Faculty Details:**

| Name                    | Qualification | Designation      | Email                     |
|-------------------------|---------------|------------------|---------------------------|
| Dr. Subir Sarkar        | Ph. D         | Professor        | subirsnbu@yahoo.co.in     |
| Dr. Sushma Rohatgi      | Ph. D         | Professor        | rohatgisushma@gmail.com   |
| Dr. Deepak Kumar Mandal | Ph. D         | Professor        | deepakkrmandal@nbu.ac.in  |
| Dr. Ranjan Roy          | Ph. D         | Professor        | ranjanroygeog@nbu.ac.in   |
| Dr. Indira Lepcha       | Ph. D         | Assoc. Professor | indiralepchanbu@nbu.ac.in |
| Dr. S K Bhattacharya    | Ph. D         | Asst. Professor  | skbhatt2002@yahoo.co.in   |
| Dr. Snehasish Saha      | Ph. D         | Asst. Professor  | snehonbugeo09@nbu.ac.in   |
| Dr. Arindam Basak       | Ph. D         | Asst. Professor  | aribasak@nbu.ac.in        |
| Dr. I Roy Chowdhury     | Ph. D         | Asst. Professor  | irchowdhury_geo@nbu.ac.in |
| Dr. Rupak Kumar Paul    | Ph. D         | Asst. Professor  | rupak@nbu.ac.in           |
| Dr. Riti Moktan         | Ph. D         | Asst. Professor  | dririmoktan@gmail.com     |
| Dr. Surjapada Paul      | Ph. D         | Asst. Professor  | surjapada@gmail.com       |

**Details of Non-Teaching Staff:**

| Name              | Qualification | Designation              |
|-------------------|---------------|--------------------------|
| Mr. Bhanu Basak   | B.Com         | Junior Superintendent    |
| Mr. Kalyan Roy    | B. Sc.        | Tech. (Superintendent)   |
| Mr. Pawan Kamtpi  | VIII          | Record Supplier          |
| Mr. Surja Das     | VIII          | Lab. Attendant; Grade II |
| Mr. Biman Bagchi  | VIII          | Lab. Attendant, Grade II |
| Mr. Sumit Bhowmik | VIII          | Junior Peon              |

**Details of Research Scholars:**

| <b>Name</b>          | <b>Fellowship Status</b> | <b>Supervisor Name</b> | <b>Gender</b>    | <b>Date of Joining</b> |
|----------------------|--------------------------|------------------------|------------------|------------------------|
| Biswajit Paul        | UGC JRF                  | Prof. Subir Sarkar     | Male             | 17.09.2017             |
| Abhisek Sarkar       | UGC-SRF                  | Prof. D. K. Mandal     | Male             | 18.09.2017             |
| Golap Hossain        | UGC-JRF                  |                        | Male             | 03.01.2019             |
| Amit Sarkar          | UGC-NFSC                 |                        | Male             | 12.03.2021             |
| Goutam Mandal        | UGC-JRF                  |                        | Male             | 11.03.2021             |
| Dipesh Roy           | UGC-JRF                  |                        | Male             | 11.03.2021             |
| Roshmi Bhattacharjee | SVMCMS                   |                        | Female           | 02.01.2020             |
| Pampi Ghosh          | SVMCMS                   |                        | Female           | 12/03/2021             |
| Bandana Sarkar       | SVMCMS                   |                        | Female           | 11/03/2021             |
| Punama Sen           | UGC-JRF                  |                        | Prof. Ranjan Roy | Female                 |
| Arjun Saha           | UGC-JRF                  | Male                   |                  | 02.01.2019             |
| Sangita Karmakar     | UGC-JRF                  | Female                 |                  | 02.01.2019             |
| Tapan Debnath        | UGC-JRF                  | Male                   |                  | 02.01.2020             |
| Krishna Barman       | UGC NFSC                 | Male                   |                  | 12.03.2021             |
| Maitreyee Roy        | UGC NFSC                 | Female                 |                  | 11.03.2021             |
| Abdul Halim Miah     | UGC NFOBC-NFPWD          | Male                   |                  | 30.11.2020             |
| Tannistha Saha       | UGC-JRF                  | Dr. Indira Lepcha      |                  | Female                 |
| Dipankar Chakraborty | UGC JRF                  |                        | Female           | 11.03.2021             |
| Harikala Chettri     | SVMCM                    |                        | Female           | 01.01.2020             |
| Piu Saha             | SVMCM                    | Dr. S K Bhattacharya   | Female           | 11.03.2021             |
| Purbasha Paul        | UGC –JRF                 | Dr. Arindam Basak      | Female           | 03.01.2019             |
| Sushmita Singh       | UGC –JRF                 |                        | Female           | 03.01.2019             |
| ArkadipBhowmik       | SVMCM                    |                        | Male             | 01.01.2020             |
| Subham Dey Sarkar    | SVMCM                    |                        | Male             | 01.01.2020             |
| AnusuaPoddar         | SVMCM                    |                        | Female           | 12.03.21               |
| Parangama Chowdhury  | SVMCM                    |                        | Female           | 11.03.21               |
| Arghadeep Bose       | UGC JRF                  |                        | Male             | 02/01/2020             |



| Name               | Fellowship Status | Supervisor Name            | Gender | Date of Joining |
|--------------------|-------------------|----------------------------|--------|-----------------|
| Subham Roy         | UGC JRF           | Dr. Indrajit Roy Chowdhury | Male   | 11/03/2021      |
| Guneswar Barman    | UGC JRF           |                            | Male   | 11/03/2021      |
| SuranjanMajumder   | UGC JRF           |                            | Male   | 02/01/2020      |
| ProsenjitKayal     | UGC JRF           |                            | Male   | 30/11/2020      |
| SubhamMustafi      | UGC JRF           |                            | Male   | 02/01/2020      |
| Raj Kumar Roy      | UGC JRF           | Dr. Rupak Kumar Paul       | Male   | 11.03.2021      |
| Shuva Das          | UGC JRF           |                            | Male   | 11.03.2021      |
| Mousumi Pal        | UGC-JRF           | Dr. Riti Moktan            | Female | 3/01/2019       |
| Amar Nath          | UGC-JRF           |                            | Female | 12/03/2021      |
| Angana Roy         | SVMCM             |                            | Female | 01/01/2020      |
| Peyong Lama        | SVMCM             |                            | Female | 12/03/2021      |
| Satyajit Das       | UGC-JRF           | Dr. Surjapada Paul         | Male   | 09.04.2019      |
| Deep Ghosh         | UGC-NFOBC         |                            | Male   | 01.12.2020      |
| NishikantaMajumdar | UGC-NFSC          |                            | Male   | 01.12.2020      |
| Debasish Roy       | UGC-NFSC          |                            | Male   | 11.03.2021      |

#### Details of Project Scholar

| Name              | Project            | Supervisor's Name  | Gender | Date of Joining |
|-------------------|--------------------|--------------------|--------|-----------------|
| Kunal Chakraborty | DSTBT, West Bengal | Dr. Snehasish Saha | Male   | 05.09.2019      |

#### Details of PhD Students (Without Fellowship):

| Name              | Supervisor's Name  | Gender | Date of admission in PhD Course Work |
|-------------------|--------------------|--------|--------------------------------------|
| Amit Kumar Jana   | Prof. Subir Sarkar | Male   | -                                    |
| Sreeparna Sarkar  |                    | Female | -                                    |
| Manas Paul        |                    | Male   | 10.12.2012                           |
| Kaustabi Maitra   |                    | Female | 07.05.2015                           |
| Partha Pratim Roy | Prof. D. K. Mandal | Male   | 17.12.2013                           |
| Sanjay Biswas     |                    | Male   | 23.09.2011                           |
| Rajib Mitra       |                    | Male   | 18.09.2017                           |
| Sunanda Das       |                    | Male   | 02.01.2020                           |

| Name                  | Supervisor's Name    | Gender            | Date of admission in PhD Course Work |
|-----------------------|----------------------|-------------------|--------------------------------------|
| Prasayna Sarkar       |                      | Male              | 03.01.2019                           |
| Dablu Barman          |                      | Male              | 11.03.2021                           |
| Suchitra Roy          | Prof. Ranjan Roy     | Female            | 18.09.2017                           |
| Anandananda Bera      |                      | Male              | 01.01.2020                           |
| Sampa Saha            |                      | Female            | 04.01.2019                           |
| Anindita Barman       |                      | Female            | 03.01.2019                           |
| Dipankar Das          |                      | Male              | 02.01.2019                           |
| Anwasha Saha          |                      | Dr. Indira Lepcha | Female                               |
| Nisha Tamang          | Female               |                   | 26.09.2011                           |
| Bijata Chettri        | Female               |                   | -                                    |
| Dewki Limbu           | Female               |                   | 17.09.2017                           |
| Sinor Lama            | Male                 |                   | 03.01.2019                           |
| Sreyashi Ganguli      | Dr. S K Bhattacharya | Female            | 26.09.2011                           |
| Tuhin Dey Roy         | Dr. Arindam Basak    | Male              | 02.01.2019                           |
| Jennifer Lama         |                      | Female            | 01.01.2020                           |
| TanmayThokdar         | Dr. Snehasish Saha   | Male              | 07.12.2012                           |
| Subrata Ghosh         |                      | Male              | 16.12.2013                           |
| Tapash Mandal         |                      | Male              | 16.12.2013                           |
| Debanjan Basak        | Dr. I Roy Chowdhury  | Male              | 02.01.2019                           |
| Debarati Chowdhury    |                      | Female            | 01.01.2020                           |
| Goutam Das            | Dr. R K Paul         | Male              | 03.01.2019                           |
| Subrata Mandal        |                      | Male              | 03.01.2019                           |
| Pintu Biswas          |                      | Male              | 04.01.2019                           |
| Swarna Kamal Kamrakar |                      | Male              | 02.01.2020                           |
| Parvati Rai           | Dr. Riti Moktan      | Female            | 03.01.2019                           |
| Prahlad Paul          | Dr. Surjapada Paul   | Male              | 02.01.2020                           |
| Surajit Paul          |                      | Male              | 23.10.2021                           |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name             | Name of the Seminars/ Conferences   | Date       | Title of the paper presented   |
|------------------|---|------------|--|
| Prof. Ranjan Roy | Environment, Population and Development: Challenges & Opportunities, organised by Malda Women's College | 18.10.2020 | Population Growth and Environmental Sustainability in West Bengal with Special Reference to 2011 Census: Some Basic Issues |

| Name                       | Name of the Seminars/<br>Conferences  | Date          | Title of the paper<br>presented   |
|----------------------------|---|---------------|---|
|                            | Women, Environment and Sustainable Development, organised by Cluny Women's College  | 17.10.2020    | Understanding the Linkages between Women, Environment and Sustainable Development Through Women Empowerment |
|                            | Geography in the Contemporary World, organised by The Geographical Society of Sundarbans  | 29.09.2020    | Water Crisis and its Management in Darjiling Himalaya with Special Reference to Kalimpong Town              |
|                            | Faculty Induction Programme, organised by UGC-HRD-NBU   | 21.12.2020    | Sustainable Development   |
| Dr. Indira Lepcha Nee Lama | One Week Online Faculty Development Programme on Open Source GIS software QGIS, organised by Bansur PG College, Rajasthan, K G Reddy College of Engineering & Technology, Hyderabad & IASE, Rajasthan | 06-12.08.2020 | North Bengal Covid 17 Case Health Bulletin  |
|                            | Agriculture, Society & Sustainability, organised by Shyampur Siddheswari Mahavidyalaya  | 16.08.2020    | Attended  |
|                            | Impact of Global Warming on Environment and Human Health, organised by SS College for Women (Autonomous), Mysuru  | 25.08.2020    | Attended  |
|                            | Internal Webinar on Post Covid Global Economy: A Rethink on Strategies & Policy, organised by NBU   | 27-28.08.2020 | Attended  |
|                            | 21 days Online GIS Training Using QGIS, organised by Central University of Karnataka jointly with Institute of Urban Development, Karnataka   | 7-27.09.2020  | Attended  |

| Name                     | Name of the Seminars/<br>Conferences  | Date              | Title of the paper<br>presented  |
|--------------------------|---|-------------------|--|
|                          | Research Methodology Using SPSS Software, organised by Khawaja Moinuddin Chisti Language University, Lucknow  | 20-<br>21.10.2020 | Attended   |
| Dr.<br>Snehasish<br>Saha | Introduction to Sentinel Products and its Processing Tools, organised by Albedo Foundation  | 21.02.2021        | Attended   |
|                          | 32 <sup>nd</sup> Annual Conference of IGI ‘Geomorphology for Human Adaptation to Changing Environment’, organised by Indian Institute of Geomorphologists | 21-<br>23.01.2021 | Slope Movement Assessment and Management   |
|                          | 32 <sup>nd</sup> Annual Conference of IGI ‘Geomorphology for Human Adaptation to Changing Environment’, organised by Indian Institute of Geomorphologists | 21-<br>23.01.2021 | Identification of the bank erosion signatures and its sub-types factorizing change in channel width: A Case Study of River Ganga in Malda District, West Bengal, India |
|                          | What’s Next on the Global Water Crisis?-Issues, Solutions and Hydrogrameen, organised by International Institute of Bengal and Himalayan Basins           | 06.12.2020        | Attended   |
|                          | Workshop on ‘La Tex for Students, Engineers and Professionals, organised by Albedo Foundation   | 16.10.2020        | Attended   |
|                          | Webinar ‘Emerging Issues and Challenges in Social Science: A Retrospect during the period of Covid 19 Pandemic’, organised by Maynaguri College           | 27.09.2020        | A Retrospect on Global case- distribution pattern of COVID-19 Pandemics, the most unrelenting fate   |
|                          | Webinar ‘Emerging Issues and Challenges in Social Science: A Retrospect during the period of Covid 19   | 27.09.2020        | Attended   |

| Name                             | Name of the Seminars/<br>Conferences  | Date              | Title of the paper<br>presented  |
|----------------------------------|---|-------------------|--|
|                                  | Pandemic', organised by<br>Maynaguri College  |                   |  |
| Dr. Indrajit<br>Roy<br>Chowdhury | Quality During lockdown:<br>Experience of West Bengal   | 02.10.2020        | Attended   |
|                                  | Geographical Perspective of Water<br>Resource and Challenges  | 16.07.2020        | Attended   |
|                                  | International Webinar on Covid-19<br>Pandemic: A Geo Ecological<br>Perspective  | 26-<br>27.09.2020 | Attended   |
| Dr. Rupak<br>Kumar Paul          | Two Days Online International<br>Conference on Geography as a<br>Discipline: Opportunities and<br>Challenges, organised by Dewan<br>Abdul Gani College            | -                 | Change Detection in<br>Hydrological Time Series<br>Data  |
| Dr.<br>Surjapada<br>Paul         | International E-conference on<br>'Implications of COVID -19 on<br>local and regional sustainable<br>development: A global<br>perspectives'                        | 27-<br>28.06.2020 | The Covid –19 and its<br>effect on the livelihood of<br>migrant labour in North<br>Bengal: An analysis     |
|                                  | International E-Conference on<br>Agriculture and Rural<br>Development: Spatial Issues,<br>Challenges and Approaches,<br>organised by P.A.H Sholapur<br>University | 10.08.2020        | Challenges of agricultural<br>labourers and rural<br>development of<br>Alipurduar district: An<br>analysis |

**Details of Seminar/Conferences /Webinar Attended by Students:**

| Name               | Details of the Seminars/Conferences   | Date              |
|--------------------|---|-------------------|
| Presenjit<br>Kayal | 40 <sup>th</sup> INCA International Congress on digital Mapping Innovation<br>in Make India Initiatives   | 10-<br>12.02.2021 |
|                    | 1 <sup>st</sup> International e-conferences on Implications of COVID-19 on<br>local and regional Sustainable Development: A Global<br>Perspective, organised by International Geographical Union, India | 27-<br>28.06.2020 |
| Subham<br>Mustafi  | 40 <sup>th</sup> INCA International Congress on Digital Mapping Innovation<br>in Make India Initiatives   | 10-<br>12.02.2021 |

| <b>Name</b>         | <b>Details of the Seminars/Conferences</b>   | <b>Date</b>   |
|---------------------|--|---------------|
| Kunal Chakraborty   | Webinar title:“Application of Geospatial Techniques in Hydrology” by Albedo Foundation   | 04.07.2020    |
|                     | National webinar on “River Basin and its Influence on Surrounding Inhabitants”, organised by Ranaghat College                                  | 11.08.2020    |
|                     | National webinar on “ Future Trends of Research in Geographical Studies”, organised by Heramba Chandra College                                 | 31.08.2020    |
|                     | National webinar on Role of Geospatial Technology in Advance Geographical Research”, organised by Mizoram University                           | 31.10.2020    |
|                     | 32 <sup>nd</sup> Annual Conference of the Indian Institute of Geomorphologists, organised by West Bengal State University                      | 21-23.01.2021 |
| Bhupesh Roy Pradhan | National webinar on ‘River basin and its influence on surrounding inhabitants’, organised by Ranaghat College                                  | 11.08.2020    |
| Mantu Das           | 32 <sup>nd</sup> Annual Conference on Geomorphology for Human Adaptation to Changing Environment, organised by West Bengal State University    | 21-23.01.2021 |
|                     | International Webinar on “Challenges of Climate Change and Sustainable Development Goals”, organised by Adamas University                      | 29.06.2020    |
|                     | Application of GIS-RS Based Techniques and Research Horizon in Geographical Studies, organised by Adamas University                            | 20.06.2020    |
|                     | Changing Geographies: Living with the Pandemic, organised by St. Xavier’s College, Burdwan   | 08.06.2020    |
|                     | Webinar lecture on “Opportunities of MSME and Start-ups through the Economic Packages of Government of India”, organised by SAIARD             | 31.05.2020    |
|                     | Panel Discussion on “The Science of Places: Exploring the Career Goals and Competencies of Future Geographers”, organised by Adamas University | 31.05.2020    |
|                     | Road Map of Future Geographers, 2020, organised by Adamas University   | 18.05.2020    |
|                     | Application of Geospatial Techniques in Hydrology, organised by Albedo Foundation  | 07.07.2020    |
|                     | Webinar on “Distinct Landforms of West Bengal: Alluvial Fans and Badlands”, organised by Vivekananda College for Women, Kolkata                | 31.07.2020    |
|                     | Two-day Webinar series on Applications of Conceptual Hydrogeology, organised by Presidency University  | 05-06.2020    |

| <b>Name</b>     | <b>Details of the Seminars/Conferences</b>  | <b>Date</b>   |
|-----------------|---|---------------|
|                 | National Webinar on “River Basin and its Influence on Surrounding Inhabitants”, organised by Ranaghat College   | 11.08.2020    |
|                 | Webinar on “Remote Sensing and Resource Management”, organised by Guwahati College  | 13.07.2020    |
|                 | International Webinar on “Resource Studies: A changing Paradigm in Social Sciences”, organised by IIARI   | 16.08.2020    |
| Tapash Mandal   | Two-Day International Webinar on Recent Advances in Environmental Research, organised by University of Gour Banga   | 24-25.09.2020 |
| Baidurya Biswas | 'Earth Talks 2020': One Day International Webinar. Talk on Climate Change and Earth's Landscape, organised by Kazi Nazrul University  | 24.06.2020    |
|                 | Vulnerability and Risk Reduction of Landslides Disaster with special reference to North East India, organised by Govt. Hrahthial College  | 01-07.10.2020 |
|                 | Our Cosmic Consciousness, organised by Servite Arts and Science College for Women, Tamilnadu  | 29.06.2020    |
|                 | International Webinar on “Challenges of Climate Change and Sustainable Development Goals”, organised by Adamas University   | 29.06.2020    |
|                 | Using Giga Pan for Remote Sensing’, organised by the Geological Society of America  | 23.06.2020    |
|                 | Using Virtual Landscape for Remote Sensing’, organised by the Geological Society of America   | 30.06.2020    |
|                 | International Webinar on ‘Global Health Crisis and Socio-Economic Impact of COVID-19: A Geographical Perspective’, organised by Rajiv Gandhi University, Arunanchal Pradesh   | 18.06.2020    |
| Debarshi Ghosh  | National Seminar on Geography & Development, organised by   | 13.03.2020    |
|                 | 32 <sup>nd</sup> Annual Conference on Geomorphology for Human Adaptation to Changing Environment, organised by West Bengal State University   | 21-23.01.2021 |
| Argha deep Bose | Passed a ten days online FDP certificate course on “Advancements in Environmental Remote Sensing and Machine Learning” conducted by Centre for Advanced Research in Environment and Remote Sensing (CAREER), Madurai, Tamil Nadu, India                 | xx.05.2020    |
|                 | Passed a seven days online certificate course on “Basic of Remote Sensing, Geographical Information System (GIS) and Global Navigation Satellite System (GNSS)” sponsored by AICTE in collaboration with Francis Xavier Engineering College, Tirinelvei | 21-26.09.2020 |

| <b>Name</b>        | <b>Details of the Seminars/Conferences</b>  | <b>Date</b>   |
|--------------------|---|---------------|
|                    | Passed a seven days online certificate course on “Research Methodology” jointly organized by GRABS Educational Charitable Trust and Tamil Nadu Association of Intellectuals and Faculty | 05-11.05.2020 |
|                    | Passed a four days online certificate course on “ Research Ethics and Publication Ethics” organized by Indian Academic Researchers Organization, Tamilnadu, India                       | 12-15.04.2020 |
| Subham Roy         | Five-day National level workshop on “Thermal remote sensing & GIS” by IIARI, Kolkata  | 2020          |
|                    | Workshop on “Basics of GIS” by Georation and Dibrugarh University,  | 2020          |
|                    | Two days’ international workshop on “Getting familiar with ArcGIS: Use of ArcGIS in research” by Geospatial maple, Lucknow, 2020  | 2020          |
|                    | Online training on I. “Spatial Data analytics (QGIS)”, II. “Training on QGIS beginner”, and III. “SPSS Basics”, by TGIS LAB, Ahmedabad, Gujarat   | 2020          |
|                    | Four days online training program on “Agriculture based water pollution” by TERI school of advance studies, Delhi   | 2020          |
| Suranjan Majumder  | Reference Management Tools and Online Citation Database, organised by Indian Academic Researchers Association, Tiruchirapalli   | xx.04.2020    |
|                    | Geographical Perspectives of Water Resources: Issues and Challenges, organised by Russian Geographical Society and the National Association of Geographer, India                        | xx.07.2020    |
|                    | SPSS Software & Research Methodology, organised by SAIARD & SPSS, South Asia  | xx.09.020     |
|                    | Contemporary Methodologies and Tools in Research, organised by Visva-Bharati  | xx.10.2020    |
| Prosenjit Kayal    | International Climate Talk, organised by Youth Net for Climate Justice, Bangladesh and Bahugol o Praibesh, India  | xx.06.2020    |
|                    | Geographical Perspectives of Water Resources: Issues and Challenges, organised by Russian Geographical Society and the National Association of Geographer, India                        | xx.07.2020    |
|                    | SPSS Software & Research Methodology, organised by SAIARD & SPSS, South Asia  | xx.09.2020    |
| Debarati Chowdhury | Contemporary Methodologies and Tools in Research, organised by Visva-Bharati  | xx.10.2020    |



**Publications:**

| Author                          | Name of the Book/Journal/Volume  | Year |
|---------------------------------|--|------|
| <b>Prof. Subir Sarkar</b>       |  |      |
| S. Sarkar and B. Paul           | Interaction between Road Network Connectivity Pattern and Development in Darjeeling District of West Bengal, India, <i>Indian Journal of Landscape Systems and Ecological Studies</i> , Vol. 43 (1)  | 2020 |
| S. Sarkar and D Chattoraj       | Identification and Assessment of Avifaunal Diversity in and around Wetlands of Malda District, West Bengal, India, Geographical Thoughts, 2020, page 1-15 <i>Geographical Thought, University of North Bengal</i> , ISSN: 2229-466X, Volume: XVIII   | 2020 |
| S. Sarkar et.al.                | Morphological and sedimentological responses of small stream channels to extreme rainfall and land use in the Darjeeling Himalayas, Prokop, <i>Catena</i> 188 (2020) 104444, Elsevier B.V, Page 1-13,  | 2020 |
| S. Sarkar and B. Paul           | The contagion effect of Covid – 19 and public transportation system: conceptualizing the shifting paradigm in India , Book: <i>Covid-19 Pandemic Trajectory in the Developing World</i> , Ed. R.B. Singh & M. Misra ed; Springer, pp. 231-256; ISBN 978-981-33-6439-4; ISSN 2198-3542                      | 2021 |
| <b>Prof. D K Mandal</b>         |  |      |
| D K Mandal, R Mitra & G Hossain | Study on Topographical condition and Meandering Lower Course and its Impact of the Raidak-I and Turturi Interfluve, Book: <i>Applications of Geospatial Technology in Geomorphology and Environment</i> , Ed. D. K. Mandal and R. Roy. North Bengal University Press, ISBN: 978-81-925799p3-1, pp. 123-139 | 2020 |
| D K Mandal and S Das            | Status of development in different blocks of Jalpaiguri district, <i>Innovations</i> , No. 63 Issue 1, page 74-86  | 2020 |
| D K Mandal and G Mandal         | Modelling and mapping geospatial distribution of ground water potential zones in Darjeeling Himalayan region of India using analytical hierarchy process and GIS technique, <i>Modelling and Earth Systems and Environment</i> , pp. 1-22  | 2021 |
| D K Mandal and J Alam           | Assessing groundwater status and human perception in drought-prone areas: a case of Bankura-I and Bankura-II blocks, West Bengal (India). <i>Environmental Earth Sciences</i> , 80(18), 1-23   | 2021 |
| <b>Prof. Ranjan Roy</b>         |  |      |
| R Roy and A Saha                | A Spatio-Temporal Analysiso Urban Growth and Identification of Urban Sprawling of Siliguri Municipal Corporation, West Bengal, India. <i>Hill Geographer</i> , ISSN: 0970-5023, Vol 36, Issue 1  | 2020 |

| Author                                | Name of the Book/Journal/Volume   | Year |
|---------------------------------------|---|------|
| R Roy and S Karmakar                  | Agricultural Regionalization of Koch Bihar District, West Bengal: A Geographical Analysis. <i>Indian Journal of Spatial Science</i> , ISSN: 2249 – 3921, Vol 11, Issue 2  | 2020 |
| R Roy and A Saha                      | Traffic Congestion and Urban Mobility: A Study in Siliguri Municipal Corporation (Smc), West Bengal, India. <i>Geographical Thoughts</i> , ISSN: 2229-466X, Vol. XVIII  | 2020 |
| R Roy, S Karmakar and A Saha          | Spatial Variation in Demographic Development in Koch Bihar District, West Bengal: An Inter Block Wise Appraisal. <i>IOSR Journal of Humanities and Social Science</i> , E-ISSN: 2279-0837, P-ISSN: 2279-0845, Vol. 25, Issue. 12                        | 2020 |
| R Roy and S Karmakar                  | Trends and Patterns of Female Work Participation in Koch Bihar District, West Bengal: An Analysis. <i>Journal of Kolkata Society for Asian Studies</i> , ISSN- 2454-5694, Vol. 6, No. 2.  | 2020 |
| R Roy and S Karmakar                  | An Analysis of Crop Combination Regions- A Case Study of Cooch Behar District Based On John carrier Weaver’s Method. <i>International Journal of Current Research</i> , ISSN: 0975-833X, Vol. 13, Issue. 01   | 2021 |
| R Roy, M Debnath, S Roy and N Islam   | Determine The Regions of Outmigration in North-East India: A Cross Sectional Analysis. <i>Spatial Information Research</i> , E-ISSN: 2366-3294, P-ISSN: 2366-3286, Vol. 29. IF: 2.9   | 2021 |
| R Roy and A Roy                       | An Integrated Approach to Identify Suitable Areas for Built up Development Using GIS-Based Multi-Criteria Analysis and AHP in Siliguri Planning Area, India. <i>Springer Nature Applied Sciences</i> , E-ISSN: 2523-3971, Vol. 3, Issue 4, IF: 1.0      | 2021 |
| R Roy T Debnath, B Barman and N Islam | Fertility Transition and its Socio-Economic Factors in West Bengal, India. <i>IASSI Quarterly: Contributions to Indian Social Science</i> , P-ISSN: 0970-9061, E-ISSN: 0974-018X, Vol. 40, No. 1  | 2021 |
| R Roy and T Debnath                   | Income and Employment Structure of Handloom Industry - A Case Study of Tufanganj-II Block, Cooch Behar District, West Bengal. Book: <i>Socio-Economic Development and Environmental Sustainability: The Indian Perspective</i> , ISBN 978-93-90124-61-9 | 2020 |
| R Roy, S Karmakar and A B Barman      | An Analysis of Trends and Patterns of Sex Ratio in Koch Bihar District of West Bengal. Book: <i>Socio-Economic Development and Environmental Sustainability: The Indian Perspective</i> , ISBN 978-93-90124-61-9  | 2020 |
| R Roy and B Barman                    | Assessment of Mahatma Gandhi Rural Employment Guarantee Scheme (MGNREGS) on Rural Out-Migration in Koch Bihar District, West Bengal: A Multivariate Analysis. Book: <i>Socio-Economic Development</i>   | 2020 |

| Author                            | Name of the Book/Journal/Volume  | Year |
|-----------------------------------|--|------|
|                                   | <i>and Environmental Sustainability: The Indian Perspective</i> , ISBN 978-93-90124-61-9   |      |
| R Roy and A H Miah                | Socio-Economic Status of Women: A Case Study from West Bengal. Book: <i>Geography in the 21st Century: Emerging Issues and the Way Forward</i> , ISBN : 978-81-947715-9-3  | 2020 |
| R Roy and S Karmakar              | An Assessment of Land Use and Land Cover Change in Koch Bihar District, West Bengal. <i>Geography in the 21st Century: Emerging Issues and the Way Forward</i> , ISBN : 978-81-947715-9-3  | 2020 |
| R Roy and P Sen                   | Infrastructural Development of School Education in Kharibari C.D. Block of Darjiling District, Book: <i>West Bengal. Education in the 21<sup>st</sup> Century: Emerging Issues and the Way Forward</i> , ISBN: 978-81-947715-8-6 (jointly with Punama Sen) | 2020 |
| R Roy and A Saha                  | Spatial Disparity in The Level of Education in Kakdwip Subdivision of South 24 Pargana, Book: <i>West Bengal. Education in the 21<sup>st</sup> Century: Emerging Issues and the Way Forward</i> , ISBN: 978-81-947715-8-6 (jointly with Arjun Saha)        | 2020 |
| R Roy and B Roy                   | Role of Science, Technologies and Innovations to Tackle the Covid-19 Pandemic in India: A Brief Analysis. Book: <i>The Covid 19 Pandemic: A Review of the Social, Economic and Environmental Issues/Challenges</i> , ISBN 978-93-5427-451-0                | 2021 |
| <b>Dr. Indira Lepcha Nee Lama</b> |  |      |
| I Lepcha and N D Lama             | Trend and Differentials of Total Fertility Rate by Background Characteristics in India: <i>A Study from National Family Health Survey-1 to National Family Health Survey-4</i> , 2021 pp. 51-75  | 2021 |
| I Lepcha and P Chowdhury          | Demographic Characteristics of the Socially Vulnerable Residents in Landslide Prone Area: A Study of Chibo Pashyor, Kalimpong District, West Bengal, 2021 pp. 76-84  | 2021 |
| I Lepcha and T Saha               | Study on the Occupational Status of Women of Matigara Community Development Block Darjeeling District, WestBengal, <i>Journal of Women's Studies</i> , Vol. IX, ISSN-2320-3625, pp. 56-69  | 2020 |
| <b>Dr. Arindam Basak</b>          |  |      |
| A. Basak                          | Male-Female Disparity in Literacy Rate across Urban Centres of North Bengal; <i>ShodhSarita</i> ; Vol 7, Issue 26  | 2020 |
| A. Basak                          | Analyzing the population balance sheet of urban centres in north Bengal by place and by size-class; <i>Shodh Sanchar</i> ; Vol 10, Issue 38  | 2020 |
| A. Basak                          | Female Literacy Rate in Urban Centres: A Case study from North Bengal; <i>Wesleyan Journal of Research</i> ; Vol 13 No 11  | 2020 |
| A. Basak                          | Distribution of Scheduled caste population across urban centres of north Bengal; <i>ShodhSarita</i> ; Vol 7, Issue 28  | 2020 |

| Author                              | Name of the Book/Journal/Volume   | Year |
|-------------------------------------|---|------|
| A. Basak                            | A Geographical account of the Distribution of Scheduled Tribe Population Among Various Urban Centres of North Bengal; <i>Shodh Sanchar</i> ; Vol 10, Issue 38   | 2020 |
| <b>Dr. Snehasish Saha</b>           |   |      |
| S Saha and K Chakraborty            | Monitoring Channel Migration : A Case Study of River Ganga in Diara Region of Malda District, West Bengal”, <i>Geographical Thoughts</i> , Vol. XIX; ISSN 2229-466X   | 2021 |
| S Saha                              | Bed Load Characteristics as indicator to the evolution of Channel bed aggradation, a case of river Lish in Sub-Himalayan forelands, Darjeeling, West Bengal; <i>Geographical Thoughts</i> , Vol. XVIII; ISSN 2229-466X  | 2020 |
| S Saha, D Poddar and S Mukhopadhyay | ‘Spatial Variation of Arsenic Contamination in the groundwater of Malda District, West Bengal, India’; Editor: Surjapada Paul; ISBN 978-81-925799-4-8; Book: <i>Geography and Development</i> ; Page:58-71  | 2020 |
| S Saha                              | A retrospect on Global Case-distribution pattern of COVID-19 Pandemics, the most Unrelenting Fate, Book: <i>The COVID-19 Pandemic</i> , Ed: Madhusudan Karmakar; ISBN 978-93-95427-451-0  | 2021 |
| S Saha and M Das                    | Restoration of natural environment towards sustainability in Pandemic COVID-19:Aspecial reference to city Area of West Bengal, India; Book: <i>The COVID-19 Pandemic</i> , Ed: Madhusudan Karmakar; ISBN 978-93-95427-451-0                                     | 2021 |
| S Saha and B R Prodhan              | Documentation of Surface Soil Characteristics as Indicator of Agricultural Outcome: A Case Study of Dhupguri Block, Jalpaiguri (West Bengal); <i>Annals of the National Association of Geographers India</i> , ISSN 0970-972X, vol. 40(2) 2020                  | 2020 |
| S Saha and B Biswas                 | Channel Oscillation in view of Sinuosity: A Study of River Gadadhar, Cooch Behar District under RS and GIS Environment, Book: <i>Hydrology; Application of Remote Sensing and GIS</i> ; Ed. Niranjan Bhattacharjee; ISBN 978-81-944668-7-1; Vol.1; Page : 23-35 | 2020 |
| S Saha                              | Characterization of Spatial Variability of Soil Properties of Malda District, West Bengal, India’; <i>Book: Agriculture, Food and Nutrition Security</i> , Ed. Rukhsana & Asraful Alam, Chapter:04; Pub.: Springer Nature Switzerland AG,2021                   | 2021 |
| S Saha and D Ghosh                  | Determining the spatio-temporal response of downstream coarse sediment sorting process in the Chel river (North Bengal, India) using cluster, <i>Modeling Earth Systems and Environment</i> , Vol.1   | 2020 |
| <b>Dr. I Roy Chowdhury</b>          |   |      |

| <b>Author</b>                      | <b>Name of the Book/Journal/Volume</b>  | <b>Year</b> |
|------------------------------------|---|-------------|
| I R Chowdhury and A Bose           | Monitoring and Modelling of Spatio temporal Urban Expansion and Land use / land cover change using markov chain model: A case Study in Siliguri Metropolitan Area, West Bengal, India, <i>Modelling Earth System and Environment</i> , Springer, ISSN:2363-6203   | 2020        |
| I R Chowdhury, A Bose and G Mandal | A Study on Inter Block Level Regional Disparity Analysis of Uttar Dinajpur District, West Bengal , Book: <i>Geography in the 21 st Century: Emerging Issues and the Way Forward</i> , Ed. Ranjan Sarkar, Namaya Press , New Delhi, ISBN: 978-81-947715-9-3 pp. 225-249  | 2020        |
| I R Chowdhury and D Basak          | Achievement and Failure of MGNREGA (Financial Year: 2017-18) at Panchayat Level with Special Reference to Nishiganj Gram Panchayat, Mathabhanga II Block, Coochbehar District, West Bengal, <i>Geographical Thought</i> , University of North Bengal, ISSN: 2229-466X, Volume: XVIII, 2020  | 2020        |
| I R Chowdhury                      | Societal Representation of Folk Culture: A Case of Chhow Mask Makers in Charida Village, Purulia, West Bengal, <i>Geographical Thought</i> , University of North Bengal, ISSN: 2229-466X, Volume: XVI   | 2020        |
| I R Chowdhury and S Majumdar       | Gender Disparity in Literacy Status : A Case Study of Nadia District, West Bengal, India, Book: <i>Education in the 21 st Century: Emerging Issues and the Way Forward</i> , Ed. Ranjan Sarkar, Namaya Press, New Delhi, ISBN: 978-81-947715-8-6 pp. 206-232  | 2020        |
| I R Chowdhury and P Kayal          | Role of Micro Finance in Empowering Rural Women: An Empirical Study of Falta C.D Block, South 24 Parganas District, West Bengal, Book: <i>Education in the 21 st Century: Emerging Issues and the Way Forward</i> , Ed. Ranjan Sarkar, Namaya Press, New Delhi, ISBN: 978-81-947715-8-6 pp. 135-158                                     | 2020        |
| I R Chowdhury and D Chowdhury      | An Assessment of the Status of Household Solid Waste and its Management : A Case Study of Jalpaiguri Municipality, West Bengal, India: An Insight, Book: <i>Environmental Sustainability in the 21st Century: Emerging Issues and the Way Forward</i> , Ed. Ranjan Sarkar, Namaya Press, New Delhi, ISBN: 978-81-947715-1-7 pp. 343-355 | 2020        |
| <b>Dr. Riti Moktan</b>             |   |             |
| Riti Moktan et. al                 | Population, Development and Environmental Sustainability Challenges and Opportunities   | 2021        |
| <b>Dr. Surjapada Paul</b>          |   |             |
| S Paul                             | The COVID - 19 and its effect on the livelihood of migrant labour in North Bengal: An analysis, <i>Gradiva Review Journal</i> , Vol. 7, Issue- 3, pp. 108-114, ISSN (Online): 0363-8057   | 2021        |

| Author           | Name of the Book/Journal/Volume   | Year |
|------------------|---|------|
| S Paul, et. al.  | An Assessment of Cultivators' Perception about Climate Change and It's-induced Adaptation Practices in Agriculture of Cooch Behar Sadar Sub-division, West Bengal, India, <i>Applied Ecology and Environmental Sciences</i> , Vol. 9, No. 2, pp. 271-279, ISSN (Print): 2328-3912 | 2021 |
| S Paul and S Das | An Assessment of Cultivators' Perception about Climate Change and It's-induced Adaptation Practices in Agriculture of Cooch Behar Sadar Sub-division, West Bengal, India, <i>Applied Ecology and Environmental Sciences</i> , Vol. 9, No. 2, pp. 271-279                          | 2021 |

### Research Projects Details:

| Title of the Project   | PI                   | Sponsored by | Year of Sanction | Duration | Budget (Rs.) |
|--|----------------------|--------------|------------------|----------|--------------|
| 'Documentation of channel migration and land loss with special reference to bank soil characteristics: a case study of River Ganga in Malda District, West Bengal' | Dr. S Saha           | DSTBT        | 2019             | 3 years  | 9, 45, 800   |
| Disaster Management with focus on Sub-Himalayan North Bengal   | Prof. S. Sarkar      | UGC          | -                | -        | 68,00,000    |
| Terrain sensitivity assessment based on ASTER DEM and filed investigation for environmental planning of Darjeeling district, West Bengal, India                    | Dr. S K Bhattacharya | NBU          | 2020             | 1 year   | 1,50,000     |
| A Comparative Study on Surface Soil Characteristics and Changing Land Use Land Cover Scenario of Dhupguri and Maynaguri blocks of Jalpaiguri, West Bengal, India   | Dr. S Saha           | NBU          | 2020             | 1 year   | 1,50,000     |
| Homestay Tourism in North Bengal: Problems and Potentialities  | Dr. I R Chowdhury    | NBU          | 2020             | 1 year   | 1,50,000     |

## DEPARTMENT OF GEOLOGY

### About the Department:

The Department of Geology, University of North Bengal was established in 2018 to promote higher studies in the field of Geological Sciences. This Department is offering post graduate studies and doctoral/ post-doctoral research for the first time in the North Bengal. The Department also offers three-year (CBCS) undergraduate (B. Sc) course.

In spite of being in extremely young, the Department has already demonstrated its presence in national forum. Faculty members are engaged in advanced research of various fundamental earth science problems. The Department regularly invites stalwarts of the field as guest faculties to provide highest possible learning experience to the students. The Department has already established a front-line geochemical laboratory and regular geological laboratory facilities including high-resolution microscope facility (petrology and micro-paleontology), computer laboratory.

Department of Geology regularly organizes geological field training program as a part of curriculum in various important parts of the Indian peninsula and extra-peninsular region. Students of the Department are always encouraged to think independently in terms of their master's dissertation and regular interactive sessions. Being strategically located at the foothills of the Himalayas, the Department has immense scope to grow further and flourish to become a leading earth science research and teaching institution in the region.

### Courses Offered:

- B. Sc. (Geology Honours)
- M. Sc.
- Ph. D.

### Research Focus:

- Palaeoclimatology
- Sedimentology
- Sequence stratigraphy
- Early earth geodynamics

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| B. Sc. | 2020 | 24   | 13     | 37    | 11 | 1  | 1     | 1     | 23  |
| M. Sc. | 2020 | 12   | 9      | 21    | 3  | -  | -     | 1     | 17  |

### Faculty Details:

| Name               | Qualification | Designation     | Email            |
|--------------------|---------------|-----------------|------------------|
| Dr. Pradip Samanta | Ph.D.         | Asst. Professor | geolps@nbu.ac.in |
| Koushik Saha       | M.Sc.         | Asst. Professor | saha@nbu.ac.in   |

| Name                        | Qualification | Designation                   | Email                         |
|-----------------------------|---------------|-------------------------------|-------------------------------|
| Dr. Debaditya Bandyopadhyay | Ph.D.         | Asst. Professor (Contractual) | debaditya.b2r@gmail.com       |
| Subhadeep Majumder          | M.Sc.         | Asst. Professor (Contractual) | subhadeepmajumdar16@gmail.com |

#### Details of Non-Teaching Staff:

| Name             | Qualification | Designation       |
|------------------|---------------|-------------------|
| Anita Roy        | M.A.          | Sr. Assistant     |
| Kumar Darjee     | 8th passed    | Sr. Peon          |
| Bimalendu Singha | M.Lib.        | Group-D (Mandays) |

#### Details of PhD Students (Without Fellowship):

| Name         | Supervisor's Name  | Gender | Date of Admission |
|--------------|--------------------|--------|-------------------|
| Madhurya Roy | Dr. Pradip Samanta | Female | 13.03.2021        |

#### Details of Seminar/Conferences /Webinar Attended by Faculty:

| Name of the Teacher         | Name of the Seminars   | Venue & Date   | Title of the Paper Presented   |
|-----------------------------|------------------------|--|--|
| Dr. Debaditya Bandyopadhyay | JpGU-AGU Joint Meeting | Online<br>12 <sup>th</sup> to 16 <sup>th</sup><br>July, 2020 | Clues to Cretaceous subduction initiation in South-East Asia - A geochronological and geochemical perspective from the Andaman Ophiolite |
| Koushik Saha                | JpGU-AGU Joint Meeting | Online<br>2020   | Spatial variability of grain size parameters and depositional process in the coastal marshland of Orissa, India.                         |

#### Publications:

| Name of the Author                      | Details of Book/Journal/Volume   | Year |
|---|--|------|
| Bandyopadhyay, D., et. al.              | Geochemical and geochronological record of the Andaman Ophiolite, SE Asia: From back-arc to forearc during subduction polarity reversal? DOI: 10.1016/j.lithos.2020.105853                                     | 2021 |
| Plunder, A., Bandyopadhyay, D., et. al. | History of subduction polarity reversal during arc-continent collision: constraints from the Andaman Ophiolite and its metamorphic sole, <i>Tectonics</i> , vol-39, e2019TC005762, [DOI: 10.1029/2019tc005762] | 2020 |



| <b>Name of the Author</b>         | <b>Details of Book/Journal/Volume</b>   | <b>Year</b> |
|-----------------------------------|---|-------------|
| <b>Bandyopadhyay, D., et. al.</b> | Andaman Ophiolite: An Overview. <i>In: Ray, J. S. and Radhakrishna, M. (eds.), The Andaman Islands and Adjoining Offshore: Geology, Tectonics and Palaeoclimate, Springer International Publishing, Cham, pp.1-17. [DOI: 10.1007/978-3-030-39843-9_1]</i> | 2020        |
| <b>Bandyopadhyay, D., et. al.</b> | Clues to Cretaceous subduction initiation in South-East Asia - A geochronological and geochemical perspective from the Andaman Ophiolite. <i>JpGU-AGU Joint Meeting 2020</i>  | 2020        |

### Research Projects Details:

| <b>Title of the Project</b>   | <b>PI</b>          | <b>Sponsored by</b>         | <b>Year of Sanction and duration</b> | <b>Budget (Rs.)</b> |
|---|--------------------|-----------------------------|--------------------------------------|---------------------|
| Sedimentology and sequence stratigraphy in the lower two Members, viz., Kendur Conglomerate and Cave Temple Arenite, of the Badami Group, Kaladgi Supergroup, Karnataka with special emphasis on the control of Uranium mineralization. | Dr. Pradip Samanta | UGC-Start-up Grant          | 2019, 2 years                        | 10,00,000           |
| A multiproxy approach to trace the effects of sea level rise and climate change in the coastal wetland ecosystem of West Bengal   | Koushik Saha       | DSTBT, Govt. of West Bengal | 2018, 3 years                        | 2,85,000            |

## DEPARTMENT OF MATHEMATICS

### About the Department:

The Department of Mathematics, NBU came into existence in 1962 with the major objective of developing a centre for excellence in the region of North Bengal in Mathematical Sciences and Applications and to provide facilities for training, study, research in these areas. Pioneering research contributions have come from the faculty members in the field of Real Analysis, Complex Analysis, Topology, Relativity & Astrophysics, Graph Theory, Dynamical Systems and Geometry.

The Department has the distinction of having on its staff Fullbright Fellow, Erasmus International Fellow, TWAS-UNESCO visiting Professor JSPS Scholar, Ramanujan Fellow, etc. The Department has a record of almost 100% employments at various levels, starting from High Schools, Colleges and Universities to Research Laboratories like DRDO, CSIR Labs and others.

The Department has been receiving annual Library Grant from NBHM since 1991. The Departmental library has about 6500 books and subscribes a large number of International and Indian Peer-Reviewed journals including Mathematical Reviews. The Department has procured about 208 books and built a Smart Classroom funded by RUSA (Rashtriya Uchchatar Shiksha Abhiyan). The Department also has a large computing facility sponsored by the DST-FIST grant. The Department is co-ordinating the Mathematical Olympiads and related training programmes for high school students, Madhava Mathematics Competition for undergraduate students in affiliated colleges and other colleges in the vicinity and Refresher Courses in Mathematics organized by ASC-NBU.

### Courses Offered:

- M. Sc.
- M. Phil.
- Ph. D.

### Research Focus:

- Real and Complex Analysis
- Topology
- Functional Analysis and Algebra
- Theoretical and Computational Mechanics
- Ideal and Statistical Convergence
- Dynamical Systems
- Fuzzy Algebra
- Cosmology

### Faculty Details:

| Name                    | Qualification | Designation | Email                    |
|-------------------------|---------------|-------------|--------------------------|
| Prof. Suparna De Sarkar | Ph.D.         | Professor   | suparnamath@nbu.ac.in    |
| Prof. Manorajan Singha  | Ph.D.         | Professor   | manorajan.math@nbu.ac.in |

| <b>Name</b>                | <b>Qualification</b> | <b>Designation</b> | <b>Email</b>                |
|----------------------------|----------------------|--------------------|-----------------------------|
| Dr. Sanjoy Kumar Ghosal    | Ph.D.                | Assoc. Professor   | sanjoykumarghosal@nbu.ac.in |
| Dr. Dilip Chandra Pramanik | Ph.D.                | Asst. Professor    | dcpramanik_math@nbu.ac.in   |
| Dr. Nita Tamang            | Ph.D.                | Asst. Professor    | nita_math@nbu.ac.in         |
| Dr. Siddhartha Biswas      | Ph.D.                | Asst. Professor    | siddhartha.math@nbu.ac.in   |
| Dr. Paltu Sarkar           | Ph.D.                | Asst. Professor    | pal2_math_796@nbu.ac.in     |
| Dr. Bibaswan Dey           | Ph.D.                | Asst. Professor    | bibaswandey@nbu.ac.in       |
| Shri. Kalyan Saha          | M.Sc.                | Asst. Professor    | kalyansaha@nbu.ac.in        |
| Dr. Sujay Kumar Biswas     | Ph.D.                | Asst. Professor    | sujay.math@nbu.ac.in        |

#### **Details of Non-Teaching Staff:**

| <b>Name</b>        | <b>Qualification</b> | <b>Designation</b>     |
|--------------------|----------------------|------------------------|
| Smt. Sonali Sarkar | B.A., CIT (Computer) | Jr. Assistant (Casual) |
| Smt. Rahenu Banu   | H.S.                 | Sr. Peon               |

#### **Details of Research Scholars:**

| <b>Name</b>           | <b>Fellowship Status</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> |
|-----------------------|--------------------------|--------------------------|---------------|------------------------|
| Kapil Roy             | CSIR                     | Dr. D C Pramanik         | Male          | 08.01.2016             |
| Jayanta Roy           | State Fellowship         | Dr. D C Pramanik         | Male          | 04.05.2017             |
| Sima Roy              | CSIR                     | Prof. M. Singha          | Female        | 07.01.2019             |
| Sourav Mandal         | UGC                      | Dr. S K Ghosal           | Male          | 01.01.2020             |
| Bishal Tamang         | CSIR                     | Dr. Nita Tamang          | Male          | 03.01.2020             |
| Ismail Haque          | UGC                      | Dr. S. Biswas            | Male          | 11.11.2020             |
| Pitu Sarkar           | UGC                      | Dr. Nita Tamang          | Female        | 11.03.2021             |
| Rinki Paul            | DST-INSPIRE              | Dr. Paltu Sarkar         | Female        | 12.03.2021             |
| Apurba Sarkar         | CSIR-JRF                 | Dr. D C Pramanik         | Male          | 17.03.2021             |
| Nimai Dey             | SVMCM                    | Dr. D C Pramanik         | Male          | 18.03.2021             |
| Abdush Salam Pramanik | UGC                      | Dr. Bibaswan Dey         | Male          | 02.09.2019             |

**Details of PhD Students (Without Fellowship):**

| Name           | Supervisor's Name      | Gender | Date of Registration |
|----------------|------------------------|--------|----------------------|
| Koushik Sarkar | Prof. Manorajan Singha | Male   | 08.09.2016           |
| Kousik Das     | Prof. Manorajan Singha | Male   | 07.01.2016           |
| Arindam Paul   | Dr. Nita Tamang        | Male   | NA                   |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name                       | Details of the Seminars/Conferences  | Date                    |
|----------------------------|--|-------------------------|
| Dr. Dilip Chandra Pramanik | International Web-Conference on Complex Analysis and Differential Geometry: Revisiting, organised by SKBU, West Bengal   | 29-30.06.2020           |
| Dr. Dilip Chandra Pramanik | 3 <sup>rd</sup> International Conference on Mathematical Modeling, Applied Analysis and Computaton-2020, organised by JECRC University   | 07-09.08.2020           |
| Dr. Nita Tamang            | 14 <sup>th</sup> International Conference MSAST 2020   | 21-23.12.2020           |
| Dr. Paltu Sarkar           | Webinar on Algebraic structures in the crossroads of Mathematics, organised by Ramakrishna Mission Residential College, Narendrapur and Netaji Nagar Day College, Kolkata                | 28.08.2020              |
| Dr. Paltu Sarkar           | Online Workshop on Algebraic Number Theory, organised by Assam University  | 31.08.2020 – 05.09.2020 |
| Dr. Paltu Sarkar           | One-Day National Level Webinar on History of Mathematics, organised by Calcutta Mathematical Society   | 06.09.2020              |
| Dr. Paltu Sarkar           | Online Faculty Development Programme on Applied Mathematical Skills for Science and Engineering, organised by MAKAUT and Islamic University of Science and Technology, Jammu and Kashmir | 14-18.09.2020           |
| Dr. Paltu Sarkar           | Online Workshop on Numerical Linear Algebra, organised by Assam University   | 19-25.09.2020           |
| Dr. S. Biswas              | Online workshop on Numerical Linear Algebra, organised by Assam University   | 19-25.09.2020           |
| Dr. S. Biswas              | Webinar on “Srinivasa Ramanujan-a legend and a symbol”, organised by Ramakrishna Mission Residential College, Narendrapur  | 30.09.2020              |

| Name          | Details of the Seminars/Conferences  | Date       |
|---------------|--|------------|
| Dr. S. Biswas | Webinar on “Mathematical modelling of spread of Covid-19”, organised by Ramakrishna Mission Residential College, Narendrapur                                     | 21.09.2020 |
| Dr. S. Biswas | National webinar on “Recent Trends of Mathematics and Its Application in Real Life situation”, organised by Ramakrishna Mission Residential College, Narendrapur | 16.08.2020 |

### Publications:

| Name of the Author  | Details   | Year |
|---|---|------|
| <b>Sanjoy Ghosal,</b><br>Avishek Ghosh  | Rough weighted I-limit points and weighted I-cluster points in theta-metric space, <i>Mathematica Slovaca</i>   | 2020 |
| <b>Sanjoy Ghosal, M.</b><br>C. Listan-Garcia,<br>Manasi Mandal,<br>Mandobi Banerjee | Influence of theta-metric spaces on the Diameter of rough weighted I <sub>2</sub> -limit set, <i>Filomat</i>  | 2020 |
| <b>Dr. D C Pramanik</b>   | On the Growth of Solutions of Some Non-linear Complex Differential Equations, <i>Korean J. Math.</i> Vol. 28, No. 2   | 2020 |
| <b>Dr. D C Pramanik</b>   | Uniqueness of meromorphic functions sharing a set of roots of unity, <i>Journal of the Indian Math. Soc.</i> , Vol. 87, Nos. (3-4)                                    | 2020 |
| <b>Dr. D C Pramanik</b>   | Uniqueness of homogeneous differential polynomials of meromorphic functions concerning weakly weighted sharing, <i>Journal of Classical Analysis</i> , Vol. 16, No. 1 | 2020 |
| <b>Dr. D C Pramanik</b>   | Uniqueness of $p(f)$ and $P[f]$ concerning weakly weighted sharing, <i>General Mathematics</i> , Vol. 28, No. 1   | 2020 |
| <b>Dr. D C Pramanik</b>   | Uniqueness of Differential Polynomials of a Meromorphic Function Concerning Weighted Sharing, <i>The Mathematics Student</i> , Vol. 89, Nos. 3-4                      | 2020 |
| <b>Dr. D C Pramanik</b>   | Further study on solutions of some non-linear homogeneous differential equations in connection to Bruck conjecture, <i>Creat. Math. Inform.</i> , Vol. 29, No. 2      | 2020 |
| <b>Nita Tamang</b>  | A Simple Observation on Decomposition of Multiple Zeta Values, <i>Indian Journal of Pure and Applied Mathematics</i> , 51(4), 1269-1284                               | 2020 |
| Manasi Mandal,<br>Sampad Das, <b>Nita Tamang</b>                                    | Left Bi-quasi and Minimal Left Bi-quasi Ideals of Ternary Semiring, <i>South-east Asian Bulletin of Mathematics</i> , 45 , 217-226.                                   | 2021 |

| <b>Name of the Author</b>            | <b>Details</b>   | <b>Year</b> |
|--------------------------------------|--|-------------|
| <b>S. Biswas</b>                     | Rayleigh waves in a nonlocal thermoelastic layer lying over a nonlocal thermoelastic half-space, <i>Acta Mechanica</i> , 231(10), 4129-4144                                    | 2020        |
| <b>S. Biswas</b> and S. M. Abo-Dahab | Electro-magneto-thermoelastic interactions in initially stressed orthotropic medium with Green-Naghdi model type-III, <i>Mechanics Based Design of Structures and Machines</i> | 2020        |
| <b>S. Biswas</b>                     | Three-dimensional nonlocal thermoelasticity in orthotropic medium based on Eringen's nonlocal elasticity, <i>Waves in Random and Complex Media</i>                             | 2020        |
| A.S. Pramanik and <b>S. Biswas</b>   | Surface waves in nonlocal thermoelastic medium with state space approach, <i>Journal of Thermal Stresses</i> , 43(6), 667-686  | 2020        |
| <b>S. Biswas</b> and S. M. Abo-Dahab | Reflection of P waves in porous thermoelastic medium with three-phase-lag model, <i>Waves in Random and Complex Media</i>  | 2020        |
| <b>S. Biswas</b>                     | Rayleigh waves in a magneto-thermoelastic anisotropic half-space, <i>Journal of Thermal Stresses</i> , 44(2), 197-213  | 2020        |
| <b>S. Biswas</b>                     | Surface waves in porous nonlocal thermoelastic orthotropic medium, <i>Acta Mechanica</i> , 231(7), 2741-2760   | 2020        |
| <b>S. Biswas</b>                     | Surface waves in piezothermoelastic transversely isotropic layer lying over piezothermoelastic transversely isotropic half-space, <i>Acta Mechanica</i> , 232, 373-387         | 2020        |
| <b>S. Biswas</b>                     | Rayleigh waves in porous nonlocal orthotropic thermoelastic layer lying over porous nonlocal orthotropic thermoelastic half space, <i>Waves in Random and Complex Media</i>    | 2021        |
| A.S. Pramanik and <b>S. Biswas</b>   | Eigenvalue approach to hyperbolic thermoelastic problem in porous orthotropic medium with Green-Lindsay model, <i>Mechanics Based Design of Structures and Machines</i>        | 2020        |

#### **Miscellaneous:**

Dr. S. Biswas, Asst. Professor has received Best Research Award from Science Father. He has also received Best Researcher Award from Science Father.

## DEPARTMENT OF MICROBIOLOGY

### About the Department

The Department of Microbiology, NBU was established in 2005 as a self-financed Department with an aim to train the next generation of leaders in Microbiology. In 2008, the Department was shifted to new building with superior facilities. The Department was regularized by the Government of West Bengal in 2012.

The Department has modern research facility and infrastructure to support the teaching and research activities. The post graduates from this department get employed in various National/International academic, research and industrial organizations. The Department strives to spearhead research and educational programs in an effort to provide solutions to some of the current world's most pressing issues, such as alternative energy sources, remediation of industrial pollutions etc.

### Courses Offered:

- MSc in Microbiology
- M. Phil. in Microbiology
- Ph. D. in Microbiology

### Research Focus:

- Bioprocess technology
- Enzyme technology
- Food Microbiology
- Stress Biology
- Environmental Microbiology
- Molecular Biology

### Student Strength:

| Course | Year      | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|-----------|------|--------|-------|----|----|-------|-------|-----|
| M. Sc  | 2020 - 21 | 13   | 40     | 53    | 7  | 6  | 3     | 4     | 33  |

### Details of Course Completed by Students in 2020 - 21:

| Course | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|--------|-------|----|----|-------|-------|-----|
| M. Sc. | 7    | 20     | 27    | 3  | 4  | 0     | 3     | 17  |

**Faculty Details:**

| <b>Name</b>               | <b>Qualification</b>   | <b>Designation</b>            | <b>Email</b>              |
|---------------------------|------------------------|-------------------------------|---------------------------|
| Dr. Arindam Bhattacharjee | M. Sc., Ph. D.         | Head and Asst. Professor      | abmicrobio@nbu.ac.in      |
| Ms. KhusbooLepcha         | M. Sc.                 | Asst. Professor               | khusboolepcha88@nbu.ac.in |
| Dr. Sarita Kumari         | M. Sc., M. Phil, Ph.D. | Asst. Professor (Contractual) | saritamicro@nbu.ac.in     |
| Dr. Payel Sarkar          | M. Sc., Ph.D.          | Asst. Professor (Contractual) | payalsarkar@nbu.ac.in     |
| Dr. Shyama Prasad Saha    | M. Sc., Ph.D.          | Asst. Professor (Contractual) | shyamaprasad@nbu.ac.in    |

**Details of Non-Teaching Staff:**

| <b>Name</b>          | <b>Qualification</b> | <b>Designation</b>           |
|----------------------|----------------------|------------------------------|
| Mrs. Madhumita Ghosh | Higher Secondary     | Junior Superintendent        |
| Mr. Satya Ranjan Das | Higher Secondary     | Record Supplier              |
| MrSudipta Das        | B. Sc.               | Lab Technician (Contractual) |
| Mr. Subir Sarkar     | IX                   | Group D casual (Casual)      |

**Details of Research Scholars:**

| <b>Name</b>      | <b>Fellowship Status</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> |
|------------------|--------------------------|--------------------------|---------------|------------------------|
| Swarnab Sengupta | University Fellowship    | Dr. A. Bhattacharjee     | Male          | 01.06.2017             |
| Aditi Rai        | DST-Inspire              | Dr. A. Bhattacharjee     | Female        | 29.12.2014             |
| Rohan Nath       | SVMCM                    | Dr. A. Bhattacharjee     | Male          | 03.01.2019             |

**Details of PhD Students (Without Fellowship):**

| <b>Name</b>    | <b>Category</b> | <b>Gender</b> | <b>Date of admission in PhD Course Work</b> |
|----------------|-----------------|---------------|---|
| Pratima Sarkar | General         | Female        | 11.03.2021                                  |
| Madhushree Hui | General         | Female        | 11.03.2021                                  |



**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name                     | Details of the Seminars/Conferences  | Date          |
|--------------------------|--|---------------|
| Dr Arindam Bhattacharjee | Publishing ethics: the role of publishers, journals, researchers and institutions, organised by Springer Nature in collaboration of INFLIBNET Centre | 25.06.2020    |
|                          | Microbial Enzyme mediated Carbon Sequestration, organised by Muthayamal College of Arts & Science, Rasipuram   | 14.07.2020    |
|                          | Covid-19-The current Scenario, organised by St. Xavier's College, Kolkata  | 02-04.07.2020 |
| Dr. Shyama Prasad Saha   | Publishing Ethics:The role of publishers,Journals, Researchers and Institutions, organised by Springer Nature in collaboration of INFLIBNET Centre   | 25.06.2020    |
|                          | Covid-19, organised by University of Delhi, New Delhi  | 12.05.2020    |
|                          | Springer nature Experiments: How to find the protocols and methods you need for your research, organised by Database Group, Springer Nature          | 25.06.2020    |

**Publications:**

| Name of the Author                     | Details of Book/Journal/Volume   | Year      |
|--|--|-----------|
| Sengupta M, Rashid H, <b>Sarkar, P</b> | <i>International Journal of Biotechnology and Biomedical Sciences</i> , Vol: 6 | Jun 2020  |
| K K Singh, <b>S P Saha</b> et al       | <i>Functional Plant Biology</i>  | Oct 2020  |
| D Mazumdar, <b>S P Saha</b> , S Ghosh  | <i>Journal of Plant Nutrition</i>  | Feb 2021  |
| V Parmeshwar, <b>S P Saha</b> et al    | <i>Scientific Reports</i> , vol:11   | Jan 2021  |
| V Parmeshwar, <b>K Lepcha</b> et al    | <i>Nature Scientific Rreports</i> (article no:3032), IF 4.379                  | Feb 2021  |
| <b>K Lepcha</b> et al                  | Book: Physiological and Biotechnological Aspects of Extremophiles              | June 2020 |

**Research Projects Details:**

| Title of the Project                   | PI                   | Sponsored by            | Year of Sanction | Duration | Budget (Rs.) |
|--|----------------------|-------------------------|------------------|----------|--------------|
| Effect of GNSO on <i>S. cerevisiae</i> | Dr. A. Bhattacharjee | North Bengal University | 2020             | 1 year   | 1,50,000     |

| <b>Title of the Project</b>   | <b>PI</b>      | <b>Sponsored by</b>     | <b>Year of Sanction</b> | <b>Duration</b> | <b>Budget (Rs.)</b> |
|---|----------------|-------------------------|-------------------------|-----------------|---------------------|
| Studies on the cellulolytic and hemicellulolytic potential of microbial communities from goat rumen content | Khusboo Lepcha | North Bengal University | 2020                    | 1 year          | 1,50,000            |

## DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

### About the Department:

The Department of Pharmaceutical Technology, NBU has started post graduate course in Pharmacy with specialization in Pharmaceutics and Pharmacognosy and Ph.D. Program from 2019-20. The academic curricula and research programs have been designed with updated knowledge with the primary focus to basics and emerging fields of Pharmacy. Every year considerable numbers of students are qualifying in the GPAT examination and will get the opportunity to take admission in this Department through a specific admission process.

The Department aims to regularly organize national and international seminars, conferences, symposia and lectures in order to give a focus on the emerging fields of research to students and research scholars. The Department is well equipped with various new and modern instrumental facilities. Faculty members regularly publish their research findings in reputed national and international journals.

### Courses Offered:

- Master of Pharmacy (specialization in Pharmaceutics and Pharmacognosy)
- Ph. D. in Pharmaceutical Technology

### Research Focus:

- Pharmacognosy
- Natural Products
- Novel drug delivery systems
- Phytochemistry
- Natural product chemistry
- Herbal drugs

### Student Strength:

| Course   | Year      | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|----------|-----------|------|--------|-------|----|----|-------|-------|-----|
| M. Pharm | 2020 - 21 | 15   | 11     | 26    | 5  | 1  | 1     | 4     | 15  |

### Faculty Details:

| Name                | Qualification | Designation            | Email                      |
|---------------------|---------------|------------------------|----------------------------|
| Dr. Ranabir Sahu    | Ph.D          | Head & Asst. Professor | ranaju4u@yahoo.co.in       |
| Dr. Bapi Ray Sarkar | Ph.D          | Assoc. Professor       | mailmebrs@gmail.com        |
| Dr. Gouranga Nandi  | Ph.D          | Asst. Professor        | nandi_gouranga@yahoo.co.in |

| Name                    | Qualification | Designation     | Email  |
|-------------------------|---------------|-----------------|--|
| Dr. Prosanta Pal        | Ph.D          | Asst. Professor | prosanta_pal@rediffmail.com  |
| Dr. Koushik Sen Gupta   | Ph.D          | Asst. Professor | koushikhpi@gmail.com   |
| Dr. Tarun Kumar Dua     | Ph.D          | Asst. Professor | tarunkduaju@gmail.com  |
| Dr. Paramita Paul Dua   | Ph.D          | Asst. Professor | paramita37@gmail.com   |
| Dr. Amitava Roy         | Ph.D          | Asst. Professor | aroy206ju@gmail.com  |
| Dr. Dipika Mandal       | Ph.D          | Asst. Professor | <a href="mailto:dipikamandal@nbu.ac.in">dipikamandal@nbu.ac.in</a> |
| Mr. Partha Pratim Maiti | M. Pharm      | Asst. Professor | parthahpi@gmail.com  |

#### Details of Non-Teaching Staff:

| Name                        | Qualification           | Designation           |
|-----------------------------|-------------------------|-----------------------|
| Shri Kali Sankar Sinha Babu | B.SC, D. Pharm          | Laboratory Technician |
| Shri Malyaban Mitra         | M. Pharm                | Laboratory Technician |
| Shri Bivas Joardar          | D. Pharm, B. Sc, D.P.T. | Store Keeper          |
| Smt. Debashri Pal           | Master in Arts          | Jr. Asstt.-Cum-Typist |
| Shri Sanjay Kujur           | Madhyamik               | Peon                  |

#### Details of Project Scholars:

| Name      | Project  | Supervisor's Name | Gender | Date of Joining |
|-----------|--|-------------------|--------|-----------------|
| Priya Das | "In search of novel antidiabetic lead from <i>Asparagus racemosus</i> Willd. : A Sikkim and Darjeeling Himalayan regional Medicinal Plant" | Dr. Ranabir Sahu  | Female | 11.01.2021      |

#### Details of PhD Students (Without Fellowship):

| Name               | Supervisor's Name   | Gender | Admission in PhD Course Work |
|--------------------|---------------------|--------|------------------------------|
| Arnab Bagchi       | Dr. Bapi Ray Sarkar | Male   | 01.01.2020                   |
| Ashoke Mukherjee   | N.A.                | Male   | 02.01.2020                   |
| Chandrika Sharma   | Dr. Bapi Ray Sarkar | Female | 01.01.2020                   |
| Honey Jajo         | Dr. Ranabir Sahu    | Female | 02.01.2020                   |
| Jugal Sutradhar    | Dr. Bapi Ray Sarkar | Male   | 01.01.2020                   |
| ParthaPratimMahata | Dr. Gouranga Nandi  | Male   | 02.01.2020                   |
| Preksha Sharma     | Dr. Bapi Ray Sarkar | Female | 01.01.2020                   |

| Name              | Supervisor's Name   | Gender | Admission in PhD Course Work |
|-------------------|---------------------|--------|------------------------------|
| SiddheswarMaiti   | N.A.                | Male   | 01.01.2020                   |
| Sreejan Manna     | Dr. Gouranga Nandi  | Male   | 02.01.2020                   |
| Sudip Das         | Dr. Bapi Ray Sarkar | Male   | 02.01.2020                   |
| Sarbani Roy       | N.A.                | Female | 06.01.2020                   |
| Milan Kumar Maiti | Dr. Ranabir Sahu    | Male   | 06.01.2020                   |
| Angila Theengh    | Dr. Bapi Ray Sarkar | ST, F  | 19.02.2021                   |

#### Organized Seminars/Conferences/Webinar:

| Name of the Webinar                                     | Date                         | Number of Participants |
|---|------------------------------|------------------------|
| “IPR and Recent Advancement in Pharmaceutical Research” | 29 <sup>th</sup> August,2020 | Approx. 200            |

#### Publications:

| Name of the Author   | Details of Book/Journal/Volume   | Year |
|--|--|------|
| <b>Bapi Ray Sarkar</b>   |  |      |
| Bapi Ray Sarkar  | Bioremediation: A Green Approach to Prevent the Plastic Hazards Microbes, Book: <i>Environment and Human Welfare</i> , Nova Science Publishers, Page No- 185-213. [ISBN number: 978-1-53617-945-3]   | 2020 |
| Sharma A, Pal P, Sarkar B R, Mohanty JP, Bhutia S. Preparation | Standardisation and evaluation of hypoglycaemic effect of herbal formulation containing five ethnomedicinal plants in alloxan-induced hyperglycemic wistar rats. <i>Research Journal of Pharmacy and Technology</i> . 2020 Dec 1; 13(12):5987-92.                          | 2020 |
| <b>Dr. Gouranga Nandi</b>                                      |  |      |
| Smita Patra, Nripendra Nath Bala, Gouranga Nandi               | Synthesis, characterization and fabrication of sodium carboxymethyl-okra-gum-grafted-polymethacrylamide into sustained release tablet matrix. <i>International Journal of Biological Macromolecules</i> , 164 (2020) 3885 – 3900. (ISSN: 0141-8130) (Impact factor 6.953). | 2020 |
| Soma Das, Ananya Ghosh, Abhijit                                | Quality-by-Design approach for development of sustained-release multiple-unit beads of lamotrigine based on ion-cross-linked composite of pectin and okra mucilage: an in  | 2020 |

| Name of the Author   | Details of Book/Journal/Volume  | Year |
|--|---|------|
| Changder, Gouranga Nandi, L. K. Ghosh  | vitro appraisal. <i>International Journal of Biological Macromolecules</i> , (2020), 163, 842 - 853. (ISSN: 0141-8130) (Impact factor 6.953).   |      |
| Dixita Jain, Akshay Sodani, Swapnil Ray, Pranab Ghosh, Gouranga Nandi                      | Formulation of extended-release beads of lamotrigine based on alginate and <i>Cassia fistula</i> seed gum by QbD approach <i>Current Drug Delivery</i> , (2020) 17 (5) 422 – 437. (ISSN: <b>1875-5704 online</b> ) (Impact factor: 2.565), (2021) | 2020 |
| <b>Dr. Ranabir Sahu</b>  |   |      |
| A. Sethi, M. Sharaff, R. Sahu  | Deciphering common temporal transcriptional response during powdery mildew disease in plants using meta-analysis, <i>Plant Gene</i>   | 2021 |
| R. Sahu, P. Narayanaswamy, P. Kundu, A. Kumar  | Differential Response of Phytohormone Signalling Network Determines Nonhost Resistance in Rice during Wheat Stem Rust ( <i>Puccinia graminis</i> f. sp. <i>tritici</i> ) Colonization, <i>Plant Pathol.</i>                                       | 2021 |
| R. Sahu, P. Kundu, A. Sethi  | In vitro antioxidant activity and enzyme inhibition properties of wheat whole grain, bran and flour defatted with hexane and supercritical fluid extraction, <i>LWT-Food Science and Technology</i>   | 2021 |
| R. Sahu, S. Dewanjee   | Carotenoids as Antidiabetic Agents, Carotenoids: Structure and Function in the Human Body, <i>Springer Nature Switzerland</i> 2021, pp. 513-532   | 2021 |
| P. Kundu, R. Sahu  | GIGANTEA confers susceptibility to plants during spot blotch attack by regulating salicylic acid signalling pathway, <i>Plant Physiol. Biochem</i>  | 2021 |
| M. Gangopadhyay, A.K. Das, R. Sahu, et. al.  | Evaluation of growth response for mass production and accumulation of 2-hydroxy-4-methoxybenzaldehyde in endangered <i>Hemidesmus indicus</i> by an aeroponic system, <i>Industrial Crops and Products</i> 172 114072                             | 2021 |
| G.J. Ashraf, P. Das, T.K. Dua, P. Paul, G. Nandi, R. Sahu                                  | High-performance thin-layer chromatography based approach for bioassay and ATR–FTIR spectroscopy for the evaluation of antioxidant compounds from <i>Asparagus racemosus</i> Willd. aerial parts, <i>Biomed. Chromatogr.</i> 35(12)e5230          | 2021 |
| S. Dewanjee, J. Vallamkondu, P.C. Chakraborty, R. Kalra, M. Gangopadhyay, R. Sahu, et. al. | The Emerging role of HDACs: Pathology and Therapeutic targets in Diabetes Mellitus  | 2021 |

**Research Projects Details:**

| <b>Title of the Project</b>   | <b>PI</b>           |
|---|---------------------|
| Preliminary Phytochemical screening and Evaluation of hepatoprotective activity of some unexplored medicinal plants found in North Eastern Himalayan region | Dr. Bapi Ray Sarkar |
| Pharmacognostical Study and Preliminary Phytochemicals Screening of <i>Bulbophyllum cassipes</i> . Region   | Dr. Bapi Ray Sarkar |
| Evaluation of pharmacognostical parameters, phytochemical characterization and pharmacological activities of medicinal plant found in North East India      | Dr. Ranabir Sahu    |
| Screening of some herbal hydrocolloids from North-Eastern Himalayas to fabricate them as mucoadhesive nasal gels  | Dr. Gouranga Nandi  |

## DEPARTMENT OF PHYSICS

### About the Department:

Department of Physics is one of those Departments with which North Bengal University started its journey in the year 1962. A Credit Based Choice System (CBCS) is presently followed in the M.Sc. level, with three different areas of specialization namely, Condensed Matter Physics, Electronics, and Nuclear and Particle Physics. The faculty members of the Department are involved in intra and inter-university national and international collaborations of scientific research.

The Department has conducted many notable research projects sponsored by the DST, DAE and UGC. In the year 2003, the Department received financial support under the FIST program from the DST, Govt. of India. The Department houses one IUCAA Resource Centre, a Data Centre for Observational Astronomy, six teaching laboratories, several research laboratories and one Departmental library. From time to time the Department organizes Seminars, Symposia, Conferences, Schools, Refresher Courses, and Outreach Programs.

### Courses Offered:

- M. Sc.
- M. Phil.
- Ph. D.

### Research Focus:

- Liquid Crystal
- Astrophysics
- Cosmology and Cosmic-ray
- High-energy Heavy-ion Interaction
- Soft Condensed Matter
- Solid State Devices

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| M.Sc   | 2021 | 31   | 14     | 45    | 12 | 3  | 4     | 7     | 19  |
|        | 2020 | 22   | 18     | 40    | 9  | 4  | 4     | 6     | 17  |

### Faculty Details:

| Name                      | Qualification  | Designation | Email                   |
|---------------------------|----------------|-------------|-------------------------|
| Dr. Pradip Kumar Mandal   | M.Sc., Ph.D.   | Professor   | mandalpk.phys@nbu.ac.in |
| Dr. Amitabha Mukhopadhyay | M.Sc., Ph.D.   | Professor   | amphys@nbu.ac.in        |
| Dr. Malay Kumar Das       | M. Sc., Ph. D. | Professor   | mkdnbu@nbu.ac.in        |
| Dr. Bikash Chandra Paul   | M. Sc., Ph. D. | Professor   | bcpaul@nbu.ac.in        |
| Dr. Sripada Haldar        | M. Sc., Ph. D. | Professor   | nbushaldar@nbu.ac.in    |



| Name                  | Qualification  | Designation     | Email                  |
|-----------------------|----------------|-----------------|------------------------|
| Dr. Provash Mali      | M. Sc., Ph. D. | Assc. Professor | provashmali@nbu.ac.in  |
| Dr. Suman Chatterjee  | Ph.D. (Engg.)  | Assc. Professor | suman@nbu.ac.in        |
| Dr. R. K. Dey         | M. Sc., Ph. D. | Assc. Professor | rkdey2007phy@nbu.ac.in |
| Dr. Tutul Biswas      | M. Sc., Ph. D. | Asst. Professor | tbiswas@nbu.ac.in      |
| Mr. Lakpa Tamang      | M.Sc.          | Asst. Professor | lakpatamang@nbu.ac.in  |
| Dr. Prakriti Adhikary | M.Sc., Ph.D.   | Asst. Professor | prakriti@nbu.ac.in     |

#### Details of Non-Teaching Staff:

| Name                 | Qualification                                  | Designation                |
|----------------------|--|----------------------------|
| Mr. Sudip Saha       | B.Sc.  | Jr. Super                  |
| Mr. SankhaSubhra Roy | B.Sc., Dip. in Elect. Engg.                    | Technical Assistant Gr. I  |
| Mr. Subrata Hazra    | B.Sc. Physics (Hons), Computer Hardware Course | Technical Assistant Gr. II |
| Mr. Rajesh Pradhan   | B.Sc.  | Technical Assistant Gr. II |
| Mr. Ayub Ahamad      | H.S., Dip. in Elect. Engg.                     | Technical Assistant Gr. II |
| Mr. Amitava Roy      | B.Sc.  | Technical Assistant Gr. II |
| Mr. Lubai Hansda     | Secondary pass, ITI                            | Sr. Peon                   |

#### Details of Research Scholars:

| Name                | Fellowship Status      | Supervisor's Name     | Gender | Date of Joining |
|---------------------|------------------------|-----------------------|--------|-----------------|
| Priti Sundar Barman | SVMCM                  | Dr. P. Adhikary       | Male   | 13.03.2021      |
| Ruchi Tamang        | CSIR                   | Prof. B. C. Paul      | Female | 05.01.2021      |
| Manoj Ghising       | UGC-MANF               | Prof. B. C. Paul      | Male   | 11.03.2021      |
| Anirban Chanda      | State Fellowship (SRF) | Prof. B.C.Paul        | Male   | 08.6.2017       |
| Joy Sarkar          | DST- INSPIRE (JRF)     | Dr. S. Chatterjee     | Male   | 03.01.2019      |
| Pratik Debnath      | UGC NET (JRF)          | Dr. S. Chatterjee     | Male   | 06.01.2020      |
| Priyanta Barman     | CSIR- UGC NET (SRF)    | Prof. M. K. Das       | Female | 02.01.2019      |
| Avijit Talukdar     | DST- INSPIRE (JRF)     | Dr. S. Chatterjee     | Male   | 01.01.2020      |
| Joydeep Thakur      | State Fellowship (SRF) | Prof. A. Mukhopadhyay | Male   | 02.01.2019      |
| Apsari Parvin       | NFOBC (JRF)            | Prof. M. K. Das       | Female | 01.01.2020      |
| Sagar Dey           | UGC NET (SRF)          | Prof. B.C. Paul       | Male   | 17.07.2017      |

**Details of Project Scholar**

| Name         | Projects       | Supervisor's Name     | Gender | Date of Joining |
|--------------|----------------|-----------------------|--------|-----------------|
| Smriti Mitra | Project Fellow | Prof. Malay Kumar Das | Female | 28.6.2018       |

**Details of PhD Students (Without Fellowship):**

| Name                | Supervisor's Name  | Gender | Date of Registration |
|---------------------|--------------------|--------|----------------------|
| Shib Shankar Biswas | Dr. T Biswas       | Male   | Not Yet Registered   |
| Animesh Basak       | Dr. R K Dey        | Male   | 18.09.2017           |
| Somnath Ghosh       | Dr. P Mali         | Male   | 09.12.2020           |
| Sabyasachi Ray      | Dr. R K Dey        | Male   | 06.01.2022           |
| Binay Rai           | Prof. B.C.Paul     | Male   | 13.03.2019           |
| Rajat Biswas        | Dr. S Chatterjee   | Male   | 29.12.2019           |
| Tanmay Chaki        | Prof. P K Mandal   | Male   | 17.07.2017           |
| Chinmay Roy         | Prof. S Chatterjee | Male   | Not Yet Registered   |
| Biplab Kumar Singh  | Prof. S. Halдар    | Male   | Not Yet Registered   |
| Nikita Chhetri      | Prof. S. Halдар    | Female | 18.09.2017           |
| Kishor Choudhury    | Dr. R. K. Dey      | Male   | 07.01.2022           |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name              | Details of the Seminars/Conferences  | Date          | Title of the Paper Presented   |
|-------------------|--|---------------|--|
| Prakriti Adhikary | Environmental Determinism, Diverse Pollutions, Sources, and Controlling Management Through Sciences And Humanities, organised by Alipurduar University | 22.03.2021    | Design and Development of Self-powered Nanogenerators for Environmental Energy Harvesting.   |
| M. K. Das         | 27th National Conference on Liquid Crystals, organised by Amity University, Uttar Pradesh  | 21-23.12.2020 | High-resolution specific heat capacity and birefringence measurements a bolaamphiphilic liquid crystal exhibiting lamellar–isotropic, lamellar–nematic and lamellar smectic phases |

| Name            | Details of the Seminars/Conferences  | Date                          | Title of the Paper Presented |
|-----------------|--|-------------------------------|------------------------------|
| Bikash Ch. Paul | Physics of the Early Universe - An online Precursor, organised by International Centre for Theoretical Sciences                | 31.08.2020<br>–<br>03.09.2020 | Participated                 |
|                 | Scientific Workshop “Astrophysics with CubeSats”, organised by Hermes Science Team   | 18-<br>19.11.2020             | Participated                 |
|                 | Island Hopping 2020 from Wormholes to Averages at CERN Switzerland   | 16-<br>20.11.2020             | Participated                 |
|                 | International Webinar on Recent Advances in Science and Technology, organised by Indira Gandhi Institute of Technology, Odisha | 06-<br>08.11.2020             | Participated                 |
|                 | Virtual Meeting on Compact Stars and QCD-2020, organised by International Centre for Theoretical Sciences                      | 17-<br>21.08.2020             | Participated                 |

### Publications:

| Name of the Author   | Details of Book/Journal/Volume   | Year |
|--|--|------|
| R. K. Dey, S. Ray, S. Dam                                    | Searching for correlations of geomagnetic activities with high-energy EAS muons, <i>Euro. Phys. J. Plus</i> 135: 445 1   | 2020 |
| R. K. Dey  | Local shower age and segmented slope parameters of lateral density distributions of cosmic ray shower particles, <i>J. Phys. Conf. Ser.</i> , 012072 1               | 2020 |
| A. Debnath, D. Goswami, B. K. Singh, S. Halder, P. K. Mandal | Effect of $\gamma$ -irradiation on the display parameters of a room temperature ferroelectric liquid crystal mixture, <i>Liq. Crystal</i> 48, 935                    | 2020 |
| S. K. Manna, A. Mukhopadhyay, P. Mali                        | Forward-backward multiplicity correlation and event-by-event multiplicity fluctuation in nucleus-nucleus collisions at 200A GeV, <i>Int. J. Mod. Phys. E</i> 2150021 | 2021 |

| Name of the Author  | Details of Book/Journal/Volume   | Year |
|---|--|------|
| S. Das, B. C. Paul, R. Sharma                                   | Gravitational collapse of Anisotropic star, <i>Indian Journal of Physics</i> (2020) INJP-D-19-01327  | 2020 |
| S. Dey, B. C. Paul  | Higher Dimensional Charged Compact Objects in Finch-Skea Geometry, <i>Classical and Quantum Gravity</i> 37, 075017   | 2020 |
| P. S. Debnath, B. C. Paul                                       | Observational constraints of emergent universe in f(R, T) gravity with bulk viscosity. <i>Int. Journal of Geometric Methods in Mod. Phys.</i> , 17, 2050102                              | 2020 |
| B. C. Paul  | Existence of Traversable Wormholes with Modified Gravity and Non-linear Equation of State, <i>Class. Quantum Grav.</i> 38 145022   | 2021 |
| S. Das, B. C. Paul, R. Sharma                                   | Gravitational collapse of Anisotropic star, <i>Indian Journal of Physics</i> 95 (12), 2873-2883  | 2021 |
| S. Dey, A. Chanda, B. C. Paul                                   | Compact objects in f(R, T) gravity with Finch-Skea geometry, <i>Euro. Phys. J Plus</i> , 136, 228  | 2021 |
| P. S. Debnath and B. C. Paul                                    | Bouncing scenario with causal cosmology, <i>Astrophysics and Space Science</i> , 366, 32   | 2021 |
| P. Pradhan, B. Paul, E. Bozzo, C. Maitra, B. C. Paul            | Comprehensive broadband study of accreting neutron stars with Suzaku, Is there a bi-modality in the X-ray spectrum? <i>Mon. Notice Royal Astronomical Society (MNRAS)</i> 502, 1163-1190 | 2021 |
| Chanda, Sagar Dey, Bikash Chandra Paul                          | Morris-Thorne Wormholes in the modified f(R, T), <i>General Relativity and Gravitation</i> , 53, 78  | 2021 |
| S. Ghosh, S. Dey, A. Das, A. Chanda, B. C. Paul                 | Study of Gravastars in Rastall gravity, <i>JCAP</i> 07, 004  | 2021 |
| Binay Rai and B. C. Paul,                                       | Timing and spectral properties of Be/Xray pulsar 4U 1901+03 during 2019 outburst, <i>Astrophysics and Space Sci.</i> , 366, 84   | 2021 |
| B. C. Paul  | Existence of traversable wormholes with modified gravity and non-linear equation of state, <i>Class. Quantum Grav.</i> 38 145022   | 2021 |
| P. S. Debnath and B. C. Paul                                    | Cosmological models in $f(R^2)$ gravity with hybrid expansion law, <i>International Journal of Geometric Methods in Modern Physics</i> . 18, No. 09, 2150143                             | 2021 |
| Dibyendu Panigrahi, Bikash Chandra Paul, Sujit Kumar Chatterjee | Accelerating Universe in Higher Dimensional Space Time -an alternative approach, <i>Eur. Phys. J. Plus</i> 136:771   | 2021 |

| Name of the Author   | Details of Book/Journal/Volume   | Year |
|--|--|------|
| Bikash Chandra Paul  | Emergent Universe in $D \geq 4$ dimensions with Dynamical Wormholes, <i>Euro Phys. J C</i> , 81, 776   | 2021 |
| B. C. Paul   | Traversable wormholes in the galactic halo with MOND and non-linear equation of state, <i>Classical and Quantum Gravity</i> 38 (14), 145022                              | 2021 |
| A. Saha, S. Ghose, A. Chanda, B. C. Paul   | Renyi holographic dark energy in higher dimension Cosmology, <i>Annals of Physics</i> , 426, 168403  | 2021 |
| Smriti Mitra, Anish Chakraborty and Malay Kumar Das  | Calorimetric study of critical behaviour near the smectic A to nematic phase transition in a polar-polar binary system, <i>Phase Transitions</i> , 93, 1006              | 2020 |
| Shantiram Nepal, Banani Das, Malay Kumar Das, Katarzyna Strójwās, Magdalena Urbańska                 | Dielectric Spectroscopy and Electrical Conductivity Measurements on High-Tilted Antiferroelectric Materials, <i>Phase Transitions</i> , 93, 1                            | 2020 |
| S. Nepal, S. Mondal, A. Sinha, B. Das, M. K. Das, E. Dmochowska, J. Herman, M. Czerwiński,           | Fast switching behaviour and dielectric parameters of two chiral ferroelectric mesogens, <i>Liquid Crystals</i> , 47, 1464   | 2020 |
| S. Nepal, B. Das, M. K. Das, M. Das Sarkar and R. Dabrowski  | Dielectric Spectroscopy and Electrical Conductivity Measurements of a Series of Orthoconic Antiferroelectric Liquid Crystalline Esters, <i>Ferroelectrics</i> , 570, 100 | 2021 |
| S. Gupta, T. Choudhury, M. K. Das, D. R. Lisgarten, J. K. Cockcroft, Rex A. Palmer & J. N. Lisgarten | X-ray Structure at 150 K of the Polar Alkyl Mesogenic Compound 7CBB: 4-Cyanobiphenyl-4'-heptylbiphenyl Carboxylate, <i>Journal of Chemical Crystallography</i> , 51, 71  | 2021 |

#### Research Projects Details:

| Title of the Project   | PI         | Sponsored by |
|--|------------|--------------|
| Searching for cosmic ray sources through the measurement of TeV-PeV neutrinos and/or gamma ray fluxes. | R. K. Dey  | NBU          |
| A study of Astrophysical objects in modified Gravity   | B. C. Paul | NBU          |
| Theoretical and Observational Aspects of Compact Objects (17 Nov. 2017- Dec 31, 2020)                  | B. C. Paul | DST          |

| <b>Title of the Project</b>   | <b>PI</b> | <b>Sponsored by</b>                        |
|---|-----------|--|
| Wave packet dynamics in driven Dirac systems  | L. Tamang | NBU  |
| Investigations on the Critical Behavior at the Smectic-A-to-Smectic-C and Smectic A-Smectic C* Phase Transitions in liquid crystals by Synchrotron Radiation                              | M. K. Das | UGC-DAE Consortium for Scientific Research |
| Calorimetric and optical studies on the critical behavior at the nematic to twist bent nematic phase transition in liquid crystals from high-resolution optical and calorimetric studies. | M. K. Das | NBU  |

**Awards Received:**

Prof B C Paul has received the following awards/recognitions –

- IUCAA Associateship (Extension) (2021-2024)
- Fellow of Royal Astronomical Society (FRAS) London, UK on October 09, 2020
- Member of International Astronomical Union (IAU) Paris, June 10, 2020

## DEPARTMENT OF TEA SCIENCE

### About the Department:

Department of Tea Science, University of North Bengal is a unique Department of its kind. The Department was initiated in the year 1995 to meet the long felt demand of well trained youngsters in Tea industry to serve in the Managerial cadre. The primary focus of the Department is to educate students to strengthen the backbone of the Tea Industries and to add performance for the overall growth of them in this northern part of West Bengal and other tea growing parts of the country. The course curriculum and research programmes have been introduced in an updated version of Tea Science to meet the present needs.

In 2012-13, the Department has introduced M. Sc. course in Tea Science in order to educate students for building their career in higher education and tea industry. Apart from highly experienced teachers, the Department has well equipped laboratories to train the students to handle the activities of tea industries. Over the times the Department has built up a strong University-Industry partnership and many alumins of this Department are well established in almost all multinational tea companies having their plantations in India.

Apart from regular teaching activities, Department of Tea Science has a Soil Testing Laboratory approved by the Tea Board of India. The laboratory is equipped with instruments for quantitative tests for macro and micronutrients. This laboratory serves the need of soil testing for tea gardens of West Bengal, Bihar, Assam and Sikkim and generates a good amount of revenue for the University.

### Courses Offered:

- Sc. in Tea Science
- M. Sc. in Tea Science
- PG Diploma in Tea Management
- M. Phil.
- Ph. D.

### Research Focus:

- Ethnobotany
- Environmental biology
- Tissue culture
- Biomolecules and soil microbiology
- Phytochemistry
- Metabolomics

### Student Strength:

| Course           | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|------------------|------|--------|-------|----|----|-------|-------|-----|
| M.Sc Sem-I       | 7    | 6      | 13    | 3  | -  | 2     | 2     | 6   |
| M. Sc. Sem - III | 1    | 3      | 4     | -  | -  | 1     | -     | 3   |

| Course | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|--------|-------|----|----|-------|-------|-----|
| PGDTM  | 24   | 1      | 25    | 5  | 3  | -     | 4     | 13  |

#### Faculty Details:

| Name                   | Qualification  | Designation     | Email                   |
|------------------------|----------------|-----------------|-------------------------|
| Dr. Chandra Ghosh      | M. Sc., Ph. D. | Assc. Professor | chandraghoh19@nbu.ac.in |
| Dr. Malay Bhattacharya | M. Sc., Ph. D. | Assc. Professor | malayts@nbu.ac.in       |
| Dr. Sonali Ray         | M. Sc., Ph. D. | Assc. Professor | sonaliray@nbu.ac.in     |

#### Details of Non-Teaching Staff:

| Name                      | Qualification | Designation      |
|---------------------------|---------------|------------------|
| Mr. Nripendra Nath Biswas | M. A.         | Office Assistant |
| Mr. Mainak Mukherjee      | M. Sc.        | Soil Analyst     |
| Mr. Subash Singh          | M.P.          | Peon             |
| Mrs. Kalpana Subba        | VIII          | Sr. Peon         |

#### Details of Research Scholars:

| Name         | Fellowship Status | Supervisor's Name | Gender | Date of Joining |
|--------------|-------------------|-------------------|--------|-----------------|
| Priyanka Das | UGC-JRF           | Dr. Chandra Ghosh | Female | 21/07/2019      |
| Dwaipee De   | UGC-JRF           | Dr. Sonali Ray    | Female | 25/07/2019      |

#### Details of PhD Students (Without Fellowship):

| Name                  | Supervisor Name        | Gender | Date of Admission in Ph. D. Course Work |
|-----------------------|------------------------|--------|---|
| Arindam Poddar        | Dr. Chandra Ghosh      | Male   | 01.01.2020                              |
| Dipannita Debnath     |                        | Female | 01.01.2020                              |
| Asish Kumar Roy       |                        | Male   | 01.01.2020                              |
| Soumita Bhattacharjee |                        | Female | 03.01.2019                              |
| Sandipan Ghosh        |                        | Male   | 01.01.2020                              |
| Sumedha Saha          | Dr. Malay Bhattacharya | Female | 02.01.2019                              |
| Sahadeb Sarkar        |                        | Male   | 02.01.2019                              |
| Sukanya Acharyya      |                        | Female | 01.01.2020                              |
| Soumya Majumder       |                        | Male   | 01.01.2020                              |
| Arindam Ghosh         |                        | Male   | 01.01.2020                              |
| Nitu Sinha            | Dr. Sonali Ray         | Female | 01.01.2020                              |



**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>            | <b>Details of the Seminars/Conferences</b>   | <b>Date</b>                   | <b>Title of the paper presented</b>  |
|------------------------|--|-------------------------------|--|
| Dr. Malay Bhattacharya | International Conference on Dendroecology, Forest Management and Reforestation: theoretical and applied aspects, organised by UFA Institute of Biological Sciences, Russia | 2020                          | Phosphate soluble microorganism consortium of virgin Tiger hill forest soil shows high level tolerance to pesticide, antibiotic, antifungal and heavy metals |
| Dr. Sonali Ray         | National Virtual Conference on Genomics to Phenomics - A New Horizon in Plant Science Research, organised by University of Calcutta  | 28.02.2021<br>–<br>01.03.2021 | Detection of Pesticide treated tea samples using carbon nanoparticles  |
|                        | National Virtual Conference on Genomics to Phenomics - A New Horizon in Plant Science Research, organised by University of Calcutta  | 28.02.2021<br>–<br>01.03.2021 | Metabolite profiling of the affected and unaffected tea leaves by the common pest of Darjeeling  |
|                        | National Webinar on Recent trends in research on food, nutrition and health, organised by NBU  | 19.03.2021                    | Germination of Camellia sinensis var. sinensis (TS569).  |

**Details of Seminar/Conferences /Webinar Attended by Students:**

| <b>Name</b>       | <b>Details of the Seminars/Conferences</b>  | <b>Date</b>                   | <b>Title of the Paper Presented</b>   |
|-------------------|---|-------------------------------|---|
| Nitu Sinha        | National Virtual Conference on Genomics to Phenomics: A New Horizon in Plant Science Research, organized by University of Calcutta            | 28.02.2021<br>–<br>01.03.2021 | Detection of Pesticide treated tea samples using carbon nanoparticles                           |
| Himashree Chettri | Conference: National Virtual Conference on Genomics to Phenomics A New Horizon in Plant Science Research, organized by University of Calcutta | 28.02.2021<br>–<br>01.03.2021 | Metabolite profiling of the affected and unaffected tea leaves by the common pest of Darjeeling |
| Himashree Chettri | National Webinar on Recent trends in research on food, nutrition and health, organized by Dept. of Food Technology, NBU                       | 19.03.2021                    | Germination of Camellia sinensis var. sinensis (TS569)  |

| Name         | Details of the Seminars/Conferences   | Date | Title of the Paper Presented   |
|--------------|---|------|--|
| Sumedha Saha | International Scientific Conference on Dendroecology, Forest Management and Reforestation: theoretical and applied aspects, organized by UFA Institute of Biological Sciences, Russia | 2020 | Phosphate soluble microorganism consortium of virgin Tiger hill forest soil shows high level tolerance to pesticide, antibiotic, antifungal and heavy metals |

### Publications:

| Name of the Author  | Details of Book/Journal/Volume  | Year |
|---|---|------|
| <b>Dr. Chandra Ghosh</b>  |   |      |
| Chandra Ghosh, Sumita Ghatak, Kishor Biswas, A.P. Das                                 | <i>Trees, Forests and People</i> (2021):100061/10   | 2020 |
| Biswas, K., Ghosh, C. and Das, A. P.  | <i>Plant archives</i> 20(2)/ 4833-4844  | 2020 |
| Ghosh, C.; Sarkar S. and Das, A.P.  | <i>Research Journal of Agricultural Sciences /</i> 11(4) / 860-870/                       | 2020 |
| Ghosh, C.; Mukherjee, M. and Biswas, K.   | <i>International Journal of Advanced Research in Biological Sciences /</i> 7(6) / 141-150 | 2020 |
| Ghosh, C.; Debnath D. and Das, A.P.   | <i>International Journal of Advanced Research [ISSN: 2320-5407]/</i> 8(6)/ 831-845        | 2020 |
| Das, P.; Ghosh, C. and Das, A. P.   | <i>Pleione [ISSN 0973-9467]/</i> 14(1)/ 57 - 70   | 2020 |
| <b>Dr. Malay Bhattacharya</b>   |   |      |
| S Chakraborty, S Majumder, A Ghosh, S Saha and M Bhattacharya*                        | <i>Bulletin of the National Research Centre/</i> 45:48                                    | 2021 |
| S Majumder, A Ghosh, S Chakraborty and M Bhattacharya*                                | <i>Int. J. Food Ferment. Technol./</i> 10(1): 21-26                                       | 2020 |
| M Mukherjee, S Chakraborty, S Sarkar, S Saha, S Majumder, A Ghosh and M Bhattacharya* | <i>Current Agriculture Research Journal/</i> 8(3) 239-246                                 | 2020 |
| S Saha, S Chakraborty, S Acharyya, S Sarkar, S Majumder, A Ghosh, M Bhattacharya*     | <i>Ecobiotech/</i> 3(4) 578-588   | 2020 |
| S Majumder, S Sarkar, A Ghosh, S Acharyya, S Saha, S Chakraborty & M Bhattacharya*    | <i>Natural Product Research/</i> 36:8/ 2191-2195/ IF- 2.488                               | 2020 |

| <b>Name of the Author</b>  | <b>Details of Book/Journal/Volume</b>                           | <b>Year</b> |
|--|---|-------------|
| S Majumder, A Ghosh, S Chakraborty and M Bhattacharya*   | <i>International Journal of Mosquito Research / 7(6): 09-12</i> | 2020        |
| A K Das, A Ghosh, S Majumder, S Saha, S Acharyya, S Sarkar, S Chakraborty, M Mukherjee and M Bhattacharya* | <i>Journal of Pharmacognosy and Phytochemistry / 2020; 9(5)</i> | 2020        |
| A Ghosh, S Majumder, S Saha and M Bhattacharya*  | <i>Research in Plant Biology/ 10: 15-21</i>                     | 2020        |
| S Majumder, A Ghosh and M Bhattacharya*  | <i>Bulletin of the National Research Centre/ 44:141</i>         | 2020        |
| <b>Dr. Sonali Roy</b>  |   |             |
| Sonali Ray, Jhelam Chatterjee, Arindam Ghosh, Susmita Das  | <i>Cogent Food &amp; Agriculture, 7:1/ IF- 2.161</i>            | 2021        |

#### **Research Projects Details:**

| <b>Title of the Project</b>  | <b>PI</b>         | <b>Sponsored by</b>        | <b>Year</b> | <b>Duration</b> | <b>Budget (Rs.)</b> |
|--|-------------------|----------------------------|-------------|-----------------|---------------------|
| Germplasm characterization of selective Tea cultivars by using morphological and anatomical characters for the Tea improvement program in North Bengal | Dr. Chandra Ghosh | University of North Bengal | 2020        | 1 year          | 1,50,000            |

#### **Students Placement Details:**

| <b>Name of the Students</b> | <b>Name of the Employer</b>               |
|-----------------------------|---|
| Dipankar Saha               | Batali T.E. MLD Group Dalmial Tea Company |
| Sidhartha Kumar Mahato      | Sonali Tea Estate                         |
| Pradip Roy                  | Sonali Tea Estate                         |
| Bipraj Chhetri              | Aambari Tea Estate, Woodbrian Tea company |

## DEPARTMENT OF ZOOLOGY

### About the Department:

The Department of Zoology, University of North Bengal was established in 1984. The Department has earned high accolades with the awards of DST-FIST and UGC-SAP supports apart from independent research projects sponsored by almost all funding of authorities of Government of India. The Department has identified itself in the specialized fields of (i) Insect pest management including resistance status of tea pests and bio pesticide development (ii) Ecology and impact of pollutants/pesticides on aquatic biota including fish fauna (iii) Molecular cell biology and genetics in study of human health at chromosomal and DNA levels (iv) Studies on fish disease mainly EUS (v) HLA and Tumour biology (vi) Immunological study & status of tea workers and population dependent on tea industry and so on.

The Department has produced more than sixty Ph.D. scholars; most of them have been placed in responsible positions in teaching, research, corporate and governmental services. The faculty members have been honoured by various awards such as FNA Sc, FZSEI, FZS (Calcutta), DBT National Associateships, Overseas Associateship, INSA Exchange Collaborateship, State honours for book writing etc. Scientific contributions of the faculty members in terms of project investigation and publication have attained an enviable position. Central and State funded projects have been bagged by the Department from various authorities, such as UGC, CSIR, DST, DBT, DoEn & F, NTRF, ICMS, State DST and State Department of Fisheries. The Department has published large number of papers in reputed foreign as well as national journal.

### Courses Offered:

- M. Sc.
- M. Phil.
- Ph. D.

### Research Focus:

- Biopesticide Development
- Evolutionary Cytogenetics
- Molecular Virology
- Vector Biology
- Genetic Diversity
- Ecotoxicology

### Student Strength:

| Course       | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------------|------|--------|-------|----|----|-------|-------|-----|
| M.Sc Sem-III | 21   | 19     | 40    | 10 | 02 | 02    | 06    | 20  |
| M.Sc Sem-I   | 11   | 28     | 39    | 10 | 03 | 04    | 07    | 15  |

**Faculty Details:**

| Name                     | Qualification | Designation     | Email                     |
|--------------------------|---------------|-----------------|---------------------------|
| Dr. Soumen Bhattacharjee | M.Sc., Ph.D.  | Professor       | soumenb@nbu.ac.in         |
| Dr. Min Bahadur          | M.Sc., Ph.D.  | Professor       | mbahadur59@nbu.ac.in      |
| Dr. Dhiraj Saha          | M.Sc., Ph.D.  | Asst. Professor | dhirajsaha@nbu.ac.in      |
| Dr. Tilak Saha           | M.Sc., Ph.D.  | Asst. Professor | tilaksaha@nbu.ac.in       |
| Dr. Sourav Mukherjee     | M.Sc., Ph.D.  | Asst. Professor | sourav16@nbu.ac.in        |
| Dr. Ritwik Mondal        | M.Sc., Ph.D.  | Asst. Professor | ritwikm.zoology@nbu.ac.in |
| Dr. Arpan Kr. Maiti      | M.Sc., Ph.D.  | Asst. Professor | arpankrmaiti@nbu.ac.in    |

**Details of Non-Teaching Staff:**

| Name                    | Qualification      | Designation         |
|-------------------------|--------------------|---------------------|
| Mr. Subrata Ghosh       | B. Com             | Jr. Supdt.          |
| Mr. Samiran Ch. Debnath | Madhyamik Appeared | Lab. Attendant G-II |

**Details of Research Scholars:**

| Name                | Fellowship Status | Supervisor's Name     | Gender | Date of Joining |
|---------------------|-------------------|-----------------------|--------|-----------------|
| Sutanuka Chattaraj  | None              | Prof. S Bhattacharjee | Female | 19.09.2011      |
| Uttara Dey Bhowmick | None              | Prof. S Bhattacharjee | Female | 30.05.2014      |
| Subhashis Paul      | None              | Prof. S Bhattacharjee | Male   | 25.03.2013      |
| Tanmoy Dutta        | None              | Prof. S Bhattacharjee | Male   | 25.03.2013      |
| Debabrata Moidak    | NBU               | Prof. S Bhattacharjee | Male   | 23.07.2018.     |
| Sudipta Kumar Roy   | CSIR              | Prof. S Bhattacharjee | Male   | 16.07.2019      |
| Mr. Sourav Sarkar   | CSIR              | Prof. S Bhattacharjee | Male   | 12.02.2020      |
| Amlan Jyoti Ghosh   | CSIR              | Dr. Tilak Saha        | Male   | 04.09.2019      |
| Rejuan Islam        | UGC               | Dr. Tilak Saha        | Male   | 02.04.2019      |
| Farha Yasmin        | UGC               | Dr. S Mukherjee       | Female | 01.08.2019      |
| Sona Sutradhar      | UGC               | Dr. S Mukherjee       | Male   | 24.12.2019.     |
| Priyanka Rai        | UGC               | Dr. Dhiraj Saha       | Female | 02.02.2017      |
| Abhisekh Subba      | UGC               | Dr. Dhiraj Saha       | Male   | 18.09.2017      |
| Prerana Bhujel      | UGC               | Dr. Dhiraj Saha       | Female | 24.12.2019      |

| Name             | Fellowship Status         | Supervisor's Name    | Gender | Date of Joining |
|------------------|---------------------------|----------------------|--------|-----------------|
| Nilu Limboo      | UGC                       | Dr. Dhiraj Saha      | Female | 24.12.2019      |
| Prapti Das       | UGC                       | Dr. Dhiraj Saha      | Female | 03.09.2020      |
| Shashwati Ghosh  | UGC                       | Dr.Arpan Kumar Maiti | Female | 03.01.2019      |
| Swati Singh      | WB - DBT (till 31.3.2017) | Prof. Min Bahadur    | Female | 01.02.2013      |
| Ruksa Nur        | Nil                       | Dr. Sudip Barat      | Female | 08.11.2012      |
| Bappaditya Ghosh | UGC-BSR (till 25.03.2018) | Prof. Min Bahadur    | Male   | 26.03.2013      |
| Trisita Mazumdar | UGC-BSR fellow resigned   | Prof. Min Bahadur    | Female | 21.06.2015      |
| Saugata Ghosh    | Nil                       | Prof. Min Bahadur    | Male   | 26.09.2011      |
| Debojit Dutta    | UGC -NFSC                 | Prof. Min Bahadur    | Male   | 02.01.2020      |
| Arpita Ray       | JRF, CSIR                 | Prof. Min Bahadur    | Female | 14.02.2020      |

#### Details of Project Scholar:

| Name               | Projects | Supervisor's Name    | Gender | Date of Joining |
|--------------------|----------|----------------------|--------|-----------------|
| Manas Pratim Modak | DST-SERB | Dr. Dhiraj Saha      | Male   | 21.01.2020      |
| Mr. Arun Roy       | CSIR     | Dr. Sourav Mukherjee | Male   | 09.08.2021      |

#### Details of PhD Students (Without Fellowship):

| Name              | Supervisor's Name | Gender | Date of Admission in PhD Course Work |
|-------------------|-------------------|--------|--------------------------------------|
| Sagar Sarkar      | Dr. Tilak Saha    | Male   | 04.01.2019                           |
| Mr. Saugata Ghosh | Prof. Min Bahadur | Male   | 26.09.2011                           |

#### Details of Seminars/Conferences/Webinar Organized:

| Name of the Seminar/Conference/ Webinar  | Date       | Number of Participants |
|--|------------|------------------------|
| Distribution, Prevalence, Surveillance and Control of major Dengue vectors: <i>Aedes aegypti</i> and <i>Ae. albopictus</i> | 05.09.2020 | 100                    |
| Control of Malaria and Dengue vectors by targeting the insecticide resistance development mechanisms on mosquitoes         | 20.02.2021 | 100                    |
| Epigenetics: Life beyond your genes  | 05.03.2021 | 30                     |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name of the Teacher</b> | <b>Name of the Seminars/Conferences</b>  | <b>Date</b>   |
|----------------------------|--|---------------|
| Prof. Soumen Bhattacharjee | One Day National Level Webinar on Modern Era of Scientific Research and Medical Ethics to Combat Corona Pandemic, organized by Departments of Chemistry, Zoology and IQAC, Jangipur College, Murshidabad, India  | 28.07.2020    |
|                            | One Day National Level Webinar on “COVID-19 General Awareness & Control Measures” organized by Department of Zoology, Malda College, Malda, India.   | 06.08.2020    |
|                            | Two Day International Virtual Conference on “Frontiers in Health Sciences” Organized by Cotton University, Guwahati and Department of Biosciences and Bioengineering, IIT-Guwahati and Indian Academy of Biomedical Sciences, Lucknow, India.  | 07-08.08.2020 |
|                            | National Webinar on Vector borne diseases in NE India and their Public Health implications Organised by Zoological Society of Assam (ZSA), Guwahati.   | 09.08.2020    |
|                            | International Webinar entitled “Insights from transdisciplinary approaches for responding to COVID-19 impacts in Aquatic-Social- Ecological systems” organized by Department of Zoology (ZSA Unit), Jawaharlal Nehru College, Boko under DBT Star Status Scheme, in collaboration with Zoological Society of Assam (ZSA), India. | 15.08.2020    |
|                            | Webinar on the DBT’s Autonomous Institutes to Covid-19 Part I organized by DBT, India and India Alliance   | 21.08.2020    |
| Dr. Ritwik Mondal          | International Webinar on Animal Ethics and Human Genomics by Dept. of Zoology & IQAC of Govt. Degree College, Araku Valley, Visakhapatnam  | 05.08.2020    |
|                            | 2-days State level webinar on Covid-19: Molecular aspects & its possible managements by Dept. of Zoology & Botany Suupported by IQAC, Kalna College, West Bengal   | 07-08.08.2020 |
|                            | International Webinar on Insights from trans disciplinary approaches for responding to Covid-19 impacts in aquatic-social-ecological systems   | 15.08.2020    |
| Dr. Arpan K. Maiti         | Frontiers in Biological Sciences by Department of Micrbiology, St. Xavier’s University, Kolkata, India.  | 02-04.07.2020 |
|                            | Emerging field of Chemistry and Biomedical Research by Department of Chemistry, Cooch Behar Panchanan Barma University, West Bengal, India   | 06-07.08.2020 |

| Name of the Teacher | Name of the Seminars/Conferences  | Date          |
|---------------------|---|---------------|
|                     | Insights from transdisciplinary approaches for responding to COVID-19 impacts in aquatic- social- ecological systems by Department of Zoology (ZSA Unit), Jawaharlal Nehru College, Boko under DBT Star Status Scheme, in collaboration with Zoological Society of Assam (ZSA). | 15.08.2020    |
|                     | Host-Microbe Interactions: Present and Future Perspectives by School of Biotechnology, Department of Life Sciences, Presidency University, Kolkata  | 06-07.08.2020 |
|                     | 'Covid-19: RT-PCR Diagnostics Therapeutics' organised by University of Kalyani in association with COM-JNM Hospital   | 05-07.08.2020 |
|                     | 'Confocal Microscopy and Image processing' organised by University of Kalyani (DST-PURSE II) in association with CARL ZEISS, India,   | 17-18.09.2020 |

#### Publications:

| Name of the Author  | Name of the Book/Journal/Volume   | Year     |
|---|---|----------|
| Lala, M., Modak, D., Paul, S., Sarkar, I., Dutta, A., Kumar, A., <b>Bhattacharjee, S.</b> & Sen, A.             | <i>Bulletin of the National Research Centre</i> 48: 81.   | May 2020 |
| Paul, S., Modak, D., Chattaraj, S., Nandi, D., Sarkar, A., Roy, J., Chaudhuri, T. K. & <b>Bhattacharjee, S.</b> | <i>Future Journal of Pharmaceutical Sciences</i> 7 (12): 1-8.   | Jan 2021 |
| Paul, A., Mukhopadhyay, T. & <b>Bhattacharjee, S.</b>   | <i>International Journal of Aquatic Biology</i> 9 (1): 1-10.  | Feb 2021 |
| Modak, D., Paul, S., Sarkar, S., Thakur, S. & <b>Bhattacharjee, S.</b>  | <i>BMC Complementary Medicine and Therapies</i> 21: 89. [IF=3.659 ]   | Mar 2021 |
| Bharati, M., and <b>Saha, D.</b>  | Insecticide resistance status and biochemical mechanisms involved in <i>Aedes</i> mosquitoes. <i>Asian Pacific Journal of Tropical Medicine</i> 14(2): 52-63. Impact Factor 1.94. | Jan 2021 |
| Subba, A., Bharati, M., Rai, P. and <b>Saha, D.</b>   | Phytochemical composition of <i>Heracleum nepalense</i> D. Don fruit extracts and its activity against the larvae of <i>Aedes albopictus</i> (Diptera:                            | Jun 2020 |



| Name of the Author   | Name of the Book/Journal/Volume   | Year     |
|--|---|----------|
|  | Culicidae). <i>International Journal of Tropical Insect Science</i> 40, 373–383 (2020)  |          |
| <b>Tilak Saha</b> , Bipranch Kumar Tiwary. (Editors)                                       | <i>Microbes, Environment and Human Welfare</i> (Edited). ISBN- 978-1-53617-945-3, Nova Science Publisher, USA.  | Jul 2020 |
| Amlan Jyoti Ghosh and <b>Tilak Saha</b>  | Microbes, inflammation and type-2 diabetes mellitus in human- an intricate relationship, In <i>Microbes, Environment and Human Welfare</i> , Nova Science Publisher, NY, USA, ISBN: 978-1-53617-945-3.  | Jul 2020 |
| <b>Tilak Saha</b>  | Soil microbiome to sustainable agriculture-role of soil fauna, In <i>Microbes, Environment and Human Welfare</i> , Nova Science Publisher, NY, USA, ISBN: 978-1-53617-945-3.  | Jul 2020 |
| Farha Yasmin, Sona Sutradhar, Poulami Das, <b>Sourav Mukherjee</b>                         | Gut melatonin: A potent candidate in the diversified journey of melatonin research, <i>General and Comparative Endocrinology</i> , Vol 303, IF - 2.822  | Mar 21   |
| Spoorthi BC, Sunil S More, Gautham SA, Shashwati Ghosh, Ishita Saha, <b>Arpan K. Maiti</b> | Role of Free Radical Scavenging Activity of Vasoactive Intestinal Peptide in the Attenuation of Mitochondrial Dysfunction to Ameliorate Dextran Sulphate Sodium-Induced Colitis in Mice: Implications in Ulcerative Colitis, <i>Journal of Digestive Diseases</i> , 21(12):711-723, IF 2.34 | Aug 2020 |
| <b>Arpan K. Maiti</b>  | Detection and Treatment of Pesticide Induced Mitochondrial Diseases: Challenges Galore, <i>Research Trends in Life Sciences</i> (pp.71-84), Publisher: AkiNik Publications, ISBN: 978-93-90322-67-1   | Jul 2020 |
| <b>Arpan K. Maiti</b> , Spoorthi B.C., Shashwati Ghosh, Ishita Saha                        | Management of Ulcerative Colitis: Present and Future Treatments, (pp.29-42), Publisher: AkiNik Publications, Paperback ISBN: 978-93-90322-03-9  | Aug 2020 |

#### Research Projects Details:

| Title of the Project   | PI                   | Sponsored by | Year of Sanction | Duration | Budget (Rs.) |
|--|----------------------|--------------|------------------|----------|--------------|
| Functional implications of endogenous gut melatonin on the rate of ovarian growth and development in carp <i>Catla catla</i> | Dr. Sourav Mukherjee | CSIR         | 2019             | 3 years  | 34,00,000    |

| <b>Title of the Project</b>   | <b>PI</b>          | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Duration</b> | <b>Budget (Rs.)</b> |
|---|--------------------|---------------------|-------------------------|-----------------|---------------------|
| Investigations on the impact of mitochondria-derived peptide Humanin and its analogue for maintenance of colon epithelial tract in ulcerative colitis using in vivo and in vitro models: Search for anti-colitogenic agents | Dr. Arpan K. Maiti | NBU                 | 2020                    | 1 year          | 1,50,000            |

**Miscellaneous:**

Dr. Ritwik Mondal has been appointed as the Regional Representative in-Charge, Society of Medical Arthropodology (SOMA) Regional Office, North-East Region, India (Ex-officio) w.e.f. 06/02/21.

## B. Faculty of Arts, Commerce and Law

### DEPARTMENT OF BENGALI

#### About the Department:

The Department of Bengali commenced its journey from 8<sup>th</sup> February 1965, three years after the establishment of the University of North Bengal. The basic objectives of setting up of the Department were the promotion of Vernacular education, systematic and scholarly study of Bengali literature and language and regional languages & literature as well.

In its long journey of last 48 years, it has most commendably performed its duties and successfully fulfilled its purpose. Initially the Department was started with only thirteen students in its present location. Over the years, the number of Students, Research Scholars and Teachers have increased. It has firmly established its worth in teaching and Research in the field of Bengali language and literature.

To cater the need, the Department of Bengali started its journey at the Jalpaiguri Campus, with Master of Arts programme from 16<sup>th</sup> August 2013. The Department offers two optional specializations in the groups of Kathasahitya and Madhya Youg in the Post Graduate level.

#### Courses Offered:

- M. A.
- M. Phil.
- Ph. D.

#### Research Focus:

- Ancient & Mediaeval Bengali Literature
- Baishnav Literature
- Modern Bengali Literature
- Literary Criticism
- Socio – Linguistic Study
- Folklore and folk culture

#### Student Strength:

| Course                   | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------------------------|------|--------|-------|----|----|-------|-------|-----|
| <b>Main Campus</b>       |      |        |       |    |    |       |       |     |
| MA Sem – I               | 38   | 63     | 101   | 54 | 6  | 11    | 10    | 20  |
| MA Sem III               | 37   | 66     | 103   | 49 | 4  | 13    | 16    | 21  |
| <b>Jalpaiguri Campus</b> |      |        |       |    |    |       |       |     |
| MA Sem – I               | 18   | 30     | 48    | 23 | 4  | 5     | 7     | 9   |
| MA Sem III               | 14   | 28     | 42    | 21 | 3  | 5     | 6     | 7   |

**Faculty Details:**

| Name                     | Qualification  | Designation     | Email                    |
|--------------------------|----------------|-----------------|--------------------------|
| Prof. Manjula Bera       | Ph.D.          | Professor       | manjulabera@nbu.ac.in    |
| Prof. Nikhil Chandra Ray | Ph.D.          | Professor       | nikhilesray@nbu.ac.in    |
| Dr. Utpal Mandal         | Ph.D.          | Professor       | utpalmandal@nbu.ac.in,   |
| Dr. Surya Lama           | Ph.D.          | Asst. Professor | suryalama@nbu.ac.in      |
| Dr. Urbi Mukherjee       | Ph.D.          | Asst. Professor | urbi.2017@nbu.ac.in      |
| Dr. Ashis Roy            | Ph.D.          | Asst. Professor | ashisroy@nbu.ac.in       |
| Dr. Plaban Singha        | Ph.D.          | Asst. Professor | plabansingha@nbu.ac.in   |
| Dr. Hasnara Khatun       | M.Phil., Ph.D. | Asst. Professor | hasnarakhataun@nbu.ac.in |
| Sharmishtha Paul         | MA, M.Phil.    | Asst. Professor | sharmisthapaul@nbu.ac.in |

**Details of Non-Teaching Staff:**

| Name                  | Qualification | Designation     |
|-----------------------|---------------|-----------------|
| Rajib Goswami         | B. Com        | Jr. Superintend |
| Ramesh Chandra Singha | Madhyamic     | Sr. Peon        |

**Research Scholars:**

| Name of the RS       | Name of the RS        | Name of the RS       |
|----------------------|-----------------------|----------------------|
| Abhishek Mondal      | Madhurima Kar         | Puja Chakraborty     |
| Apu Barman           | Manika Chakraborty    | Purnima Das          |
| Beauty Rakshit       | Mallika Sannigrahi    | Saijya Das           |
| Bratati Singha       | Mithun Thandar        | Samiran Bera         |
| Debasish Mandal      | Moumita Sarkar        | Sanam Nasrin         |
| Jagadish Roy         | Nandana Bandyopadhyay | Shrabanti Barman     |
| Joynab Binte Hossain | Netai Ghosh           | Subrata Bhattacharya |
| Kanika Roy           | Piyali Das            | Sudeshna Moitra      |
| Latika Roy Poddar    | Pradip Roy            | Tapas Kumar Sardar   |

**Project Scholars:**

| Name             | Project  | Gender | Year of Joining |
|------------------|--|--------|-----------------|
| Sharmishtha Paul | ‘Malda Jelay Vinn Sopmodayer Manusher Dhormiyo Bi Swaher Swarup Sondhan’ | Female | 2021            |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>        | <b>Details</b>  | <b>Date</b>   | <b>Title of the Paper Presented</b>                            |
|--------------------|---|---------------|--|
| Prof. Manjula Bera | International Webinar organised by জাতীয় কবি কাজী নজরুল ইসলাম বিশ্ববিদ্যালয়, ময়মনসিংহ, বাংলাদেশ  | 26.03.2021    | বাংলা ভাষি মানুষের জাতি ও জাঙ্গিসত্তার ইতিহাস                  |
|                    | International Webinar organised by জাতীয় কবি কাজী নজরুল ইসলাম বিশ্ববিদ্যালয়, ময়মনসিংহ, বাংলাদেশ  | 27.12.2020    | বাংলাদেশ মুক্তিযুদ্ধে ভারত সরকার ও ভারতীয় জনগণের অভিব্যক্তি   |
|                    | International Webinar organised by রাজগঞ্জ কলেজ এবং বানেশ্বর সারথীবালা মহাবিদ্যালয়   | 17.03.2021    | মঙ্গলকাব্য : সেকাল ও একালের ভাবনায়                            |
|                    | International Webinar organised by Bankura University   | 13.07.2020    | প্রবহমান বাংলা সাহিত্যে সময়চেতনা : ব্যক্তি ও সমষ্টির দ্বন্দ্ব |
| Prof. Utpal Mandal | Refresher Course on Natok o Natyacharcha, organised by UGC-HRDC-NBU   | 14.12.2020    | Puranvabnar Biborton o Adhunik Bangla Natok                    |
|                    | International Webinar on নারীর অবমাননা-আত্মসংগ্রাম ও বিশ শতকের বাংলা সাহিত্য organised by Tufanganj College, Dinhatra College Collaboration and CBPBU | 15-16.07.2020 | নারীর অবমাননা ও আত্ম চেতনার ভিন্ন মাত্রা: মহাশ্বেতা দেবীর গল্প |
|                    | National seminar on Prahaman Bangla Sahitye Samoy Chetona: Vyakti O Samoy organised by Bankura University   | 15.07.2020    | Unish Shatoker Nabajagoran: byakti o samoy                     |
| Dr. Urbi Mukherjee | International Webinar   | 27.06.2020    | আলবেয়ারকামুর 'দ্যপ্লেগ' : অস্তিত্বের সংকট ও রূপকান্তিত বয়ান  |
|                    | International Webinar   | 03-04.07.2020 | 'অমিয়ভূষণের নির্বাস: নরনারীর সম্পর্ক ও আধুনিকতার মাত্রা'      |
|                    | Workshop  | 13-19.07.2020 | Probahaman Bangla Sahitye Somay Chetona                        |
|                    | e-workshop  | 18-19.07.2020 | Online Teaching, Learning and Evaluation                       |
|                    | UGC sponsored Short-Term Course   | 2-8.02.2021   | Counseling and Stress Management                               |

| Name           | Details  | Date          | Title of the Paper Presented |
|----------------|--|---------------|------------------------------|
| Dr. Surya Lama | International Webinar on ‘বাংলা সাহিত্যে ত্রি-বর্গ আলাপ’   | 19.08.202     | Attended                     |
|                | International Webinar on ‘আধুনিক বাংলা কবিতায় মহামারী’  | 21.08.2020    | Attended                     |
|                | International Webinar on ‘উপন্যাসের দ্বন্দ্বভূমিতে বন্দ্যোপাধ্যায়ত্রয়ী’                            | 22.08.2020    | Attended                     |
|                | State level webinar on ‘নাটক : ভাষ্যে ও দৃশ্যে’  | 23.08.2020    | Attended                     |
|                | National level webinar on ‘An August Requiem- A Cultural Millieu : A Tribute to Rabindranath Tagore’ | 23.08.2020    | Attended                     |
|                | State level webinar ‘বিষাদ থেকে কবিতার উত্তরণ’   | 24.08.2020    | Attended                     |
|                | International webinar on ‘Environmental Theatre and language Teaching’                               | 24-26.08.2020 | Attended                     |
|                | State level webinar on ‘শতবর্ষে সত্যজিৎ শিশু কিশোর সীমানা পেরিয়ে ফেলুদা’                            | 26.08.2020    | Attended                     |
|                | State level webinar on ‘বাংলা ভাষা : মুখের ভাষা ও লেখার ভাষা’  | 27.08.2020    | Attended                     |
|                | International Webinar on ‘লোকসাহিত্যে আশাবাদ ও বর্তমান প্রাসঙ্গিকতা’                                 | 27.08.2020    | Attended                     |
|                | International Webinar on ‘বাংলা সাহিত্যে সামাজিক, রাজনৈতিক, সাংস্কৃতিক ও ধর্মীয় আন্দোলন’            | 28-29.08.2020 | Attended                     |
|                | সাহিত্য-সংস্কৃতির নানাদিক, চিরামতী পত্রিকা   | 19.09.2020    | নেপালি ভাষা                  |

#### Publications:

| Name               | Name of the Book/Journal/Volume  | Year |
|--------------------|--|------|
| Prof. Manjula Bera | Narayan Deber Padmapuran-e Bishay O Shilpo-kathamor Baichitrya, Mangalkabya Path O Parikrama, Manik Maitra O Tapas Mandal (Ed.), ISBN No – 978-81-951540-4-3 | 2021 |
|                    | Baishnav Padabalar Bhasasaili, Bangiya Sahitya Samsad, ISBN : 978-81-938978-0-5  | 2020 |

| Name               | Name of the Book/Journal/Volume   | Year |
|--------------------|---|------|
| Prof. Utpal Mandal | Smriti-satta-vobishyoter Gan :Jyotsnay Veja Nakchabi, Batigharonline.com, Kalyani   | 2020 |
|                    | Bartomane Bangla VasharSongkot o Samvabona bit.ly/easternnews.com   | 2020 |
|                    | Bangla KobitarAdhunikota o RabindranatherKobita, Banglarmamatimanush.com, Online Journal from Kolkata   | 2020 |
|                    | Uttor Karona : Agami, www.akaalbodhon.com, Online Journal from Dhaka, Bangladesh  | 2020 |
| Dr. Urbi Mukherjee | সৃষ্টিঘলবাড়ী :কথনেরকথকতা’, Adhunik Bangla Upanyaser Gatiprokriti, Ajay Saha (ed), ISBN no. 978-93-88868-61-7   | 2020 |
|                    | “ছ’ওমাহিনায় দুই মাইল বন খায়া ফেলেছে”, Ecocriticism O Bangla Sahitya, Susanta Mandal (Ed.), ISBN no. 978-93-87003-38-5                                     | 2021 |
| Sharmishtha Paul   | ‘শরীর মনস্তত্ত্বের আখ্যানঃ হলদে গোলাপ’-সংশপ্তক পত্রিকা’, ISSN 2454-4884   | 2020 |
|                    | ধর্মীয় আখ্যানে প্রথম ভ্রমণ কাহিনিঃ বিজয়রাম সেনের ‘তীর্থ-মঙ্গল’ – ‘মঙ্গলকাব্য পাঠ ও পরিক্রমা’, মানিক মৈত্র ও তাপস মণ্ডল (সম্পাদনা), ISBN-978-81-951540-4-3 | 2021 |
| Dr. Ashis Roy      | ঘনশ্যাম চৌধুরীর গল্প : চেনার মধ্যে অচেনা জগৎ, এবং মল্লয়া   | 2021 |

## DEPARTMENT OF COMMERCE

### About the Department

The Department of Commerce, University of North Bengal was established in 1965 with the purpose to promote state of the art teaching and research and in Business Operations and Management. The primary programme offered by the Department is Master of Commerce, with specializations offered Accounting Finance, Personnel Management and Human Resource Management, Marketing. The course curriculum has been designed according to the guidelines prescribed by the UGC and aims at equipping the students with technical and analytical skill in management of funds, people, markets and legal and economic environment of business so that they are capacitated to handle strategic and operational issue in corporate and non-corporate business house. The Department also runs a full time six-month Research Methodology course for Ph. D. scholars.

For administration of the courses, modern pedagogic techniques link case studies, business games, role playing etc. are used with appropriate audio-visual media. The examination and assessment processes consist of structured class tests, assignments, viva-voce and seminar presentations.

The faculties of this Department have diverse specializations to cater to the needs of teaching and research and has also been associated with a large number of universities, institutions and government departments. The department has organized national level seminars and workshops and contributed in development of teachers in the field of management by organizing Refresher Courses.

The alumni of this departments are placed as professional managers in banking insurance and other companies and as faculty in several universities, colleges and reputed management and professional institutes.

### Courses Offered:

- M. Com.
- M. Phil.
- Ph. D.

### Research Focus:

- Organizational Development
- Microfinance and Financial Inclusion
- Transport Economics
- Industrial Relations
- Corporate Finance
- Organizational Behaviour

### Year-wise Student Strength:

| Course  | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|---------|------|------|--------|-------|----|----|-------|-------|-----|
| M. Com. | 2020 | 57   | 43     | 100   | 21 | 16 | 1     | 18    | 46  |



**Faculty Details:**

| Name                  | Qualification          | Designation      | Email                      |
|-----------------------|------------------------|------------------|----------------------------|
| Palas Ranjan Sengupta | LLB, Ph.D.,<br>D.Litt. | Professor        | senguptapalas@gmail.com    |
| Samirendra Nath Dhar  | MBA, Ph.D.             | Professor        | dharsnd@gmail.com          |
| Indrajit Ray          | Ph.D.                  | Professor        | indrajitraynbu@gmail.com   |
| Dipen Roy             | MBA, Ph.D.             | Professor        | roydipennbu@rediffmail.com |
| Debabrata Mitra       | Ph.D.                  | Professor        | debabrata_nbu@yahoo.co.in  |
| Debasis Bhattacharya  | MBA, Ph.D.             | Assoc. Professor | debasisnbu@gmail.com       |
| Soumitra Sarkar       | Ph.D.                  | Assoc. Professor | soumitrasarkar46@gmail.com |
| Gangotree Ghosh       | Ph. D,                 | Assoc. Professor | ghoshgangotre@gmail.com    |
| Joy Sarkar            | M.Com.                 | Asst. Professor  | jscnbu@gmail.com           |
| Saraswati Lama        | M.Com.                 | Asst. Professor  | lamasaraswati03@nbu.ac.in  |
| Jamaludden            | Ph.D.                  | Asst. Professor  | qjamaluddeen@gmail.com     |

**Details of Non-Teaching Staff:**

| Name           | Qualification             | Designation               |
|----------------|---------------------------|---------------------------|
| Rashik Lal Roy | Madhyamik (appeared)      | Sr. Peon                  |
| Manik Das      | H.S., Diploma in Computer | Office Assistant (Casual) |

**Details of Research Scholars:**

| Name              | Fellowship Status | Supervisor's Name  | Gender | Date of Joining |
|-------------------|-------------------|--------------------|--------|-----------------|
| Pema Kisheb Yolmo | UGC NET JRF       | Dr. D Bhattacharya | Male   | 06.01.2020      |
| Sherab Wangdi     | UGC NET JRF       | Dr. Dipen Roy      | Male   | 11.03.2021      |
| Md. Nasim Ansari  | UGC NET JRF       | Dr. Jamaluddeen    | Male   | 11.03.2021      |
| Mintu Adhikary    | UGC NET JRF       | -                  | Male   | 11.03.2021      |
| Dev Anand         | UGC NET JRF       | -                  | Male   | 20.03.2021      |
| Bishal Routh      | UGC NET JRF       | -                  | Male   | 13.03.2021      |

**Details of PhD Students (Without Fellowship):**

| Name           | Supervisor's Name      | Gender | Date of Admission in Ph.D. Course Work |
|----------------|------------------------|--------|--|
| Subrata Mallik | Prof. Dipen Roy        | Male   | 02.01.2020                             |
| Serene Alam    | Dr. Jamaluddeen        | Female | 02.01.2020                             |
| Suraj Agarwal  | Prof. Palas R.Sengupta | Male   | 01.01.2020                             |

| <b>Name</b>            | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Admission in Ph.D. Course Work</b> |
|------------------------|--------------------------|---------------|---|
| Prasenjit Bhowmick     | Prof. Palas R.Sengupta   | Male          | 01.01.2020                                    |
| Tanisha Kansal         | Prof, Palas R. Sengupta  | Female        | 01.01.2020                                    |
| Prajjawal Pradhan      | Dr. Jamaluddeen          | Male          | 01.01.2020                                    |
| Sanjukta Mahanta Mitra | Dr. Soumitra Sarkar      | Female        | 02.01.2020                                    |
| Surendra Kumar Saha    | Dr. Jamaluddeen          | Male          | 01.01.2020                                    |
| Debarati Dev           | Prof. Debabrata Mitra    | Female        |   |
| Prasid Gurung          | Dr. Soumitra Sarkar      | Male          | 13.03.2021                                    |
| Chhyodup Lepcha        | Dr. Gangotree Ghosh      | Male          | 12.03.2021                                    |
| Kriti Shakya           | Dr. Gangotree Ghosh      | Female        | 12.03.2021                                    |
| Lakpa Tashi Sherpa     | Prof. Palas.R sengupta   | Male          | 12.03.2021                                    |
| Soumili Bishnu         | Prof. Palas.R sengupta   | Female        | 11.03.2021                                    |
| Subhal Prasad          |                          |               |   |
| Rajeev Dutraj          | Prof. Palas.R sengupta   | Female        | .03.2021                                      |
| Rajesh Kumar           | Prof. Debabrata Mitra    | Male          | 14.3.3031                                     |
| Md Azharuddin          |                          | Male          | 19.03.2021                                    |
| Subham Prasad          |                          | Male          | 12.03.2021                                    |
| Alivia Ghosh           | Prof. Palas.R sengupta   | Female        | 02.01.2019                                    |
| Suchismita Paul        | Dr. Soumitra Sarkar      | Female        | 10.12.2019                                    |
| Pema Kisheb Yolmo      | Dr. Debasis Bhattacharya | Male          | 06.01.2020                                    |

## DEPARTMENT OF ECONOMICS

### About the Department:

The Department of Economics, University of North Bengal was established on 2<sup>nd</sup> November, 1962. In keeping with curricular reform and development, the Department has instituted continuing evaluation of its students through Group-Discussions and a comprehensive Viva-voce examination, and a Term Paper in addition to written examinations held at the conclusion of each postgraduate semester.

Since the 8<sup>th</sup> Plan period, the Department has also imparted a field-orientation to its regular Postgraduate course through its Student Survey Programme (SSP), which offer rural sensitization to students of Economics, besides providing rigorous exposure to the entire investigative procedure involved in sample-surveys, ranging from sample drawal and execution of the SSP questionnaire, through tabulation and computation to the economic analysis of data and report presentation. Remedial teaching and student counselling using tutorial and preceptorial methods are also undertaken to help weaker students to frame answers to assignments and develop writing skills in the regular course work.

The Department has an active research programme under which many students have successfully worked for Ph.D. in Economics. As per new UGC regulations, 2009, entrance examination, compulsory course work, etc. have been duly introduced to ensure rigour in research. The Department has an impressive performance record in the NET and SLET Examinations, where several students of the Department have qualified till date for lectureship/JRF.

### Courses Offered:

- M. A.
- M. Phil.
- Ph. D.

### Research Focus:

- Inequality and Human Development
- Micro Economics
- Feminist and Gender Economics
- Infrastructure Economics
- Plantation Economics
- Gender and Tribal Economics

### Year-wise Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| M. A.  | 2021 | 09   | 22     | 31    | 01 | 02 | 02    | 01    | 28  |

**Details of Course Completed by Students in 2020 - 21:**

| Course | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|--------|-------|----|----|-------|-------|-----|
| M. A.  | 11   | 11     | 22    | 03 | 02 | 02    | 01    | 14  |

**Faculty Details:**

| Name                                   | Qualification     | Designation      | Email                     |
|--|-------------------|------------------|---------------------------|
| Prof. K K Bagchi                       | Ph.D.             | Professor        | econkkbagchi@nbu.ac.in    |
| Prof. Sanchari Roy Mukherjee (on lien) | Ph.D.             | Professor        | sancharimeco@nbu.ac.in    |
| Prof. Anil Bhumali (On lien)           | Ph. D.            | Professor        | anilbhumali@nbu.ac.in     |
| Ms. Sudakshina Ray                     | M.A               | Assoc. Professor | sudakshina.ray@nbu.ac.in  |
| Dr. Kanchan Datta                      | M.Phil.,<br>Ph.D. | Assoc. Professor | kanchandatta_72@nbu.ac.in |
| Dr. Tamash Ranjan Majumdar             | Ph.D.             | Asst. Professor  | trmeco@nbu.ac.in          |
| Dr. Govinda Choudhury                  | Ph.D.             | Asst. Professor  | govinda.c2006@nbu.ac.in   |
| Dr. Amlan Majumder                     | MPS., Ph.D.       | Assoc. Professor | amlan@nbu.ac.in           |
| Mr. Karan Tamang                       | M.A.              | Asst. Professor  | karantamang_eco@yahoo.in  |
| Dr. Zafar Iqubal                       | Ph.D.             | Asst. Professor  | zafareco@nbu.ac.in        |

**Details of Non-Teaching Staff:**

| Name                | Qualification | Designation                 |
|---------------------|---------------|-----------------------------|
| Nayan Jyoti Das Roy | Graduate      | Junior Assistant cum Typist |
| Dolly Dey           | Eight pass    | Senior Peon                 |

**Details of Research Scholars:**

| Name             | Fellowship Status | Supervisor's Name   | Gender | Date of Joining |
|------------------|-------------------|---------------------|--------|-----------------|
| A Chakraborty    | State-aided JRF   | Dr. G Choudhury     | Female | 01.01.2020      |
| Kishan Agarwalla | State-aided JRF   | Dr. T R Majumdar    | Male   | 03.01.2019      |
| Jeherul Islam    | SVMCM             | Dr. A Majumder      | Male   | 02.01.2020      |
| Barnali Das      | SVMCM             | Dr. A Majumder      | Female | 02.01.2020      |
| Y M Pradhan      | SVMCM             | Dr. G Choudhury     | Male   | 01.01.2020      |
| Rahul Mukhia     | SVMCM             | Prof. S R Mukherjee | Male   | 02.01.2020      |

| <b>Name</b>      | <b>Fellowship Status</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> |
|------------------|--------------------------|--------------------------|---------------|------------------------|
| Trishala Rai     | SVMCM                    | Prof. S R Mukherjee      | Female        | 02.01.2020             |
| Deepesh Chhetri  | Sikkim Govt. Scholarship | Dr. K Datta              | Male          | 16.12.2013             |
| Sabahul Moazzam  | SVMCM                    | Dr. Z Iqbal              | Male          | 02.01.2020             |
| Adarsh Rai       | SVMCM                    | Dr. T R Majumdar         | Male          | 01.01.2020             |
| Pranay Sharma    | SVMCM                    | Dr. G Choudhury          | Male          | 01.01.2020             |
| Ashish Moktan    | SVMCM                    | Dr. A Majumder           | Male          | 01.01.2020             |
| Deep Gurung      | SVMCM                    | Prof. S R Mukherjee      | Male          | 01.01.2020             |
| Palzor Dukpa     | SVMCM                    | Dr. Z Iqbal              | Male          | 02.01.2020             |
| P K Prasad       | SVMCM                    | Prof. K K Bagchi         | Male          | 01.01.2020             |
| Mousumi Saha     | SVMCM                    | Dr. K Datta              | Female        | 01.01.2020             |
| Kuber Chettri    | SVMCM                    | Dr. A Majumder           | Male          | 04.01.2019             |
| Dhanjit Sarkar   | SVMCM                    | Prof. K K Bagchi         | Male          | 04.01.2019             |
| Bipasana Pradhan | SVMCM                    | Prof. S R Mukherjee      | Female        | 03.01.2019             |
| Biplob Roy       | SVMCM                    | Dr. G Choudhury          | Male          | 03.01.2019             |
| Mayuri Sarkar    | SVMCM                    | Dr. T R Majumdar         | Female        | 04.01.2020             |
| Esha Dey         | SVMCM                    | Dr. K Datta              | Female        | 03.01.2019             |

**Details of PhD Students (Without Fellowship):**

| <b>Name</b>           | <b>Supervisor's Name</b>               | <b>Gender</b> | <b>Admission in Ph.D. Course Work</b> |
|-----------------------|--|---------------|---------------------------------------|
| Sulagna Chandra       | Dr. T R Majumdar                       | Female        | 04.01.2019                            |
| Shah Alom             | Dr. Z Iqbal                            | Male          | 02.01.2020                            |
| Amrita Banerjee       | Dr. A Majumder                         | Female        | 20.12.2013                            |
| Surath Bir            | Dr. A Majumder                         | Male          | 08.01.2016                            |
| Susovan Mondal        | Dr. A Majumder                         | Male          | 01.01.2020                            |
| Sisir Das             | Dr. K Dutta                            | Male          | 03.01.2019                            |
| Rajdwip Saha          | Prof. K.K. Bagchi                      | Male          | 03.01.2019                            |
| Aabriti Sonar         | Prof. S R Mukherjee                    | Female        | 03.01.2019                            |
| Bishal Rai            | Dr. P Sengupta<br>(St. Joseph College) | Male          | 03.01.2019                            |
| Gopal Haldar          | Dr. K Dutta                            | Male          | 01.01.2020                            |
| Yankey Sherpa         | Prof. S R Mukherjee                    | Female        | 07.01.2016                            |
| Sheela Karjee         | Dr. G Choudhury                        | Female        | 08.01.2016                            |
| Tshering Chombay Lama | Prof. S R Mukherjee                    | Male          | 07.01.2016                            |

| <b>Name</b>       | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Admission in Ph.D. Course Work</b> |
|-------------------|--------------------------|---------------|---------------------------------------|
| Tapan Kakati      | Dr. T R Majumder         | Male          | 30.12.2014                            |
| Nabaneeta Deka    | Prof. K K Bagchi         | Female        | 29.12.2014                            |
| Sujit Majumdar    | Prof. K K Bagchi         | Male          | 23.09.2011                            |
| Manik Aich Sarkar | Prof. K K Bagchi         | Male          | 23.09.2011                            |
| Madhumita Das     | Prof. K K Bagchi         | Female        | 23.09.2011                            |

**Details of Seminars/Conferences/Webinar Organized:**

| <b>Name of the Seminar/Conference/ Webinar</b>   | <b>Date</b>         | <b>Number of Participants</b> |
|--|---------------------|-------------------------------|
| International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27 & 28 August 2020 | 500                           |
| National Webinar on Understanding Health Insurance and COVID Covers                    | 19 August 2020      |                               |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name of the Teacher</b>   | <b>Name of the Seminar/ Conference</b>   | <b>Date</b>   |
|------------------------------|--|---------------|
| Dr. Amlan Majumder           | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |
| Prof. Kanak Kanti Bagchi     | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |
| Prof. Sanchari Roy Mukherjee | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |
| Dr. Kanchan Datta            | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |
| Sudakshina Ray               | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |
| Dr. Tamash Ranjan Mujumder   | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |
| Karan Tamang                 | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |
| Dr. Govinda Choudhury        | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |

| <b>Name of the Teacher</b>   | <b>Name of the Seminar/ Conference</b>   | <b>Date</b>   |
|------------------------------|--|---------------|
| Dr. Zafar Iqbal              | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy | 27-28.08.2020 |
| Prof. Sanchari Roy Mukherjee | National Webinar on Understanding Health Insurance and COVID cover                     | 19.08.2020    |

**Details of Seminar/Conferences /Webinar Attended by Students:**

| <b>Name of the RS/PS</b> | <b>Name of the Seminar/ Conference</b>   | <b>Date</b>              |
|--------------------------|--|--------------------------|
| Sushovan Mondal          | One day National webinar on “ India& COVID- 19 : Emerging Issues Organised, by Cooch Behar College   | 29.06.2020               |
| Sushovan Mondal          | One Day International Webinar on “Gender and development: some emerging Issues in recent pandemic situation”, Organised by Women Studies Cell, COP, Cooch Behar College in Collaboration with Women Studies Cell, NBU  | 21.07.2020               |
| Sulagna Chandra          | Remodeling Classroom: The Growing Relevance of Digital Pedagogy During Pandemic, organised by the Department of Education, Uttar Dinajpur  | 15.07.2020               |
| Sulagna Chandra          | International Webinar on Post COVID Global Economy: A Rethink on Strategies and Policy, organised by the Department of Economics, NBU  | 27-28.08.2020            |
| Sulagna Chandra          | International Online seminar on Liberalized Trade Policy with State Commitment to Growth: Case of India and Bangladesh, organised by Chhamaria Anchalik College, Assam   | 27.08.2020               |
| Sulagna Chandra          | National Webinar on Future of Globalization in the context of the Current Pandemic, organised by the Chhaygoan College, Assam  | 22.08.2020               |
| Sulagna Chandra          | Econometrics: Cross Section, Time Series and Panel Data Analysis Using Stata & EViews, Organised by Acharya Prafulla Chandra College, New Barrackpore in collaboration with Prasanta Chandra Mahalanobis Mahavidyalaya | 26.11.2020 to 01.12.2020 |
| Kishan Agarwalla         | Issues and Challenges related to the Marginalised Population during the COVID 19 Pandemic, organised by Balurghat College  | -                        |

**Publications:**

| Name of the Author             | Name of the Book/ Journal/ Volume  | Year |
|--------------------------------|--|------|
| A Pariyar                      | Book: <i>Ensuring food security in India</i> . 1 <sup>st</sup> edition. Nitya Publications, Bhopal, ISBN:978-93-91257-39-2   | 2021 |
| A Pariyar                      | Agriculture in the Hills: A Sustenance based system of Mountain Farming, <i>Alochana Chakra Journal</i> , Vol IX, Issue IV, IF 6.3, ISSN :2231-3990  | 2020 |
| Alam, Iqubal, Zafar            | Climatic and Non-Climatic influence on Food grain Production- Empirical Evidence from Indian Agriculture, <i>International Journal Management</i> , Vol 11, Issue 12, pp. 2544-2557                    | 2020 |
| Ata Nayak, K Paul & K K Bagchi | Population Ageing in India and its Neighbouring Countries with Special Reference to Social Security”, <i>PRAGATI: Journal of Indian Economy</i> , Vol. 8(1), Jan-Jun 2021, pp. 20-41                   | 2021 |
| G Shah, K K Bagchi & V Kalaiah | Book: <i>Education and Caste in India: The Dalit Question</i> , Routledge, ISBN: 978-0-367—74943-9   | 2020 |
| K Agarwalla and K K Bagchi     | Agricultural Marketing Practices in West Bengal with Reference to Potato-A Critical Review, <i>Indian Journal of Agricultural Marketing</i> , 35(1)  | 2021 |
| K Agarwalla and K K Bagchi     | Agricultural Marketing Practices in West Bengal with Special Reference to Potato - A Critical Review, <i>Indian Journal of Agricultural Marketing</i> , - Vol. 35 No.1 Pp. 128-140                     | 2021 |
| K Agarwalla and T R Majumder   | The development of the fishery in the North Bengal region- Progress and Challenges, <i>Shodh Sanchar Bulletin</i> , Vol. 10, Issue 38 (IV) p. 31-38, ISSN - 2229-3620,                                 | 2020 |
| K Agarwalla and T R Majumder   | Determinants of Fisheries Production with Reference to selected Districts in North Bengal : A Panel Data Regression Analysis, <i>Shodh Sarita</i> , Vol. 7, Issue 26 (IV), p. 17-23, ISSN - 2348-2397, | 2020 |
| K Agarwalla and T K Ghosh      | Role of WHO, World Bank and IMF to Control the COVID-19 Pandemic, <i>COVID-19 Pandemic and Its Multidimensional Impact</i> , ISSN:978-81-950760-2-4  | 2021 |
| M Das & K K Bagchi             | The Crisis of Space for Living in the Slums: A Case of Siliguri Municipal Corporation Area, <i>Man, Environment and Society</i> , Vol. 1, No. 1, p. 1-18   | 2020 |
| M Das & K K Bagchi             | Health and Healthcare Situation of Slum-dwellers of Siliguri Municipal Corporation Area: An Empirical Stud”, <i>Humanities and Social Science Studies</i> , Vol. 9, No.2, p. 65-73, ISSN-2319-829-X    | 2020 |



| Name of the Author         | Name of the Book/ Journal/ Volume   | Year |
|----------------------------|---|------|
| M Das & K K Bagchi         | Income and Consumption Pattern in the Slum Area of Siliguri Municipal Corporation: A Comparative Study of Inner and Outer Slum Dwellers”, <i>PRAGATI: Journal of Indian Economy</i> , Vol. 7 (1), pp. 101-120 | 2020 |
| Majumder, A. and T. Kusago | A Simple working Formula of Gini Co-efficient with some common Software command codes, <i>Arthavijnana</i> (Journal of The Gokhale Institute of Politics and Economics) 62(3), p.219-224, ISSN: 0971-586X     | 2020 |

### Research Projects Details:

| Title of the Project   | PI                           | Sponsored by | Year of Sanction | Duration | Budget (Rs.) |
|--|------------------------------|--------------|------------------|----------|--------------|
| Sustainable Development and Livelihood Opportunities: A Study of Rural Livelihood in Eastern Himalayas                       | Dr. Govinda Choudhury        | NBU          | 2020             | 1 year   | 1,00,000     |
| Sustainable Development and Livelihood Opportunities: A Study of Rural Livelihood in Eastern Himalayas: A Gender Perspective | Prof. Sanchari Roy Mukherjee | NBU          | 2020             | 1 year   | 1,00,000     |

### Miscellaneous:

- Dr. Govinda Choudhury participated in two-week online Faculty Development Programme on Preparedness towards Post Pandemic Teaching, Learning and Research from 6-18 July 2020, organised by Gitarattan International Business School, New Delhi
- Dr. Govinda Choudhury attended the online training programme on Fundamentals of Climate Change and Business Case for Action on 3 September 2020, organized by WRI India and CII.
- Dr. Amlan Majumder has been a Visiting Team Member of National Council for Teacher Education, New Delhi for inspection of a College in Rajasthan during 21-23 February 2021.

## DEPARTMENT OF EDUCATION

### About the Department:

The Department of Education is one of the newest Departments of University of North Bengal which was established in 2017. The purpose of the Department is to produce students having ability to develop leadership roles in developing effective educational environment. The students will also be able to apply current, credible learning theory and approaches to the assessment that indicates curriculum and programme. They will be able to process educational data and shape data driven process for educational improvement.

MA in Education (CBCS) course was introduced for the first time in the University of North Bengal from 2019-20 Session with 20 seat capacity. Ph.D. Course Work in Education has also been started from the year 2020.

### Courses Offered:

- M. A.
- Ph. D.

### Student Strength:

| Course        | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|---------------|------|--------|-------|----|----|-------|-------|-----|
| M. A. Sem I   | 3    | 10     | 13    | 4  | 2  | 4     | 0     | 3   |
| M. A. Sem III | 4    | 13     | 17    | 7  | 4  | 2     | 1     | 3   |

### Faculty Details:

| Name             | Qualification                                  | Designation     | Email                 |
|------------------|--|-----------------|-----------------------|
| Dr. Rupnar Dutta | M.A., M. Ed., Ph.D.                            | Asst. Professor | rupnardutta@nbu.ac.in |
| Paromita Das     | M.Sc., M. Ed., M.A. (Edu),<br>Ph.D. (pursuing) | Asst. Professor | paromitadas@nbu.ac.in |

### Details of Non-Teaching Staff:

| Name           | Qualification   | Designation                 |
|----------------|-----------------|-----------------------------|
| Bishnupada Roy | Madhyamik Pass  | Junior Assistant cum Typist |
| AnjanChaudhury | Class VIII Pass | Senior Peon                 |

**Publications:**

| <b>Name of the Author</b> | <b>Publication Details</b>  | <b>Year</b> |
|---------------------------|---|-------------|
| Dr. Rupnar Dutta          | Teacher Effectiveness of Trained Secondary School Teachers with respect to Gender: A Case Study of India, N. B. Publications, ISBN: 978-93-89234-58-9 | 2020        |
|                           | Language Learning in Mother-tongue: Dimensions of Family Values and Indian Philosophy, N. B. Publications, ISBN: 978-93-89234-84-8                    | 2020        |
|                           | Mental Stress Coping in Pandemic Situation: Perspectives of Samkhya-Yoga Philosophy of Education, Authorspress, ISBN: 978-93-90891-55-9               | 2021        |

## DEPARTMENT OF ENGLISH

### About the Department:

The Department of English was one of the few Departments with which the University of North Bengal started functioning sixty years ago in 1962. Since then the Department of English has always been vibrated with teaching, research and extramural activities. In addition to the courses run in the Main Campus, the Department of English at the Jalpaiguri Campus has started journey since 2013 and presently offering MA in English.

Most of the teachers of the Department have international publications and visits to their credit. Some of them are engaged in collaborative work with universities abroad. Always innovative but earnestly student friendly, the staff of the Department have always been trying to keep the matter of teaching and research on a par with the current international standards.

A language lab, a well-stocked seminar library, a computer lab, and the audio-visual aids supplement the elan of the teachers to break new grounds. And the results of all these have always been satisfactory. The Department takes pride in regular output of brilliant students and researchers many of whom are well established academics home and abroad.

### Courses Offered:

- M. A.
- M. Phil.
- Ph. D.

### Research Focus:

- Literary and cultural theory
- Feminism and Gender Studies
- Comparative Aesthetics
- Indian Writing in English
- Postcolonial Theory
- American Literature

### Student Strength:

| Course                   | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------------------------|------|--------|-------|----|----|-------|-------|-----|
| <b>Main Campus</b>       |      |        |       |    |    |       |       |     |
| M. A. Sem I              | 33   | 80     | 113   | 37 | 8  | 10    | 12    | 46  |
| M. A. Sem III            | 30   | 73     | 103   | 35 | 10 | 7     | 14    | 37  |
| <b>Jalpaiguri Campus</b> |      |        |       |    |    |       |       |     |
| M. A. Sem I              | 15   | 40     | 55    | 22 | 3  | 6     | 7     | 17  |
| M. A. Sem III            | 8    | 27     | 35    | 13 | 2  | 1     | 3     | 16  |

**Faculty Details:**

| Name                     | Qualification | Designation      | Email                            |
|--------------------------|---------------|------------------|----------------------------------|
| Ashis Sengupta           | Ph. D.        | Professor        | ashmit2018@nbu.ac.in             |
| Ranjan Ghosh             | Ph. D.        | Assoc. Professor | ranjanghosh@nbu.ac.in            |
| Zinia Mitra              | Ph. D.        | Assoc. Professor | ziniamitra@nbu.ac.in             |
| Bishnupada Ray           | M. A.         | Assoc. Professor | bishnuray@nbu.ac.in              |
| Binayak Roy              | Ph. D.        | Asst. Professor  | binayakroyeng@nbu.ac.in          |
| Sumit Ray                | M. A.         | Asst. Professor  | Sumitray77@nbu.ac.in             |
| Kaushani Mondal          | M.A.          | Asst. Professor  | kaushanimondal@nbu.ac.in         |
| Nirmalya Biswas          | M. Phil.      | Asst. Professor  | Nirmalya.biswas@nbu.ac.in        |
| Kritika Chettri          | M. Phil.      | Asst. Professor  | kritikachettri@nbu.ac.in         |
| Pradipta Shyam Chowdhury | Ph. D.        | Asst. Professor  | pradiptashyamchowdhury@nbu.ac.in |

**Non-Teaching Staff Details:**

| Name              | Designation |
|-------------------|-------------|
| Ashim Kumar Roy   | Group- C    |
| Basudeb Sutradhar | Group-D     |

**Details of Research Scholars:**

| Name                 | Fellowship Status | Supervisor's Name | Gender |
|----------------------|-------------------|-------------------|--------|
| Wasim Akram          | UGC-JRF           | Zinia Mitra       | Male   |
| Santosh Mahaldar     | UGC-JRF           |                   | Male   |
| Mousumi Hazra        | NFSC              |                   | Female |
| Abhirupa Roy         | State JRF         | Ashis Sengupta    | Female |
| Oindrila Chakraborty | UGC JRF           | Binayak Roy       | Female |
| Abhirupa Halder      | UGC JRF           |                   | Female |
| Bidyut Barman        | NFSC              |                   | Male   |
| Jyotirmoy Biswas     | NFSC              |                   | Male   |
| Agnibha Maity        | UGC JRF           | Ranjan Ghosh      | Male   |
| Sucheto Nath         | UGC JRF           |                   | Male   |
| Nabanita Roy         | UGC JRF           |                   | Female |

**Details of PhD Students (Without Fellowship):**

| Name            | Supervisor's Name | Gender |
|-----------------|-------------------|--------|
| Souyadeep Ghosh | Zinia Mitra       | Male   |

| Name             | Supervisor's Name        | Gender |
|------------------|--------------------------|--------|
| Karishma Oraon   |                          | Female |
| Avijit Ghosh     | Binayak Roy              | Male   |
| Anik Sarkar      | Ranjan Ghosh             | Male   |
| Gargi Dutta      | Pradipta Shyam Chowdhury | Female |
| Somashree Sarkar |                          | Female |
| Sayan Chatarjee  |                          | Male   |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name          | Details   | Date          | Title of the paper presented   |
|---------------|---|---------------|--|
| Zinia Mitra   | Two Days International Webinar 'Gender and Resilience :Issues and Perspectives', organised by Malda College                                       | 09.03.2021    | "Women and Resilience : The Gender Paradox"  |
|               | Webinar '#ChooseToChallenge' organised by Intercultural Poetry and Performance Library. ICCR ,Kolkata   | 07.03.2021    | "#ChooseToChallenge"   |
|               | Invited E-Lecture series at Kandra Radhakanta Kundu Mahavidyalaya   | 10.09.2020    | "They thought Death was worth it, but/ Have a self to recover, a queen" Poetry and Sylvia Plath" |
|               | Women's Studies and Feminism, RC organised by UGC-HRDC-NBU  | 13.01.2021    | "Women's Studies and Feminism"   |
|               | RC organised by UGC-HRDC-NBU  | 04.12.2020    | "100 Years of Women Suffrage in the United States"   |
| Binayak Roy   | ICSSR-ERC Sponsored National Webinar on "Society, Disaster & Resilience: Lessons from Literature", organised by Surya Sen Mahavidyalaya, Siliguri | 08.02.2021    | "Precarity in Transit: Migrant Labour in Amitav Ghosh's Novels"                                  |
| P S Chowdhury | International Webinar on Transforming Disciplines: The Impact of Gender organised by Hiralal Bhakat College                                       | 24-25.07.2020 | Bromance in Bollyhood: Re-viewing Sonu Ke Titu Ki Sweety   |

| Name            | Details  | Date                     | Title of the paper presented   |
|-----------------|--|--------------------------|--|
|                 | International Web Lecture Series organised by Onda Thana Mahavidyalaya   | 01-06.06.2020            | Widows and Widowhood in Bapsi Sidhwa's <i>Water</i> : Reviewing Social Distancing                                      |
|                 | International Web Lecture Series organised by Bankura Christian College  | 20.06.2020 to 05.07.2020 | Feminist Press in India: Issues and Concern  |
|                 | Online Lecture Series organised by Calcutta Comparatists 1919  | 04.01.2021               | Writing the City: Lahore as a Heterotopia  |
| Kritika Chettri | International Conference on 'Rethinking the Politics of Memory in South Asia' organised by Swedish South Asian Studies Network           | 9-10.12.2020             | "The Experience of Reconciliation and Remembrance in post war Nepal: A Reading of Tara Rai's Chapamar Yuwati ko Diary" |
|                 | 52 <sup>nd</sup> Annual Convention of the Northeast Modern Language Association (NEMLA)  | 10-14.03.2021            | "Femininity as a Tactics within Military Cultures: A Reading of Two Memoirs by Nepali Women"                           |
|                 | International Conference on 'No Place to Go? Perspectives on displacement, belonging and non-belonging' organised by University of Delhi | 18-20.03.2021            | "Between Reality and Fantasy: The Burma Stories of Indra Bahadur Rai"  |
|                 | Friday Colloquium Lecture Series organised by Centre for Himalayan Studies, NBU  | 12.03.2021               | "Memory as Agency in the Narratives by Women from the Nepali Civil War"  |
| Kaushani Mondal | Lecture at Salesian College, Siliguri  | 16.03.2021               | "What is the Post in Post-Graduation?"   |

#### Publications:

| Name        | Publication Details  | Year |
|-------------|--|------|
| Zinia Mitra | Fourth Wave Feminism: Social Media and (SI)Activism. <i>Kitaab International</i> | 2020 |

| Name         | Publication Details  | Year |
|--------------|--|------|
|              | The Concept of Motherhood in India: Myths, <i>Theories and Reality</i> , UK, Cambridge Scholars Publishing.  | 2020 |
|              | Sukumar Ray, Master of Science and Nonsense, Book: <i>Non-Sense and Sensibility : A Critical Study of Sukumar Ray's Abol Tabol</i> , Ed. Debaditya Chakraborty & Rajarshi Bagchi, Book Valle , Kolkata ISBN 798-93-83265-55  |      |
|              | Who says Language needs words? Book: <i>Newness and Difference in the Selected works of K. Satchidanandan</i> ' Kalyan Bharati ,Vol 36, no.XIV.ISSN -0976-0822   | 2021 |
|              | Illucutionary and Prelocutinary Acts in the 'Nunnery' Scene (III,i) of Shakespeare's Hamlet', <i>Teresian Journal of English Studies</i> , Vol XII, Issue III. ISSN-09756302   | 2020 |
|              | Personal Space? Women and Leisure: a Brief Appraisal, <i>Journal of Women's Studies</i> , Vol IX, ISSN-2320-3625   | 2020 |
|              | There's no place like home: from cultural plurality to convergence in remote heartbeats', <i>Text Special Issues</i> No. 60 ISSN: 1327-9556  | 2020 |
|              | We all are 'Siamese Twins'. <i>Teesta Review: An International Journal of Poetry</i> , Vol 3, No 1. ISSN: 2581-7094  | 2020 |
|              | Christina Houen, This Place You Know. <i>Journal of Writing and Writing Courses</i> , Vol 24, No. ISSN 1327 - 9556   | 2020 |
| Ranjan Ghosh | Trans(in)fusion: Reflections for Critical Thinking   | 2020 |
|              | Plastic Controversy, <i>Critical Inquiry</i> , University of Chicago Press   | 2021 |
|              | 'Whipping Homer, Cudgeling Shakespeare: Thinking Canon-Tradition', <i>Symploke</i> , Nebraska University Press   | 2020 |
|              | The Dharma of World Literature', in <i>Philosophy of World Literature</i> Ed. Jeffrey Di Leu, London: Bloomsbury   | 2020 |
| Binayak Roy  | "The Conflagration of Community": Amitav Ghosh's The Circle of Reason. <i>Postcolonial Text</i> , Vol 15, No 2, pp. 1-20, ISSN 1705-9100,  | 2020 |
|              | Exception, Precarity and the Possibility of Art: Amitav Ghosh's The Glass Palace. <i>Alterity Studies and World Literature, Special Double Issue, "Dealing with Precarity"</i> , Issues 2 & 3, ISSN 2209-2412, pp. 24-43   | 2020 |
|              | The Shadow Lines and the Dialogism of Adda, <i>Crossing the Shadow Lines: Essays on the Topicality of Amitav Ghosh's Modern Classic</i> . Ed. Esterino Adami, Carmen Concilio and Alessandro Vescovi. University of Turin, 2020. ISBN: 9788875901738. Pp. 141-156. | 2020 |



| <b>Name</b>     | <b>Publication Details</b>   | <b>Year</b> |
|-----------------|--|-------------|
|                 | “Not at Home in Empire”: Amitav Ghosh’s <i>The Glass Palace</i> . <i>Journal of Global Postcolonial Studies</i> . (Fall Issue). University of Florida Press, ISSN: 2643-8380 | 2020        |
| Kritika Chettri | Humility and the Humble: A Reading of the Nepali Short Stories of Maheshbikram Shah, <i>Short Fiction in Theory and Practice</i> , 10:2, pp. 191-207                         | 2020        |
| Sumit Ray       | <i>Crossing the Shadow Lines: Essays on the Topicality of Amitav Ghosh’s Modern Classic</i> . Ed. E. Adami, C. Concilio and A. Vescovi, University of Torino, Italy          | 2021        |

**Research Projects Details:**

| <b>Title of the Project</b>                                    | <b>PI</b>       | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Duration</b> | <b>Budget (Rs.)</b> |
|--|-----------------|---------------------|-------------------------|-----------------|---------------------|
| Translating Conflict in the Short Stories of Maheshbikram Shah | Kritika Chettri | NBU                 | 2020                    | 1 year          | 1,00,000            |

## DEPARTMENT OF HINDI

### About the Department:

The Department of Hindi, NBU was opened under the X<sup>th</sup> plan of U.G.C. in the year 2004. Since the University of North Bengal is geographically located in a multilingual zone, the Department therefore plays an important socio-cultural role as Hindi being bridge between various languages and cultures.

The Department of Hindi, NBU has a Seminar Library for the academic betterment of staff, research scholars and students. It has a wall magazine namely 'Chetna' which is a platform of literary expression of students. This wall magazine reflects the thought making efforts of students of the Department.

The Department of Hindi, NBU organizes monthly Departmental Seminars in which students of the Department are trained to orate in the guidance of teachers. Apart from these activities, the Department keeps watchful eyes on the all-round development of its students.

### Courses Offered:

- M. A.
- M. Phil.
- Ph. D.

### Research Focus:

- Contemporary Hindi Poetry
- Katha Sahitya
- Hindi alochana
- Hindi Kahani

### Student Strength:

| Course        | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|---------------|------|--------|-------|----|----|-------|-------|-----|
| M. A. Sem-I   | 10   | 25     | 35    | 08 | 03 | 02    | 08    | 14  |
| M. A. Sem-III | 04   | 32     | 36    | 05 | 08 | 03    | 03    | 17  |

### Faculty Details:

| Name                  | Qualification | Designation     | Email                       |
|-----------------------|---------------|-----------------|-----------------------------|
| Dr. Manisha Jha       | Ph. D.        | Professor       | manishajha@nbu.ac.in        |
| Dr. Sunil Kr. Dwivedi | Ph. D.        | Professor       | sunilkumardwivedi@nbu.ac.in |
| Dr. Manoj Biswakarma  | Ph.D.         | Asst. Professor | manojbiswakarma@nbu.ac.in   |

| Name                     | Qualification       | Designation                      | Email                      |
|--------------------------|---------------------|----------------------------------|----------------------------|
| Dr. Bijay Kumar Prasad   | M. Phil.,<br>Ph. D. | Asst. Professor<br>(Contractual) | bijayhcu2010@gmail.com     |
| Dr. Sachhidanand Kaushal | Ph. D.              | Asst. Professor<br>(Contractual) | kaushal.sachhida@gmail.com |

**Details of Non-Teaching Staff:**

| Name                    | Qualification | Designation                    |
|-------------------------|---------------|--------------------------------|
| Sri Samiran Chakraborty | B. Sc.        | Office Assistant (Contractual) |
| Smt. Jasinta Oraon      | VIII          | Sr. Peon                       |

**Details of Research Scholars:**

| Name             | Fellowship Status    | Supervisor's Name | Gender | Date of Joining |
|------------------|----------------------|-------------------|--------|-----------------|
| Durgawati Prasad | NBU Fellowship (SRF) | Dr. Manisha Jha   | Female | 08.08.2018      |

**Details of PhD Students (Without Fellowship):**

| Name                | Supervisor's Name     | Gender | Date of Admission in Ph.D. Course Work |
|---------------------|-----------------------|--------|--|
| Prashanta Sarkar    | Dr. Sunil Kr. Dwivedi | Male   | 23.09.2011                             |
| Pappujit Singh      | Dr. Sunil Kr. Dwivedi | Male   | 17.12.2013                             |
| Gautam Singh Rana   | Dr. Sunil Kr. Dwivedi | Male   | 29.12.2014                             |
| Chaturanan Jha      | Dr. Sunil Kr. Dwivedi | Male   | 01.12.2012                             |
| Emerencia Xalxo     | Dr. Manisha Jha       | Female | 29.12.2014                             |
| Pradip Kumar Thakur | Dr. Manisha Jha       | Male   | 29.12.2014                             |
| Pinky Jha           | Dr. Manisha Jha       | Female | 18.09.2017                             |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name              | Details  | Date       | Title of the Paper Presented     |
|-------------------|--|------------|----------------------------------|
| Prof. Manisha Jha | Refresher Course organised by the UGC – HRDC - University of Calicut | 16.11.2020 | Samkaleen Kavita Our Paryavaran. |

| Name                      | Details   | Date          | Title of the Paper Presented   |
|---------------------------|---|---------------|--|
| Prof. Sunil Kumar Dwivedi | Online Workshop organised by Kavayitri Bahinabai Chaudhary Uttar Maharashtra University, Jalgaon & Moolji Jaitha College, Jalgaon | 06.11.2020    | Hindi Ki Rashtriya Kavyadhara.   |
| Dr. Manoj Biswakarma      | National Seminar organised by Uttar Banga Hindi Granthagar  | 03-04.03.2021 | Patrakarita Evam Sanchar Madhayamon Mein Hindi Bhasha Ki Upyogita Evam Bhumika |
| Dr. Sachhidanand Kaushal  | International Webinar on Acharya Hazari Prasad Dwivedi : Srishti Evm Drishti organised by Ranchi University                       | 19-20.08.2020 | Acharya Hazari Prasad Dwivedi: Srishti Evm Drishti                             |

#### Details of Seminar/Conferences /Webinar Attended by Students:

| Name of the Student | Details   | Venue & Date  |
|---------------------|---|---------------|
| Emerencia Xalxo     | National Conference (Virtual)                               | 20-21.07.2020 |
| Pradip Kumar Thakur | International Webinar organised by Bhartiya Bhasha Parishad | 29.08.2020    |
| Goutam Singh Rana   | International Webinar organised by Asansol Girls College    | 12-13.09.2020 |

#### Publications:

| Name of the Author        | Publication Details  | Year |
|---------------------------|--|------|
| Prof. Manisha Jha         | Sau Varsh Baad Chhayavaad, Book: <i>Chhayavaad Ke Sau Saal</i> , New Delhi                         | 2021 |
| Prof. Sunil Kumar Dwivedi | Chhayavaad Ka Prakriti-Sandarbh Aur Mahatma Gandhi, <i>Anusandhan</i> , Vol. 15-16, ISSN-2249-9318 | 2020 |
|                           | Kaviguru Evam Mahatma Hone Ka Arth, <i>Hindi Anusheelan</i> , Vol. 2-3, ISSN-2249-930X             | 2020 |
|                           | Anishchitaton Ka "Juloos", <i>Lamahi</i> , Vol. 02, ISSN-2278-554X                                 | 2020 |
|                           | Dirghatapa : "Kalank Mukti" Ka Vibhram Ya Yatharth, <i>Banas</i> Vol. 41, ISSN-2231-6558           | 2021 |

| Name of the Author     | Publication Details   | Year |
|------------------------|---|------|
|                        | Katha-Prayukti Ka Vaikalpik Sansar: Renu Ki Kahaniyan, <i>Samvet</i> , Vol.17, ISSN-2321-6131   | 2021 |
|                        | Nabhikiya Vikiran Ka Vishpan Kar “Marang Goda Nilkanth Hua”, <i>Hindi Upanyas: Ek Vistrit Adhyayan</i> , ISBN- 978-93-88858-69-4        | 2020 |
| Dr. Bijay Kumar Prasad | Hindi Dalit Atmkathaon Main Stri Ki Samajik Sthiti, <i>Interdisciplinary Journal of Contemporary Research</i> , Vol. 07, ISSN-2393-8358 | 2020 |

## DEPARTMENT OF HISTORY

### About the Department:

The Department of History was established in the year 1964, just two years after the foundation of this University. The history of this Department is indeed decked with the contribution of many academicians, teachers, research scholars, students, non-teaching members, and others.

In 1965, with the initiative of Professor Pranab Kumar Bhattacharya, the then Head of the Department, a University level museum, primarily intended for collecting, preserving, and exhibiting objects of Indian art and antiquity, was founded and named after Akshaya Kumar Maitreya, the famous historian of the colonial period. It is one of the very few History Departments of our state which in its syllabus has well-delineated specializations pertaining to the ancient, medieval, modern and contemporary periods.

For more than five decades, this Department has produced able students, researchers, teachers, and a number of academicians who have received acclamation from every nook and corner of the country. Now the Department offers Post Graduate, M.Phil. and Ph.D. courses, besides, giving NET/SET coaching, remedial classes. The Department also conducts Study Tour every year for the fourth semester Post Graduate students. It has also received various seminar and research grants from UGC, ICSSR, etc. time to time. Significantly, it publishes a peer-reviewed and UGC approved journal, known as Karatoya. The Department has organized a number of special lecture programmes by eminent historians and academicians. From the year 2019, the Department has also initiated a monthly Faculty Lecture Programme with a view of sharing the research orientations of the in-house faculty members.

### Courses Offered:

- M. A.
- M. Phil.
- Ph. D.

### Research Focus:

- Early Medieval Indian History
- Diaspora Studies
- Social and Cultural History of Bengal
- Ancient Indian History
- Regional history
- Tribal History

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| MA     | 2021 | 38   | 40     | 78    | 32 | 9  | 9     | 11    | 17  |
|        | 2020 | 47   | 60     | 107   | 45 | 16 | 14    | 8     | 24  |

**Faculty Details:**

| Name                    | Qualification | Designation      | Email                        |
|-------------------------|---------------|------------------|------------------------------|
| Prof. B K Sarkar        | M.Phil, Ph.D. | Professor        | bksarkar58@nbu.ac.in         |
| Dr. Dahlia Bhattacharya | M.Phil, Ph.D. | Assoc. Professor | dahliahistory@nbu.ac.in      |
| Dr. Sudash Lama         | Ph.D.         | Assoc. Professor | lmasudash@nbu.ac.in          |
| Dr. Varun Kr. Roy       | M.Phil, Ph.D. | Asst. Professor  | varunkroy@nbu.ac.in          |
| Dr. Amrita Mondal       | M.Phil, Ph.D. | Asst. Professor  | amrita1mondal@nbu.ac.in      |
| Dr. Tahiti Sarkar       | M.Phil, Ph.D. | Asst. Professor  | tahitisarkar@nbu.ac.in       |
| Dr. Dipsikha Acharya    | Ph.D, PDF     | Asst. Professor  | dipsikhaacharya@nbu.ac.in    |
| Dr. Verma Priyadarshini | M.Phil, Ph.D. | Asst. Professor  | vermapriyadarshini@nbu.ac.in |

**Details of Non-Teaching Staff:**

| Name           | Qualification                     | Designation      |
|----------------|-----------------------------------|------------------|
| Sharmistha Das | B. Com, Diploma in Museum Studies | Senior Assistant |
| Somnath De     | M.P                               | Casual Gr. D     |

**Details of Seminar/Conferences /Webinar Organised:**

| Name of the Seminars/Conferences   | Date          |
|--|---------------|
| Webinar entitled "Adaptations and Challenges from Pre-Covid to Post COVID Era: A Crucial Juncture of Human History?" | 11-12.01.2021 |
| Webinar entitled "On Interpreting the Colonial and Post-colonial Economy in India"                                   | 22.01.2021    |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name            | Name of the Seminars/Conferences  | Date       | Title of the Paper Presented   |
|-----------------|---|------------|--|
| Dr. Sudash Lama | Re-Imagining Domains of Exclusions amid Covid-19: Virtual Classroom and Deprivation on Students of Marginal categories during the pandemic, organised by Darjeeling Govt. College | 19.11.2020 | Re-Imagining Domains of Exclusions amid Covid-19: Virtual Classroom and Deprivation on Students of Marginal categories during the pandemic |
|                 | Decoding Covid-19 and Allied Issues, organised by Islampur College  | 08.09.2020 | Alternative Education System and Tribal's Responses: Studying the impact of Covid-19 on education of Tribal Students of West Bengal        |

| Name                    | Name of the Seminars/Conferences  | Date                  | Title of the Paper Presented   |
|-------------------------|---|-----------------------|--|
|                         | Role of law in the globalized World, organised by UGC-HRDC-NBU  | 27.11.2020            | Resource Person  |
| Dr. Varun Kumar Roy     | The impact of covid pandemic on mental health well being : lessons to be learned, organised by Gorubathan Govt College                              | 03.11.2020            | Resource Person  |
| Dr. Tahiti Sarkar       | Man- Nature Through the Lens of Eco-criticism, organised by University of Delhi   | 06.11.2020            | British Forest Policy and Everyday Resistances Of People: An Overview Of Colonial Darjeeling |
|                         | History of bengal from micro to macro, organised by Manikchak College, Malda<br>24 <sup>th</sup> & 25 <sup>th</sup> July, 2020.                     | 24-<br>25.07.2020     | Attended   |
|                         | Disease, medicine & healthcare in our country: colonial & indigenous encounters, organised by Khejuri College, Medinipur                            | Sept, 2020            | Attended   |
|                         | Refresher Course in History, by UGC-HRDC-NBU  | 2020                  | Attended   |
|                         | Workshop on recent trends in modern indian history: society, economy, and polity  | 2020                  | Attended   |
| Dr. Dipsikha Acharya    | Seven Days online lecture Series in History, organised by Raghunathpur College  | 25-<br>31.08.2020     | Archaeology, Museum, Conservation: Pillars for Preserving Cultural Heritage                  |
| Dr. Verma Priyadarshini | Online Workshop on Research Methodology and Publication Ethics, organised by Jawaharlal Nehru University  | 22-<br>23.10.20<br>20 | Attended   |
|                         | Online FacultyDevelopment Programme on ICT enhanced teaching learning and creating MOOCs, organised by Shivaji College and Ramanujan College, Delhi | 18-<br>25.08.2020     | Attended   |



| Name | Name of the Seminars/Conferences  | Date                     | Title of the Paper Presented |
|------|---|--------------------------|------------------------------|
|      | Lecture series on Gendered Society, organised by Mahatma Gandhi Central University  | 29-30.07.2020            | Attended                     |
|      | International Webinar on “Rise and Fall of Buddhism in Central Asia”, organised by Central University of Himachal Pradesh in collaboration with International Buddhist Confederation, -New Delhi                  | 07.07.2020               | Attended                     |
|      | Webinar on "Cultural Dialogue in South Asia and Beyond: Narratives, organised by Jesus and Mary College, Delhi  | 30.07.2020               | Attended                     |
|      | International Online Workshop on research methods and approaches to migration and diaspora studies, organised by Central University of Gujarat in collaboration with University of East London, U.K.              | 30.06.2020 to 02.07.2020 | Attended                     |
|      | National Webinar on Pandemic Perspectives: Echoes from the Past to Present, organised by Central University of Himachal Pradesh in collaboration with Thakur Jaidev Chand Smriti Shoah Sansthan, Himachal Pradesh | 06.06.2020               | Attended                     |
|      | Webinar on "Colonialism and History of Epidemics: Lessons from the Past", organised by Jesus and Mary College, Delhi  | 08.06.2020               | Attended                     |

**Publications:**

| Name of the Author(s)                | Publication Details   | Year |
|--------------------------------------|---|------|
| Dr. Dahlia Bhattacharya              | Gandji's Visit to Burma : Understanding the Burmese Resistance against Colonialism and Imperialism (1902-1029). <i>An Interdisciplinary Journal of History</i> . Vol-20. No-20.   | 2020 |
|                                      | A Step towards Liberation : re-visiting the English writing of Begum Rokeya, <i>Journal of Women's Studies</i> , Volume- IX University of North Bengal, CWS   | 2020 |
|                                      | Bengali Revolutionaries and Burma: Swadeshi, Boycott and Extremism, <i>In Tribute to An Icon Essays in Memory of Prof. D.P. Sinha</i> . Sagnik Books  | 2020 |
|                                      | Taming the Mind: Women in the Lunatic Asylums of Colonial Bengal, <i>Journal of Women's Studies</i> , Volume- X University of North Bengal, CWS   | 2021 |
| Dr. Sudash Lama & Dr. John B. Tirkey | Academic Performance of the Scheduled Tribe students in West Bengal, Book: <i>Social Inclusion and Education in India, Scheduled Tribes, Denotified Tribes and Nomadic Tribes</i> , Routledge, Taylor & Francis Group, pp 85-99 | 2020 |
| Dr. Sudash Lama & Prasenjit Roy      | Akshay Kumar Maitreya and his scholastic World, <i>Journal of People's History and Culture</i> , Vol. 6, No.2   | 2020 |
| Dr. Sudash Lama & Badal Roy          | A Survey of Obsolete Traditional Games and Sports of North Bengal: A Historical perusal, <i>South Asian Anthropologist</i> , Vol 20, No 2   | 2020 |
| Dr. Sudash Lama                      | The Dynamics of Religious Transformation of the Tamang Community of the Sub-Himalaya: Historical Perspective, <i>Karatoya</i> , Vol. 14   | 2021 |
| Dr. Varun Kumar Roy                  | The Magh Raiders and the Mughals in the First half of 17 <sup>th</sup> Century, <i>Karatoya</i> , Vol. 14   | 2021 |
|                                      | Growth and Evolution of Administrative space in Provincial Bengal(Circa1757-185), <i>International Journal of Integrated Research and Development</i>   | 2020 |
|                                      | A New Urban Space in Medieval Bhagalpur: The Study of the Growth of Markets, <i>International Journal of Integrated Research and Development</i>  | 2021 |
|                                      | Land and Water communication in 18 <sup>th</sup> Century colonial Bengal, <i>Journal for Social Development</i> , Vol. 13, No. 4  | 2021 |
|                                      | Urbanisation in bhagalpur under the mughals, in Book, N.L.Publishers  | 2021 |
| Dr. Tahiti Sarkar                    | British Forest Policy and Everyday Resistances of People: An Overview of Colonial Darjeeling, <i>Journal of</i>   | 2020 |

|  |  |      |
|--|--|------|
|  | <i>People's History and Culture</i> ISSN: 2395-7379, Vol. VI, No. 2  |      |
| Dr. Dipsikha Acharya and Bidhan Halder | A Note on a Hitherto Unpublished Votive Tablet from Abhana/ Avana in the District of Balasore, Odisha', <i>Journal of Bengal Art</i> , Vol 25, pp 809-818.   | 2020 |
| Dr. Dipsikha Acharya                   | The Major Schools of Post-Gupta Developments in Southern India - The Pallava, Chola and Hoysala Styles'. Volume VIII Sculpture, Painting, Terracottas, Performing Arts and Architecture, Series: <i>History of Ancient India</i> (Ed. Dilip K. Chakrabarti), New Delhi: Aryan Books International, Page Nos: 257-310 | 2020 |
|  | 'Forms of the Stupas'. Volume VIII Sculpture, Painting, Terracottas, Performing Arts and Architecture, Series: <i>History of Ancient India</i> (Ed. Dilip K. Chakrabarti), New Delhi: Aryan Books International, Page Nos 641-668  | 2020 |

#### Research Projects Details:

| Title of the Project  | Sponsored by | Year of Sanction | Project Budget |
|---|--------------|------------------|----------------|
| Serampore Mission and Promotion of Scientific Temperament in Bengal, 1800-1840  | NBU          | 2019             | 1,00,000/-     |
| British forest policy in Darjeeling (1865-1947): identifying colonial roots of environmental history in the eastern himalayas." | NBU          | 2020             | Rs. 1,00000/-  |

## DEPARTMENT OF LAW

### About the Department:

The journey of the Department of Law began in 1974 as University Law College and was housed in the building of Art. In the year 2000 it was upgraded to the status of a Department of North Bengal University. The Department is now located in the South Campus of the North Bengal University and has an independent building of its own with a sprawling and exclusive campus.

The North Bengal University is one of the six Universities in the State of West Bengal imparting legal education and covers the entire region of the state and the Eastern and North Eastern region of India. This Institution has also the reputation of attracting students from the neighbouring countries like Bangladesh, Bhutan and Nepal.

The Department aims at education that brings forth academic excellence, provides opportunities to nurture all round development of the young personality, stimulate and develop creative thoughts in them, so that they may become worthy citizens of India caring for others, ensuring justice to the tortured and having a sense of duty and responsibility to the society. It introduces students to a wider world of experience and a larger sphere of activities, cooperation with their fellowmen and inculcates habits of order, sense of responsibility and accuracy.

### Courses Offered:

- B.A. LL. B. (Hons.)
- LL. M.
- M. Phil.
- Ph. D.

### Research Focus:

- Human Rights
- Constitutional and Administrative Law
- Refugee and Immigration Law
- Public International Law
- Procedural Laws
- Cyber Laws
- Corporate Law
- Jurisprudence

### Student Strength:

| Course | Year    | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|---------|------|--------|-------|----|----|-------|-------|-----|
| LLB    | Sem I   | 182  | 264    | 446   | 91 | 30 | 52    | 27    | 246 |
|        | Sem III | 167  | 248    | 415   | 89 | 31 | 42    | 24    | 229 |
|        | Sem V   | 145  | 211    | 356   | 79 | 28 | 27    | 15    | 207 |
|        | Sem VII | 149  | 219    | 368   | 86 | 30 | 25    | 19    | 208 |
|        | Sem IX  | 129  | 223    | 352   | 83 | 31 | 10    | 07    | 221 |
| LLM    | Sem I   | 14   | 20     | 34    | 7  | 3  | 1     | 4     | 19  |
|        | Sem III | 2    | 11     | 13    | 2  | 1  | 0     | 1     | 9   |

**Faculty Details:**

| <b>Name</b>                 | <b>Qualification</b> | <b>Designation</b> | <b>Email</b>                         |
|-----------------------------|----------------------|--------------------|--------------------------------------|
| Prof. Gangotri Chakraborty  | PhD                  | Professor and HoD  | gangotrichakraborty@gmail.com        |
| Prof. Rathin Bandyopadhyay  | PhD                  | Professor          | rathinbanerjee@gmail.com             |
| Dr. Sujit Kumar Biswas      | PhD                  | Assoc. Professor   | sujitkbiswas@yahoo.com               |
| Ms. Prerna Lepcha           | LLM                  | Asst. Professor    | prernalepcha18@nbu.ac.in             |
| Ms. Neelam Lama             | LLM                  | Asst. Professor    | neelamlama@nujs.edu                  |
| Dr. Sangeeta Mandal         | PhD                  | Asst. Professor    | sangeetanbu@gmail.com                |
| Dr. Sanyukta Moitra         | PhD                  | Asst. Professor    | sanyuktamoitra@gmail.com             |
| Dr. Soma Dey Sarkar         | PhD                  | Asst. Professor    | somadsarkar45@gmail.com              |
| Dr. Chandrani Chatterjee    | PhD                  | Asst. Professor    | chandranidc@gmail.com                |
| Dr. Dipankar Debnath        | PhD                  | Asst. Professor    | ddnslg@rediffmail.com                |
| Mr. Shubhajit Bhattacharjee | LLM                  | Asst. Professor    | subhajitrupam94@gmail.com            |
| Dr. Sanjay Dutta            | PhD                  | Asst. Professor    | sanjaydutta.slg@gmail.com            |
| Ms. Taniya Basu Majumdar    | MA                   | Asst. Professor    | taniyabasu2014@gmail.com             |
| Mr. Shubhajeet Shome        | MA                   | Asst. Professor    | shubhajeet.777@gmail.com             |
| Ms. Suparna Bandyopadhyay   | LLM                  | Teaching Asst.     | suparnabandyopadhyay21@gmail.com     |
| Ms. Sagnika Das             | LLM                  | Research Asst.     | sagnika.mtb10@gmail.com              |
| Ms. Ashima Rai              | LLM                  | Research Asst.     | ashimairai1993@gmail.com             |
| Ms. Upala Basu              | LLM                  | Research Asst.     | basu.upala4@gmail.com                |
| Ms. Sukanya Kar             | MA                   | Guest Faculty      | sukanyakar@outlook.com               |
| Ms. Nabonita Roy            | -                    | Guest Faculty      | nabonita24roy@gmail.com              |
| Mr. Bijoy Saha              | LLB                  | Guest Faculty      | bs62943@gmail.com                    |
| Mr. R.K Agarwal             | LLM                  | Guest Faculty      | naresh294@yahoo.co.in                |
| Mr. Rahul Mishra            | LLB                  | Guest Faculty      | rahul.lawyer@gmail.com               |
| Mr. Deepak Sharma           | LLB                  | Guest Faculty      | deepaksharma_advocate@rediffmail.com |

**Details of Non-Teaching Staff:**

| <b>Name</b>           | <b>Qualification</b> | <b>Designation</b> |
|-----------------------|----------------------|--------------------|
| Mr. Arunava Choudhury | B.Com                | Sr. Superintendent |

| <b>Name</b>         | <b>Qualification</b> | <b>Designation</b>             |
|---------------------|----------------------|--------------------------------|
| Mr. Samir Kr. Roy   | M. Sc., PGDIT        | Technical Assistant Gr-III     |
| Mr. Santanu Chanda  | M.Sc. MLIS           | Assistant Librarian(Sr. Scale) |
| Mr. Bachchu Ch. Dey | Class VIII Pass      | Sr. Peon                       |
| Mr. Babla Nag       | M.A.                 | Sr. Assistant                  |
| Mr. Bhaskar Pal     | B.Com                | Casual Gr-III Employee         |
| Mr. Anjan Choudhury | Class VIII Pass      | Sr. Peon                       |
| Mr. Bechan Mallick  | Class IX Pass        | Gr-D Casual Employee           |
| Ms. Mithu Dhar      | Class IX Pass        | Man-days Group –IV Employee    |

#### **Details of PhD Students (Without Fellowship):**

| <b>Name</b>           | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Admission in Ph.D. Course Work</b> |
|-----------------------|--------------------------|---------------|---|
| Pranay Rai            | Prof. R Bandyopadhyay    | Male          | 20.05.2012                                    |
| Sudeshna Das          | Prof. R Bandyopadhyay    | Female        | 24.12. 2018                                   |
| Veerendra Mohan       | Prof. R Bandyopadhyay    | Male          | 03.05.2015                                    |
| Joyjit Chowdhury      | Prof. R Bandyopadhyay    | Male          | 03.01.2019                                    |
| Upala Basu            | Prof. R Bandyopadhyay    | Female        | 01.01.2020                                    |
| Ruchita Chakraborty   | Prof. G Chakraborty      | Female        | 18.09.2017                                    |
| Indrani Kundu         | Prof. G Chakraborty      | Female        | 19.09.2017                                    |
| Shruti Kejriwal       | Prof. G Chakraborty      | Female        | 03.01.2019                                    |
| Hillol Poddar         | Prof. G Chakraborty      | Male          | 02.01.2019                                    |
| Prerna Lepcha         | Prof. G Chakraborty      | Female        | 03.01.2019                                    |
| Sagnika Das           | Prof. G Chakraborty      | Female        | 01.01.2020                                    |
| Suparna Bandyopadhyay | Prof. G Chakraborty      | Female        | 01.01.2020                                    |
| Ms.Ashima Rai         | Dr. S K Biswas           | Female        | 01.01.2020                                    |
| Ms.Champa Mondal      | Dr. S K Biswas           | Female        | 01.01.2020                                    |

#### **Details of Seminars/Conferences/Webinar Organized:**

| <b>Name of the Seminar/Conference/ Webinar</b>   | <b>Date</b> | <b>Number of Participants</b> |
|--|-------------|-------------------------------|
| Webinar on COVID 19 & Human Trafficking<br>Amplified Impact on Vulnerable Children & Adolescents,<br>Organized by UNICEF and School of Media, Communication and<br>Culture, Jadavpur University and Centre for Child Rights,<br>Department of Law, NBU | 17.11.2020  | 200                           |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>           | <b>Details of Seminars/Conferences</b>   | <b>Date</b>      |
|-----------------------|--|------------------|
| Prof. G Chakraborty   | International Virtual Workshop on Dynamics of Gender Justice and Violence Against Women: Issues, Challenges and Remedies, Organised by Sexual Harassment Prevention Cell, Bankura University                                   | 13-14.09.2020    |
|                       | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU | 17.11.2020       |
|                       | Legal Awareness Camp organised at Dhantala Village, Kranti, Dist: Jalpaiguri under the aegis Padmashree Karimul Hak popularly known as Bike Ambulance Dada in collaboration with the NGO Sarathi                               | 10.1.2021        |
|                       | Webinar on Sexual Harassment at Work Place organised by ICC, Sikkim University   | 16.03.2021       |
| Prof. R Bandyopadhyay | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU | 17.11.2020       |
|                       | National E-Seminar on Immigration and Crimigration: Issues and Challenges, organised by Symbiosis Law School, Hyderabad  | 31.05.2020       |
|                       | Six weeks programme on Psychology and Mental Health, organised by University of Liverpool, U.K   | Apr to May, 2020 |
| Dr. S K Biswas        | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU | 17.11.2020       |
| P Lepcha              | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU | 17.11.2020       |

| <b>Name</b>  | <b>Details of Seminars/Conferences</b>   | <b>Date</b>  |
|--------------|--|--|
|              | Webinar on Domestic Violence During Lockdown: An Invisible Pandemic? , organised by The Indian Law institute, New Delhi & Association of Indian Law Institute Alumni   | 10.06.2020   |
| N Lama       | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU | 17.11.2020   |
|              | International E-Seminar on Protection of Human Rights in the Era of Globalization: Contemporary Issues and Challenges, organised by Geeta Institute of Law (GIL), Panipat  | 03.02.2021   |
|              | Fourth International Conference (Webinar) on Mother Earth (ICME-IV-2020), organised by University of Burdwan   | 27-29.08.2020  |
|              | International Seminar on Reimagining the World Post COVID19 Pandemic, organised by Maharashi Dayanand University, Rohtak   | 29.06.2020   |
|              | One Day Webinar on Biodiversity: Concept ,Conservation and Challenges, organised by NBU  | 13.09.2020   |
|              | National Webinar on Labour Law Reforms in India in Post COVID -19 era, organised by Dr. Ram Manohar Lohiya National Law University, Lucknow  | 22.08.2020   |
|              | Shedding Stigma on Mental Health Issues for Legal Professionals, organised by International Justice Mission, Kolkata and School of Law and Justice, Adamas University  | 25.07.2020   |
|              | International Webinar on Gender Issues and Women's Rights, organised by Acharya Sukumar Sen Mahavidyalaya, Purba Bardhaman and Birpara College, Alipurduar   | 20-21.07.2020  |
|              | Dr. S Mandal   | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU |
| Dr. S Moitra | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU | 17.11.2020   |



| Name | Details of Seminars/Conferences   | Date              |
|------|---|-------------------|
|      | National Webinar on Intellectual Property Rights: Dynamics of Copyright Laws and Emerging Challenges, organised by Salesian College, Siliguri   | 24.08.2020        |
|      | COVID 19 and the Constitution : With Special Reference to Article 21, organised by The ICFAI University and Sikkim School of Legal Studies  | 09.06.2020        |
|      | Impact of COVID- 19 on various Areas of Global Economy, Science & Humanities, organised by Gondwana University, Gadchirali; Mahila Mahavidlaya, Amravati; Chintamani College of Commerce, Pombhura              | 24-<br>25.06.2020 |
|      | Domestic Violence During Lockdown: An Invisible Pandemic, organised by The Indian Law Institute, New Delhi & Association of Indian Law Institute Alumni   | 10.06.2020        |
|      | International Webinar on Exploring and Understanding COVID-19 , organised by Bhavan’s Mehta Postgraduate College, UP  | 30-<br>31.05.2020 |
|      | International Webinar on Migrants and Displaced Persons amid COVID-19 : Issues,Challenges and Policy Options, jointly organised by Mahatma Gandhi University, Kerala, FLAME University, Pune & GRFDT, New Delhi | 15-<br>17.10.2020 |
|      | Three –Day International Web-Workshop on Dynamics of Gender Justice and Violence Against Women: Issues, Challenges and Remedies, organised by the Sexual Harassment Prevention Cell, Bankura University         | 3-<br>5.10.2020   |
|      | International Conference on Traditional and Non-Traditional Security Challenges amid COVID- 19: Threats and Responses, organised by South Indian Scholars’ Group of International Studies                       | 25-<br>26.09.2020 |
|      | International e- conference on The Challenges and Rehabilitation Avenues in the Context of COVID -19, organised by Madurai Kamaraj University   | 12-<br>14.08.2020 |
|      | Three Day International Webinar on COVID – 19 : Restructuring of Domestic and International Politics?, organised by Bankura University  | 27-<br>29.07.2020 |
|      | Assessing Human Rights Protection amid COVID-19 and Beyond, organised by MNLU   | 25.07.2020        |
|      | National Webinar on Intellectual Property Rights - Emerging Issues and Challenges, organised by RVR College of Arts and Science, AP   | 14.07.2020        |

| <b>Name</b>      | <b>Details of Seminars/Conferences</b>   | <b>Date</b>                    |
|------------------|--|--------------------------------|
|                  | Two-Day Webinar on Migrant Workers and Urban Governance: Responsibilities of Urban Local Bodies and Human Rights, organised by National Law School of India University in Association with Directorate of Municipal Administration Government of Karnataka     | 03-04-04.2020                  |
|                  | Webinar on Shedding Stigma on Mental Health Issues for Legal Professionals, organised by International Justice Mission, Kolkata and Adamas University  | 25.07.2020                     |
|                  | National Webinar on Impact of COVID-19 on Women Migrant Worker:A Study on Labour Law Reform, organised by ICFAI University, Sikkim School of Legal Studies   | 13.07.2020                     |
|                  | National Webinar on Labour Reforms in India in Post COVID -19 era, organised by Dr. Ram Manohar Lohiya National Law University, Lucknow  | 22.08.2020                     |
|                  | International Web Conference on Pandemic Effect and Global Economy: Unseen Challenges & Opportunities Post COVID-19 Diagnosis, organised by Amity University, Patna  | 31.07.2020<br>to<br>01.08.2020 |
|                  | One Day Webinar on Right to Information : Practice and Procedure, organised by National School of India University   | 05.08.2020                     |
|                  | A Five Day Online Faculty Programme under the UGC – Stride Project on Climate Change and Environment Legal Protection, organised by Central University of Tamil Nadu   | 7-11.09.2020                   |
|                  | One Day National Webinar on Plurality of Gendered Experiences- Biases, Stereotypes and Rights, Issues and Challenges with Special Reference to COVID-19, organised by Maynaguri College ,West Bengal in Collaboration with Darjeeling District Legal Aid Forum | 28.08.2020                     |
| Dr. S Dey Sarkar | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU                                 | 17.11.2020                     |
|                  | Dynamics of Gender Justice and Violence Against Women: Issues, Challenges and Remedies, organised by Bankura University  | 03-05.10.2020                  |
| Dr. C Chatterjee | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur  | 17.11.2020                     |

| Name | Details of Seminars/Conferences  | Date          |
|------|--|---------------|
|      | University and Centre for Child Rights, Department of Law, NBU   |               |
|      | One Day International Webinar on Human Rights of Migrant Labourers in COVID -19: Indian Scenario, organised by Centre for Advanced Studies in Labour Welfare and Centre for Advanced Studies in Human Rights in Collaboration with Think India | 06.07.2020    |
|      | Webinar on Concerns of Historians and Journalists on Pandemic: Past and Present, organised by Bethune College  | 01.08.2020    |
|      | Webinar in Justice V.R.Krishna Iyer Memorial Public Lecture on How Concurring Opinion Matters?, organised by NLUO  | 09.08.2020    |
|      | One Day International Webinar on Good Faith In Contractual Performance, organised by Law College Dehradun  | 05.08.2020    |
|      | Participated One Day International Webinar on Good Faith In Contractual Performance, organised by Law College Dehradun   | 05.08.2020    |
|      | Participated National Webinar on “ Valuation Profession in Post COVID Era- Issues and Challenges, organised by University of Kalyani in association with Institution of Estate Managers and Appraisers   | 01.08.2020    |
|      | Three Day International Webinar on COVID-19: Restructuring of Domestic and International Politics, organised by Department of Political Science, NBU   | 27-29.07.2020 |
|      | National Webinar on Contours of Judicial Appointment in India: Journey through Constitutional Amendment, organised by Hindi Vidya Prachar Samiti’s College of Law  | 08.08.2020    |
|      | Webinar on Artificial Intelligence: A Conceptual Contour, organised by ICFAI Law School, Hyderabad   | 31.07.2020    |
|      | One Day Webinar on Personal Income Tax Planning: A Comparative Analysis on Existing and New Tax Regime, organised by Katwa College   | 04.08.2020    |
|      | National Webinar on The COVID-19 Economic Crisis, organised by Maulana Azad College, Kolkata   | 31.07.2020    |
|      | One Day International Webinar on COVID-19 Pandemic and Environment, organised by S. R. Fatepuria College   | 12.07.2020    |
|      | One Day National Webinar on Pandemic and Natural Disasters: Understanding and Coping, organised by St Xavier’s College (Autonomous), Kolkata   | 11-12.07.2020 |
|      | Participated One Day International Webinar on Food and Nutrition Vs. COVID-19, organised by University of Kalyani  | 24.07.2020    |

| Name | Details of Seminars/Conferences   | Date          |
|------|---|---------------|
|      | One Day International Webinar on Whose Lives Matter? Contextualizing Racial & Ethnic Discrimination, organised by Loreto College, Kolkata   | 08.08.2020    |
|      | One Day National Webinar on COVID-19 Pandemic: It's Legal impact and Lessons for the Future, jointly organised by University of Jammu and Maharashtra National Law University       | 17.09.2020    |
|      | Webinar on Protection of Gender Rights, organised by Maharashtra National Law University  | 23.08.2020    |
|      | Three Day International Webinar Dynamics of Gender Justice and Violence Against Women Issues, Challenges and Remedies”, organised by Bankura University                             | 03-05.10.2020 |
|      | National Webinar on Intellectual Property Rights: Dynamics of Copyright Law and Emerging Challenges, organised by Salesian College, Siliguri  | 24.08.2020    |
|      | One day State Level Webinar on Online Teaching- Learning in Neo- Normal : A Challenge, organised by Chandidas Mahavidyalaya, Birbhum  | 03.09.2020    |
|      | National Webinar on Labour Law Reforms in India in Post COVID -19 Era, organised by Dr. Ram Monohar Lohiya National Law University  | 22.08.2020    |
|      | National Webinar on Understanding Helath Insurance and COVID Covers, organised by NBU   | 19.08.2020    |
|      | One Day National Webinar on COVID 19 and the Fixation of Liability under International Law, organised by Bankura University   | 20.08.2020    |
|      | National Webinar on Sino- Indian Relations: Historical Perspective and Contending Contemporary Dynamics, jointly organised by Saheed Kshudiram College, Kamakhyaguri, Malda College | 19-20.08.2020 |
|      | One Day State Level Webinar on Society and Politics in 21 <sup>st</sup> Century India, organised by Sudhirranjan Lahiri Mahavidyalaya, Majdia                                       | 08.08.2020    |
|      | International Webinar on History of Pandemics and its multifaceted impact on the global world, organised by Prafulla Chandra College  | 10-11.08.2020 |
|      | One Day National Webinar on Corporate Governance: Issues and Challenges, organised by Government Centre of Legal Education in Collaboration with Hoogly Mohsin College              | 03.08.2020    |

| <b>Name</b>   | <b>Details of Seminars/Conferences</b>   | <b>Date</b>   |
|---------------|--|---------------|
|               | International Webinar on Environmentalism: Issues of sustainability and Public Participation, organised by Prafulla Chandra College  | 08.08.2020    |
|               | One Day International Webinar on Human Rights of Migrant Labourers In COVID -19: Indian Scenario, organised by Centre for Advanced Studies in Labour Welfare and Centre for Advanced Studies in Human Rights in Collaboration with Think India | 06.07.2020    |
| Dr. D Debnath | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, organised by Jadavpur University and Centre for Child Rights, Department of Law, NBU    | 17.11.2020    |
|               | Law And Correctional administration in India amidst COVID 19, organised by ICAFI Law School, Hyderabad   | 21.06.2020    |
|               | COVID-19Pandemic: Managing the Labour Laws in India, organised by Dr. Ram Manohar Lohiya National Law University   | 13.06.2020    |
|               | Changing Dynamic of Technology Transfer in IP-Pre and Post Pandemic Scenario, organised by ICAFI Law School, Hyderabad   | 20.06.2020    |
|               | COVID-19: Emerging Cyber Threats, Psychological Dimensions and the way forward for students, organised by St. Xaviers University, Kolkata  | 26.06.2020    |
|               | International Health Law during COVID-19: A Perspective, Law Society, organised by Aligarh Muslim University   | 12.08.2020    |
|               | Labour Law in post COVID era, organised by National Law University, Lucknow  | 22.08.2020    |
|               | Growing Menace of E-Fraud on Online Shopping and the Protective Masks Available Under the Consumer Protection Act, 2019: A Study Of The Relevant Provisions of the Act, organised by Manipal University, Rajasthan                             | 10-11.05.2020 |
|               | Analysis of The Violation of Basic Human Rights of the Migrant Workers in India During Pandemic COVID-19, organised by International Council of Jurists, London and Apeejay Styra University   | 12.07.2020    |
|               | Climate Justice in India Since Independence and the Contribution of Indian Women in an Unequal Society, organised by Bankura University  | 03-04.10.2020 |

| <b>Name</b>     | <b>Details of Seminars/Conferences</b>  | <b>Date</b> |
|-----------------|---|-------------|
| S Bhattacharjee | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, organised by Jadavpur University and Centre for Child Rights, Department of Law, NBU | 17.11.2020  |
|                 | An International Webinar on Future of Basic Structure & Essential Features Doctrine, organised by ICFAI University, Dehradun  | 27.08.2020  |
|                 | A Webinar On Murder Trial 101, organised by Lex Macula  | 30.08.2020  |
|                 | A Webinar on Indian Constitution by Pratap Bhanu Mehta, organised by IISER, Pune  | 09.01.2021  |
| Dr. S Dutta     | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU              | 17.11.2020  |
| T Basu Majumdar | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU              | 17.11.2020  |
| S Shome         | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU              | 17.11.2020  |

**Details of Seminar/Conferences /Webinar Attended by Students:**

| <b>Name</b>     | <b>Details</b>   | <b>Date</b> |
|-----------------|--|-------------|
| S Bandyopadhyay | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU | 17.11.2020  |

| <b>Name</b> | <b>Details</b>  | <b>Date</b>   |
|-------------|---|---------------|
| S Das       | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU  | 17.11.2020    |
| A Rai       | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU  | 17.11.2020    |
| A Rai       | A National Conference on Conflict, Conservation, Coexistence, organised by Kasturba Medical College, Manipal  | 20-21.08.2021 |
| A Rai       | One-day webinar on Teachers' role in National Education Policy 2020 Implementation: Awareness, Orientation, Challenges and response with special theme on Legal Education for Responsible Citizenship Media, organised by LUJA, Assam with NITI Aayog and Bharatiya Shikshan Mandal | 13.03.2021    |
| U Basu      | COVID 19 & Human Trafficking Amplified Impact on Vulnerable Children & Adolescents organised by UNICEF and School of Media, Communication and Culture, Jadavpur University and Centre for Child Rights, Department of Law, NBU  | 17.11.2020    |
| U Basu      | One day National Webinar on COVID – 19 and the fixation of liability under International Law, organised Bankura University  | 20.08.2020    |
| U Basu      | Three-Day International Web Workshop on Dynamics of Gender Justice and Violence against Issues, Challenges and Remedies, organised by Bankura University  | 05.10.2020    |

**Publications:**

| <b>Name of the Author</b>  | <b>Publication Details</b>  | <b>Year</b> |
|----------------------------|---|-------------|
| Prof. Rathin Bandyopadhyay | Combating Climate Change and Global Warming: Issues, Challenges and Legal Initiatives; Book: <i>Climate Change</i> , Tayler and Francis | 2020        |

| <b>Name of the Author</b> | <b>Publication Details</b>  | <b>Year</b> |
|---------------------------|---|-------------|
| Dr. Sujit Kumar Biswas    | <i>Indian Journal of Law &amp; Justice</i> , Vol.12 No.01   | 2021        |
| Neelam Lama               | Water and Women's Right in India: An Eco feminist Approach, <i>Indian Journal of Law and Justice</i> Vol.12 No.01   | 2021        |
|                           | Shielding Witnesses in India<br>Journal of Global Research and Analysis Vol 9 (1) ISSN : 22786775   | 2020        |
| Dr. Sanyukta Moitra       | Anti-Beggary Legislations in India: Challenges and Prospects, ISBN No.9788194484356, International e-Conference on <i>The Challenges and Rehabilitation Avenues in the context of COVID-19</i>  | 2020        |
|                           | Addressing Domestic Abuse of Women amidst COVID-19 Pandemic: A Human Rights Perspective, <i>GIBS Law Journal</i> , Vol 3 No. 1, ISSN 2582-7529  | 2021        |
|                           | <i>Intellectual Property Rights: Dynamics of Copyright Laws and Emerging Challenges</i> , ISBN : 9789 3822 16285  | 2021        |
|                           | Children's Right to Food in India: A Scoping Review India, <i>International Journal of Juridical Sciences</i> ISSN No. 2278-3237  | 2021        |
| Dr. Soma Dey Sarkar       | <i>Citizenship in India and Refugee Problem</i> , First Ed.<br>ISBN: 978-93-90818-02-0  | 2021        |
| Dr. Chandrani Chatterjee  | Patriarchy and The Women Status in Indian Society, <i>JCC Law Review</i> , ISSN: 2231 296X  | 2021        |
| Dr, Dipankar Debnath      | The Surrogacy (Regulation) Bill, 2020: A Critical Analysis of the Provisions in the Light of Procreative Choice of Surrogate Mother to Use Her Agency, 2020, <i>International Journal of Creative Research Thought</i> , Vol. 8, Issue, 5 | 2020        |
|                           | Anonymity v. Real Name: Anonymity as a Tool of Privacy and A Gateway of Freedom of Speech and Expression on Social Media, <i>Legal Service India</i> . E-Journal  | 2020        |
|                           | An Analysis of the Violation of Basic Human Rights of the Migrant Workers in India During Pandemic COVID-19, Book: <i>Contemporary Legal Issues and Challenges</i> , Black Aviat Group, ISBN: 978-81-946558- 3-1                          | 2020        |
| Shubhajit Bhattacharjee   | Constitution and Constitutionalism in times of COVID pandemic in India: <i>NAM Today</i> , Vol. LXXXVI, ISSN 2347-3193  | 2020        |
|                           | Child Rights, Its various measures and mechanism in Indian context, <i>International Journal of Law Management &amp; Humanities</i> , Vol. III Issue V  | 2020        |



| Name of the Author | Publication Details  | Year |
|--------------------|--|------|
|                    | Rule of Presumption in decision making process in India, <i>Legal Pedia India</i> Vol. 3 Issue 1, ISSN NO. 2581-7949   | 2020 |
|                    | Plea- Bargaining: Examining its scope and ambit in Indian Context, <i>Journal on Contemporary Issues of Law</i> , Vol.VI, Issue 10, ISSN 2455-4782   | 2020 |
|                    | Book Review of Rohit De's A People's Constitution, <i>Indian Journal of Law and Justice</i> , Vol 1, ISSN No- 0976-3570  | 2021 |
| Ms Upala Basu      | An Analysis on Article 44 of the Indian Constitution: A Dormant Instrument in Active Secularism, Book: <i>Constitutionalism and Indian Administrative Law</i> , ISBN No. 978-93-87839-78-6 | 2020 |

#### Research Projects Details:

| Title of the Project  | Sponsored by               | Year of Sanction | Duration | Budget (Rs.) |
|---|----------------------------|------------------|----------|--------------|
| A Study of Socio- Legal Challenges and Experiences of Children in North Bengal Region During the Lockdown Phase and COVID 19 Pandemic: With Special Reference to Districts of Darjeeling, Coochbehar, Jalpaiguri and Alipurduar | University of North Bengal | 2020             | 1 year   | 50,000       |
| A Socio-Legal Study for Combatting Child Trafficking in the District of Darjeeling, Alipurduar, Jalpaiguri and Coochbehar.  | University of North Bengal | 2020             | 1 year   | 50,000       |

#### NCC Activities:

The Department of Law associated itself with the prestigious 4 Bengal Girls Battalion of National Cadet Corps (NCC) in December 2020. Total 56 students have been enrolled and have been part of various activities like International Yoga Day, Republic Day, Independence Day and also programmes on environmental protection throughout the year.

#### Faculty Award Details:

Prof. Rathin Bandyopadhyay has received **Siksha Ratna** award from the Government of West Bengal on 5<sup>th</sup> September, 2020 for his distinguished service for the cause of education

## DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

### About the Department:

The Department of Library and Information Science, NBU was setup in the year 1990-91 under 7<sup>th</sup> plan of Govt. of India. Pioneered work of Prof. Krishna Nath Chattopadhyay, the then Vice Chancellor of the University and the untiring effort by Dr. Ajoy Ranjan Chakraborty led to development of this department to mitigate the long-standing social demands of entire North Bengal. Started with self-support the department made its strong footprint into the academic domain with active support from the professionals engaged in the university library.

Although BLIS was the prime course that had been taught near about 15 years, a gradual social demand for introducing master's course in Library Science was paramount. In the year 2005, Masters Course was started. Development of a separate building for the Department adjacent to the Central Library was a welcome move. During last 20 years it was the primary objective of the Department to develop skilled manpower. Updated and modernized syllabus, well equipped computer lab imbued the students to explore the profession in better way. The Department helps the students to explore the world of data and information management while preparing for a variety of creative and dynamic careers. Students majoring in the Department's programs gain expertise in information aggregators, information disseminators, information curators, publishing, teaching, and others. The past students of this Department excelled in the workplaces throughout India.

### Courses Offered:

- BLIS
- MLIS
- M. Phil.
- Ph. D.

### Research Focus:

- Big Data
- Knowledge Organization
- Information Retrieval
- Reference Services

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| BLIS   | 2020 | 09   | 40     | 49    | 17 | 03 | 02    | 03    | 23  |
| MLIS   | 2020 | 02   | 34     | 36    | 14 | 04 | 01    | 05    | 12  |

**Faculty Details:**

| Name                | Qualification | Designation     | Email                   |
|---------------------|---------------|-----------------|-------------------------|
| Dr. Saptarshi Ghosh | Ph. D.        | Professor       | sghosh@nbu.ac.in        |
| Dr. Tapan Barui     | Ph. D.        | Asst. Professor | tapanbarui@nbu.ac.in    |
| Mr. Mayukh Biswas   | M. S.         | Asst. Professor | mayukh biswas@nbu.ac.in |

**Details of Non-Teaching Staff:**

| Name                  | Qualification | Designation                 |
|-----------------------|---------------|-----------------------------|
| Naresh Chandra Singha | B.A.          | Junior Assistant cum Typist |
| Sankar Saha           | VIII Pass     | Grade IV (Casual)           |

**Details of Research Scholars:**

| Name         | Fellowship | Supervisor's name     | Gender | Date of Joining |
|--------------|------------|-----------------------|--------|-----------------|
| Aditi Roy    | JRF        | Prof. Saptarshi Ghosh | Female | 06.01.2020      |
| Mousumi Saha | JRF        | Prof. Saptarshi Ghosh | Female | 06.01.2020      |
| Vinay Anand  | JRF        | Prof. Saptarshi Ghosh | Male   | 06.01.2020      |
| Tumpa Saha   | JRF        | Dr. Tapan Barui       | Female | 06.01.2020      |

**Details of PhD Students (Without Fellowship):**

| Name             | Supervisor's Name     | Gender | Date of Admission in Ph.D. Course Work |
|------------------|-----------------------|--------|--|
| Mr. Manas Esh    | Prof. Saptarshi Ghosh | Male   | 07.01.2019                             |
| Ms. Moumita Bose | Prof. Saptarshi Ghosh | Female | 07.01.2019                             |
| Ms. Parna Ghosh  | Dr. Tapan Barui       | Female | 07.01.2019                             |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name        | Name of the Seminars/Conferences  | Date        |
|-------------|---|-------------|
| Tapan Barui | International Webinar on Pandemic Pedagogy: Teach- From –Home Students -At- Home”, organized by the Universal Briefing, Kolkata   | 3-4.10.2020 |
|             | Preservation and Conservation of Books & others materials in present situation of COVID-19, organized by Central Library, Chandrakona Vidyasagar Mahavidyalaya, Midnapore | 20.06.2020  |
|             | Role of the libraries in reading habits, organized by Readers Club International in association with Children's Literature Research Centre, Tripura                       | 30.06.2020  |

| Name | Name of the Seminars/Conferences  | Date          |
|------|---|---------------|
|      | International Webinar on Pedagogy through the Looking Glass: Challenges and Opportunities, organized by Narasinha Dutt College, Howrah and Naba Ballygunge Mahavidyalaya, Kolkata | 05.07.2020    |
|      | Copyright: unraveling the confusions of academe, organized by Rabindra Mahavidyalaya, Hooghly   | 10.06.2020    |
|      | International Webinar on 'New Normal Library Services in SAARC Countries with special reference to India, Bangladesh, Bhutan and Nepal, organized by Raiganj University           | 07.10.2020    |
|      | Innovative Research in Computer Science & Paper Writing Skills, organized by Smt. G. G. Khadse College, Muktainagar   | 22-23.06.2020 |
|      | Recent Trends in Computer Science research, organized by Dr Annasaheb G D Bendale Mahila Mahavidyalaya, Jalgaon   | 1-2.06.2020   |
|      | International Webinar on COVID-19 Biswa Mahamarite Uchha Siksha o Granthagar Pariseba : Samasya o Sambhabana, organized by Kandi Raj College, Murshidabad                         | 27.09.2020    |
|      | Intellectual Property Rights: Concept and Need, organized by Asansol Girls' College   | 16.06.2020    |
|      | Misinformation, Fake News and Society: A Roadmap Approach, organized by the Derozio Memorial College, Kolkata   | 10.07.2020    |
|      | NAAC : Best Practices in affiliated/antonymous college libraries, organized by MIT Academy of Engineering, Pune   | 15.05.2020    |
|      | Reading Advisory Service: need of the time, organized by MIT Academy of Engineering, Pune   | 13.05.2020    |
|      | Importance of getting book expertism, organized by MIT Academy of Engineering, Pune   | 11.05.2020    |
|      | OUT (Think, Smart and Perform), organized by MIT Academy of Engineering, Pune   | 16.05.2020    |
|      | Virtual Education & Role of Libraries, organized by LISPAB in collaboration with Baruipur College and Shimurali Sachinandan College of Education                                  | 8-9.08.2020   |
|      | Challenges and Strategies to Combat Education Specially in Libraries post COVID-19, organized by Saheed Kshudiram College   | 19.06.2020    |
|      | Open Access Resources and Tools in Research, organized by Visva-Bharati   | 02-12.05.2020 |
|      | Best Practices in Public Libraries, organized by Andhra Pradesh Library Association   | 19.11.2020    |
|      | Unlocking and Rethinking of Management & Services of College Libraries after Lockdown, organized by the Universal Briefing,   | 15.08.2020    |

| <b>Name</b> | <b>Name of the Seminars/Conferences</b>  | <b>Date</b>   |
|-------------|--|---------------|
|             | Kolkata  |               |
|             | Human Library, or, A Library of Talking Books: Changing Outlook of Readers, organized by the Bengal Library Association                            | 05.07.2020    |
|             | Technical Writing: How to Write a Technical Paper, organized by the Bengal Library Association   | 04.07.2020    |
|             | Library Service During Pandemic, organized by the Bengal Library Association   | 28.06.2020    |
|             | Maintaining Social Distance – Issues & Challenges, organized by the Bengal Library Association   | 19.05.2020    |
|             | Science, Culture and Rabindranath, organized by the Bengal Library Association   | 08.08.2020    |
|             | E-learning Resource Creation - A Beginning towards new Era of E-learning, organised by D. Y. Patil College of Engineering and Technology, Kolhapur | 08-20.06.2020 |

**Details of Seminar/Conferences /Webinar Attended by Research Scholars:**

| <b>Name</b> | <b>Details of the Seminars/Conferences/Training</b>   | <b>Date</b>   |
|-------------|---|---------------|
| Aditi Roy   | Webinar -4 on KOHA, organised by Odisha Library Academy   | 06.05.2020    |
|             | Webinar on Introduction to RFID Technology & Integration with ILMS, organised by Rapid Radio Solutions Pvt. Ltd. Ahmedabad  | 31.05.2020    |
|             | Online Education in the Changing Times: Problems and Prospects, organised by Vidyasagar University  | 07-08.07.2020 |
|             | Pandemic Pedagogy: Teach- From –Home Students -At- Home, organised by Jadavpur University   | 03-04.10.20   |
|             | International Webinar on New Normal Library Services in SAARC Countries with special reference to India, Bangladesh, Bhutan and Nepal, organised by Raiganj University  | 07.10.2020    |
|             | Skill Development of Library Professional in the Present Scenario, , organised by K D College of Commerce & General Studies, Midnapore in collaboration with Alumni Association, Department of Library & Information Science, Vidyasagar University | 08-10.10.20   |
|             | Redesigning of Library Services in the COVID-19 Scenario & Beyond , organised by Alliance University  | 19.11.2020    |
| Manash Esh  | Challenges for Libraries in Current Times, organised by EBSCO   | 17.06.2020    |
|             | Outcome Based Education Road-Map to E-Learning & Accreditation, organised by Informatics  | 29.05.2020    |

| <b>Name</b> | <b>Details of the Seminars/Conferences/Training</b>   | <b>Date</b>   |
|-------------|---|---------------|
|             | Understanding API and CAS process for working academic library professionals, organised by Dr. Bhanuben Mahendra Nanavati College of Home science | 27.06.2020    |
|             | Challenge and Strategies to Combat Education Specially in Libraries post-COVID 19, organised by Saheed Kshudiram College                          | 19.06.2020    |
|             | Trends in Publishing, organised by Springer Nature with INFLIBNET   | 16.06.2020    |
|             | Media Educators' Round Table, organised by ABP Education  | 6.06.2020     |
|             | How to Access Taylor and Francis Journals, organised by Taylor and Francis Group  | 19.05.2020    |
|             | Post-COVID 19 challenges and opportunities for library and library professionals, organised by Andhra University                                  | 03-05.06.2020 |
|             | Plan your research effectively using Scopus and Science Direct from Elsevier, organised by University of Jammu                                    | 29.05.2020    |
|             | Higher Education beyond COVID-19, organised by ABP Education  | 30.05.2020    |
|             | Hospitality Management, organised by ABP Education  | 20.06.2020    |
|             | Engineering Tomorrow, organised by ABP Education  | 13.06.2020    |
|             | Pandemic Pedagogy: Teach- From -Home Students -At- Home, organised by Universal Briefing  | 30.08.2020    |
|             | Best Practices for Teaching Online, organised by ABP Education  | 4.07.2020     |
|             | E-Learning and MOOCs, organised by Government RBR NES PG College Chhattisgarh   | 19.07.2020    |
|             | Rethinking and recreating the academic Library: Lessons from the Pandemic, organised by Institute of Chemical Technology, Mumbai                  | 22-25.07.2020 |
|             | Discover Emerald journals for your research, organised by Emerald Publishing  | 02.06.2020    |
|             | All about Scientific Publishing-Trends, Nuances, Tools, Ethics, organised by Springer Nature  | 09.09.2020    |
|             | Publishing Ethics in Biomedicine & Life Science Research, organised by Springer Nature  | 16.09.2020    |
|             | Evidence-Based Lifestyle modification through Yoga in COVID-19 Pandemic, organised by Visva-Bharati   | 19-20.06.2020 |
|             | Future Libraries: Role of Library and Information Science Professionals, organised by Aditya Educational Institute, Andhra Pradesh                | 18.07.2020    |
|             | National Education Policy -2020: Prospects and Problems,  | 30.08.2020    |

| Name         | Details of the Seminars/Conferences/Training   | Date                     |
|--------------|--|--------------------------|
|              | organised by West Bengal University Officers' Association  |                          |
|              | Bengal Education Leaders' Summit with education minister Partha Chatterjee: Is Higher Education in Bengal today geared for Careers of Tomorrow? , organised by ABP Education                             | 12.08.2020               |
|              | Importance of Intellectual Property Rights for Academic Institutions, organised by Visva-Bharati   | 12.09.2020               |
|              | Digital Divide and Role of Libraries During COVID-19 Pandemic, organised by Ramananda College, Bankura Garhbeta College, Paschim Medinipur   | 19.08.2020               |
|              | National webinar organized by VBLN, organised by Visva-Bharati   | 16-29.06.2020            |
|              | Mind your Mind: Change your words, Change your Destiny and Fascinating Science of Numerology, organised by Abhayapuri College in collaboration with Mind Miracle, Healing and Counselling Center, Kanpur | 14.07.2020               |
|              | Reaching the unreached: Engaging Communities through effective use of Social Media, organised by Brainware University  | 11.07.2020               |
|              | Celebrating the Life and Works of Dr. H.K Kaul: Commemorating His 79th Birth Anniversary, organised by DELNET  | 21.12.2020               |
|              | Cyber Security: Best Practice to protect your organization in Cyberspace, organised by DELNET  | 30.12.2020               |
|              | Media and Information Literacy for putting knowledge to work, organised by DELNET  | 30.01.2021               |
|              | New normal Library services in SAARC countries with special reference to India, Bangladesh, Bhutan and Nepal, organised by Raiganj University  | 7.10.2020                |
|              | Certificate of Participation “ How to access Taylor &Francis Journals”   | 19.05.2020               |
|              | Leadership and Governance in Higher Education. Level 2   | 01.12.2020 to 31.03.2021 |
|              | Refresher Emerging Trends & Technologies in Library & Information Services (ETTLIS)  | 01.12.2020 to 31.03.2021 |
| Mousumi Saha | Planning and implementation of adigital repository using Dspace, organised by BLA  | 22,26,31 April,2020      |
|              | Koha Training & BBB Social MediaWorkshop, organised by Indira Gandhi National Centre for the Arts  | 20.05.2020               |
|              | Big Data, Open Data and ResearchData Management, organised by OLA  | 23.05.2020               |

| <b>Name</b> | <b>Details of the Seminars/Conferences/Training</b>   | <b>Date</b>              |
|-------------|---|--------------------------|
|             | Webinar on Introduction to RFID Technology & Integration with ILMS, organised by RapidRadio Solutions Private Limited, Ahmedabad                  | 31.05.2020               |
|             | Emerging trends and tools in library and information services, organised by Theem College of Engineering, Mumbai                                  | 08.06.2020               |
|             | VuFind, Open Source and the power of community, organised by BLA  | 19.06.2020               |
|             | Installation and customization of KOHA: a beginners approach, organised by BLA  | 27.06.2020               |
|             | Online Training Programme on Research Methodology and Ethics: Plagiarism Issues Reference Management Tools and Altmetrics, organised by INFLIBNET | 15-19.06.2020            |
|             | Human Library or A library of talking books: Changing outlook of readers, organised by BLA  | 05.07.2020               |
|             | online advanced training programme on Bibliometrics and Research Output Analysis, organised by INFLIBNET  | 20-24.07.2020            |
|             | Access to a library beyond the four walls: a covid 19 context, organised by Mynaguri College  | 12.08.2020               |
|             | 23 <sup>rd</sup> National Convention of Knowledge, library and Information Network, organised by DELNET   | 22-24.09.2020            |
|             | COVID.19 Biswa Mahamarite Uchha Siksha O Granthagar Pariseba : Samasya O Sambhabana, organised by Kandi Raj College                               | 27.09.2020               |
|             | Pandemic Pedagogy : Teach –from-home Students-at- home, organised by Jadavpur University  | 03-04.10.2020            |
|             | Skill Development of Library Professional in the Present Scenario (Series 1) , organised by K D College of Commerce & General Studies, Midnapore  | 08-10.10.2020            |
| Parna Ghosh | “Prospects of Library Services in E-learning Ecosystem”, organised by Rastraguru Surendranath College, Barackpore                                 | 16.01.2021               |
|             | “Webinar on DELNET” organised by HVPM College of Engineering and Technology, Amravati   | 22.01.2021               |
|             | Training Programme on “Research Evaluation and Research Support Tools” organised by INFLIBNET Center  | 27.01.2021 to 29.01.2021 |
| Tumpa Saha  | Accessing Research Output & Its Enhancement, organised by JK Business School  | 02.05.2020               |
|             | SLA Asian Chapter Webinar- Advocacy For The Higher Education, organised by SLA  | 04.05.2020               |



| <b>Name</b> | <b>Details of the Seminars/Conferences/Training</b>  | <b>Date</b>                 |
|-------------|--|-----------------------------|
|             | SLA Asian Chapter Webinar-Transferable Skills: Tips For Library Career Transitions, organised by SLA   | 14.05.2020                  |
|             | Open Data and Role of Libraries, organised by Panjab University  | 15.05.2020                  |
|             | Research Data Management For Higher Educational Institutions, organised by NIT Rourkela  | 15.05.2020                  |
|             | Koha Training & BBB Social Media Workshop, organised by Indira Gandhi National Centre For The Arts   | 16.05.2020                  |
|             | Maintaining Social Distance- Issues And Challenges, organised by Bengal Library Association  | 19.05.2020                  |
|             | Changing Landscape in Research, organised by Ansul University  | 30.05.2020                  |
|             | Introduction to RFID Technology & Integration With ILMS, organised by Rapid Radio Solutions  | 31.05.2020                  |
|             | 21st Century Information Skills Delhi Library Association  | 26-29.05.2020               |
|             | Online FDP on Skills for Librarianship, organised by LIS Academy & NCSI Net Foundation   | 16.05.2020 to 21.06.2020    |
|             | Webinar On Koha (What Is New in Koha 20.05?) And Panel Discussion On KISS: Koha India Strategies for Sustainability, organised by Odisha Library Academy | 06.06.2020                  |
|             | Library in a Smart City, organised by Bengal Library Association   | 06.06.2020                  |
|             | Post COVID-19 Library Management, organised by Bengal Library Association  | 04.06.2020                  |
|             | Self-Publishing, organised by Bengal Library Association   | 13.06.2020                  |
|             | Research Ethics , Integrity And Plagiarism, organised by Bengal Library Association  | 9,12.06.2020                |
|             | Online Faculty Development Programme: Issues and Challenges, organised by Bengal Library Association   | 14.06.2020                  |
|             | Intellectual Property Rights: Concept And Need, organised by Asansol Girls' College  | 16.06.2020                  |
|             | 2nd National Webinar, organised by Viswa-Bharati Library Network   | 19.06.2020                  |
|             | Challenges And Strategies To Combat Education Specially In Libraries Post COVID-19, organised by Sahid Kshudiram College                                 | 16-18,22-27 & 29 June, 2020 |
|             | Strategic Library Re- Opening In A Pandemic World, organised by Odisha Library Academy   | 20.06.2020                  |

| Name | Details of the Seminars/Conferences/Training   | Date            |
|------|--|-----------------|
|      | Academic Writing And Research Ethics, organised by, Janata College, Kabuganj in Association with Don Bosco College Central Library, Itanagar                       | 27-29.06.2020   |
|      | Relevance Of Online Teaching And Role Of Digital Library In Present Scenario Of COVID-19, organised by Basanti Devi College  | 04.07.2020      |
|      | Pedagogy Through The Looking Glass: Challenges And Opportunities, organised by Narasinha Dutt College and Naba Ballygunge College                                  | 05.07.2020      |
|      | e-Lan 2020, organised by Banwarilal Bhalotia College, Asansol  | 08.07.2020      |
|      | Five Days Online Training Programme on Creation and Management of Digital Library using Open-Source Software from. Organized by INFLIBNET Centre                   | 05 - 09.10.2020 |
|      | Five Days Online Training Programme on Research Methodology and Ethics: Plagiarism Issues Reference Management Tools and Altmetrics. Organized by INFLIBNET Centre | 15-19.07.2020   |

### Publications:

| Name of the Author | Publication Details   | Year |
|--------------------|---|------|
| Dr. Tapan Barui    | Discovering Topics from the Titles of the Indian LIS Theses, <i>Library Philosophy and Practice</i> , p.1- 23, ISSN-15220222  | 2021 |
|                    | Skills of Technical Writing for Academics, Subject Specialists and Library professionals: a study, <i>Vidyawarta: International Multilingual Research Journal</i> , 37(1), IF - 7.04, ISSN - 23199318 | 2021 |
| Manash Esh         | Analyzing Digital Literacy (DL) of the LIS Students of University of North Bengal, <i>Library Philosophy and Practice</i> , ISSN: 1522-0222   | 2021 |
|                    | Tracing the Global Trend on the Study of Digital Literacy: A Scientometric Analysis, <i>IGI Global Publisher, IJDLDC</i>  | 2021 |

## DEPARTMENT OF LIFELONG LEARNING & EXTENSION

### About the Department:

The Department of Lifelong Learning & Extension (DLLE), University of North Bengal has been pursuing its mission along with philosophy of Lifelong Learning as a part of the creation of learning knowledge society. The Centre for Adult Continuing Education (CACE), University of North Bengal commenced functioning from August 1987 with financial assistant received from the University Grants Commission. Under UGC 10<sup>th</sup> Plan Guideline the CACE renamed as Department of Adult, Continuing Education, and Extension & Field Outreach (DACEEFO). As per the Eleventh Plan Guideline of UGC and the decision of the North Bengal University Executive Council, the Department has become a full-fledged Department with full academic status under University of North Bengal. The nomenclature has been changed as the Department of Lifelong Learning & Extension (DLLE) in October, 2009.

From its inception, the thrust area of the department has been the expansion of the third dimension of higher education in Northern part of West Bengal by meeting regional need of Adult Education, Continuing Education, Population Education, Health Education, Environmental Education and Rural Development Education as well as by taking up several successive educational extension and outreach activities that extend far beyond the traditional academic programme delivered through the University system.

The general objectives of DLLE is to contribute the lifelong learning to the development of the community as an advanced knowledge society with sustainable economic development and to facilitate in bringing the changes in the lives of the common people by providing professional, vocational, skill based courses, workshops, training seminars, sensitization cum awareness programmes. As such, the goals of the Department are:

- The strengthening process of human resource development
- To build up the linkage between the community and the university
- Conducting training-orientation programmes for different communities and members of Local Self Government to strengthen participatory democracy
- Extending the opportunity to the budding researchers in various areas of rural issues through Ph. D programme

### Courses Offered:

- MA in Rural Development

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| M. A.  | 2020 | 07   | 22     | 29    | 8  | 4  | 1     | 4     | 12  |

**Details of Course Completed by Students in 2020 - 21:**

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| M. A.  | 2021 | 3    | 6      | 9     | 3  | 1  | 0     | 3     | 2   |

**Faculty Details:**

| Name                      | Qualification  | Designation                      | Email                     |
|---------------------------|----------------|----------------------------------|---------------------------|
| Mr. Monotosh Bose         | M.A.           | Assoc. Professor                 | monotoshbose@nbu.ac.in    |
| Dr. Sidhartha Sankar Laha | M.A., Ph.D.    | Assoc. Professor                 | sidharthasnr09@nbu.ac.in  |
| Dr. Ratna Sarkar          | M.Phil., Ph.D. | Asst. Professor<br>(Contractual) | ratnasarkardlle@nbu.ac.in |
| Mr. Bijoy Das             | M.A., B.Ed.    | Asst. Professor<br>(Part-time)   | bijoy.23kmg@gmail.com     |

**Details of Non-Teaching Staff:**

| Name              | Qualification | Designation      |
|-------------------|---------------|------------------|
| Mr. Gautam Sarkar | B.A.          | Senior Assistant |
| Mr. Ajay Singha   | H.S.          | Group-D (Casual) |

## DEPARTMENT OF MANAGEMENT

### About the Department:

The Department of Management, University of North Bengal was established on 11<sup>th</sup> April, 2003 in order to provide quality management education and other services of global standard in a high quality ambience. The Department conducts full time Master of Business Administration (MBA) Programme approved by AICTE and recognized by UGC.

The Department aspires to achieve excellence in every sphere of its activity including curricular works, research, professional outlook, consultancy, student support and outreach programme. The Department has been rated as an A+ category B-School in the National B-School survey conducted by Business India, and other National B-School surveys like Business World, Business Today, and Competition Success Review.

The Department of Management, University of North Bengal is an official member of the Association of Indian Management Schools (AIMS), where the contemporary members are the highly reputed B-Schools in India like IIMs, Jamnalal Bajaj Institute of Management Studies, FMS, IISWBM, Calcutta etc. This has enabled the Department of Management to gain its foothold in the sphere of the nationally acclaimed B-Schools of our country.

### Courses Offered:

- MBA (CBCS) with Dual Specialization

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| MBA    | 2021 | 18   | 26     | 44    | 6  | 3  | 3     | 6     | 25  |
|        | 2020 | 20   | 25     | 45    | 7  | 3  | 3     | 6     | 26  |

### Details of Course Completed by Students in 2020-21:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| MBA    | 2021 | 16   | 12     | 28    | 6  | 1  | -     | 1     | 20  |

### Faculty Details:

| Name               | Qualification                      | Designation     | Email                    |
|--------------------|------------------------------------|-----------------|--------------------------|
| Dr. Deepak Subba   | MBA, Ph.D                          | Asst. Professor | deepaksubba08@nbu.ac.in  |
| Mr. Sanmoy Mallick | B. Tech, MBA, Ph.D<br>(Registered) | Asst. Professor | sanmoy.mallick@nbu.ac.in |

| <b>Name</b>         | <b>Qualification</b>      | <b>Designation</b>               | <b>Email</b>            |
|---------------------|---------------------------|----------------------------------|-------------------------|
| Dr. Nandita Pradhan | MA (Economics),<br>Ph.D.  | Asst. Professor<br>(Contractual) | nbajrcharya15@nbu.ac.in |
| Dr. Subrata Ray     | MBA, Ph.D.                | Asst. Professor<br>(Contractual) | ray.subrata@nbu.ac.in   |
| Mr. Dipanjan Maitra | MCA, Ph.D<br>(Registered) | Asst. Professor<br>(Contractual) | dip_anjan@nbu.ac.in     |

#### **Details of Non-Teaching Staff:**

| <b>Name</b>              | <b>Qualification</b>     | <b>Designation</b>             |
|--------------------------|--------------------------|--------------------------------|
| Mr. Somnath Ghosh        | B. Com                   | Office Assistant (Contractual) |
| Mr. Deepak Kumar Chhetri | 8 <sup>th</sup> Standard | Office Peon (Casual)           |
| Mrs. Draupadi Mallik     | -                        | Sweeper (Casual)               |

#### **Details of Seminars/Conferences/Webinar Organized:**

| <b>Name of the Seminar/Conference/ Webinar</b>  | <b>Date</b> | <b>No. of Participants</b> |
|---|-------------|----------------------------|
| Webinar: The Role of HR Analytics Leader: Driving Productivity & Experience by Mr. Subrata Kumar Saha, Deputy Chief Manager, HR - Bennett, Coleman & Co. Ltd.         | 23.05.2020  | 90                         |
| Webinar: Post COVID19: The Trends, Opportunities and Challenges in Operations and Supply Chain Management by Mr. Anirban Chowdhury, Deputy Manager, CESC Ltd. Kolkata | 23.05.2020  | 90                         |
| Webinar: COVID & Digital Transformation By Mr. Diptesh Sinha, Manager, Cognizent Technology Solutions, Pune   | 30.05.2020  | 90                         |
| International Webinar: Agile Methodology and Scrum Practice by Mr. Tanmoy Digal, Senior Project Manager, Royal Bank of Canada, Toronto                                | 12.06.2020  | 90                         |
| Webinar: Consumer Analytics: Post - Pandemic Trends by Dr. Arun Kumar Kaushik, Assistant Professor - Marketing IIM Amritsar, Punjab                                   | 20.06.2020  | 90                         |
| Webinar: Importance of 'Patient Journey Mapping' in Brand Building by Mr. ArindamBhowmik, Head, Marketing, Cadila Pharmaceuticals Ltd. Ahmedabad, Gujarat             | 21.06.2020  | 90                         |
| International Webinar: Business & Data Analysis - Basic Concepts by Mr. Ankit Biswas, Functional Consult/Business   | 12.07.2020  | 90                         |

| <b>Name of the Seminar/Conference/ Webinar</b>  | <b>Date</b>   | <b>No. of Participants</b> |
|---|---------------|----------------------------|
| Analyst - Enterprise Asset Mgmt Systems, BPD Zenith Asia - Pacific, New Zealand   |               |                            |
| National e-Conclave 2020 on Online Education Pedagogy in Modern Management of Higher Education & Business Studies jointly by Department of Education & IQAC Dept. of Hiralal Mazumdar Memorial College for Women, Kolkata         | 28-29.06.2020 | 150                        |
| International e-Symposium 2020 on Prospects, Opportunities & Challenges of Research Studies in the field of Travel, Tourism & Hospitality Management.   | 18-19.07.2020 | 180                        |
| National Webinar Jointly with Department of Economics, University of North Bengal on Understanding Health Insurance and COVID Covers by Mr. Pradip Sarkar, Principal, College of Insurance, Insurance Institute of India, Kolkata | 19.08.2020    | 90                         |
| Ahovaan 2021: An Industry – Institute Interface   | 22-23.03.2021 | 90                         |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>    | <b>Details</b>   | <b>Date</b>   |
|----------------|--|---------------|
| Deepak Subba   | International Conference on “Business Research and Innovation  | 26-27.02.2021 |
| Sanmoy Mallick | National Conference on Financial Implications of COVID-19 on India with Special Reference to Punjab  | 03-05.06.2020 |
|                | National Level Faculty Development Programme on 'R-Programming' organized by IMS Noida & IIT Bombay  | 25-29.05.2020 |
|                | National Webinar on Indexing & Referencing of Journal in Research organised by ORSI Durgapur   | 07.03.2021    |
|                | National Webinar on “COVID 19 Human Resource Migration: Issues and Challenges” organised by Centre for Public Policy(CPP), Doon University, Dehradun | 26.06.2020    |
|                | National Webinar on Digital Risk: Key to Build a Resilient Digital Enterprise organized by ICAFI University, Dehradun                                | 07.06.2020    |
|                | National Webinar on Social, Economic and Political Empowerment: Role of Micro Finance Intervention in  | 04.07.2020    |

| Name | Details   | Date          |
|------|---|---------------|
|      | Diverse Cultures conducted by ICSSR Research Team, University of Calcutta   |               |
|      | FDP on Case Discussion Methodology Bachelor of Business A organized by Mahatma Gandhi National Council of Rural Education | 18-22.05.2020 |

### Research Projects Details:

| Title of the Project   | Sponsored by | Year of Sanction | Duration | Budget (Rs.) |
|--|--------------|------------------|----------|--------------|
| Assessment of Govt. schemes and programs for developing tourism entrepreneurs in Siliguri and Darjeeling areas | NBU          | 2020             | 1 year   | 1,00,000     |
| Understanding the relationship between social adjustment , emotional stability and turnover intention          | NBU          | 2020             | 1 year   | 1,00,000     |

### Students Placement Details:

| Sl. No. | Name of the Student | Name of the Employer                 |
|---------|---------------------|--------------------------------------|
| 1       | Sushmita Lama       | Bharat Financial Inclusion Limited   |
| 2       | Diksha Agarwal      | Neotia Getwell healthcare center     |
| 3       | SamitBaidya         | Axis Bank                            |
| 4       | Sumon Das           | Bajaj Allianz Life Insurance Company |
| 5       | BratatiSaha         | Bajaj Allianz Life Insurance Company |
| 6       | UshnataRai          | Bajaj Allianz Life Insurance Company |
| 7       | Nikita Bania        | Bajaj Allianz Life Insurance Company |
| 8       | Anubhab Kumar       | Bajaj Allianz Life Insurance Company |
| 9       | MoumitaDevroy       | Bajaj Allianz Life Insurance Company |
| 10      | Sayani Dutta        | Bajaj Allianz Life Insurance Company |
| 11      | Taniya Roy          | ICICI Prudential Life Insurance      |
| 12      | Tamanna Ghosh       | Sandeepg real estate                 |
| 13      | ShubhankarSaha      | Sandeepg real estate                 |
| 14      | Pronay Deb          | Royal Enfield                        |
| 15      | Manoj Kumar Singha  | Bandhan Bank                         |
| 16      | UnikiKhanal         | Bandhan Bank                         |
| 17      | Apurba Shankar Paul | Bajaj Allianz Life Insurance Company |



| <b>Sl. No.</b> | <b>Name of the Student</b> | <b>Name of the Employer</b>       |
|----------------|----------------------------|-----------------------------------|
| 18             | Chnadan Sharma             | Future Retail                     |
| 19             | ShikaRai                   | Elixir Writing Services Pvt Ltd.  |
| 20             | Smarika Raya               | Elixir Writing Services Pvt Ltd.  |
| 21             | PraweshRai                 | Elixir Writing Services Pvt Ltd.  |
| 22             | PriyankaSen                | Byju's                            |
| 23             | Puja purohit               | Paperpedia                        |
| 24             | Kapil Sharma               | Byju's                            |
| 25             | Mousumi Paul               | Aidtya Birla Fashion Retails Ltd. |
| 26             | Soubhik Roy                | Aidtya Birla Fashion Retails Ltd. |

## DEPARTMENT OF MASS COMMUNICATION

### About the Department:

The Department of Mass Communication, University of North Bengal was established in 2009. Since then the infrastructure and facilities in the Department has been upgraded to meet the requirements of quality theory and practical courses. The Department has been made equipped with PD professional cameras, a couple of SLR digital cameras along updated editing softwares. The Department has two laboratories; one for the desktop printing and one for editing audio visual projects. There are good number of computers in the DTP lab and several desktops along with iMac machines in the audio visual lab. The vertical extension of the building has accommodated a seminar room, an audio visual lab and a reading room.

The students mostly do their class projects like recording and editing radio spots, editing films and documentaries in this audio visual lab. The reading room has books and dissertations of previous years for reference purpose along with 5 newspapers in different languages which can be accessed by the students anytime. Students direct, shoots and edits short films/documentaries as a project. A student's film festival 'Bioscope' is organized to screen the films made by the students. This platform has been initiated to showcase the talent and creativity of the students. Apart from regular theory and practical classes, the class routine also schedules a Media Club every Friday where various activities are planned to involve the students from practical classes. Every Friday a new topic or an activity like photography competition, interview techniques, classic movie screening with a discussion or designing a magazine etc are held. The upgraded syllabus includes a study tour to be conducted within the country which includes a visit to the various media organization and diverse community of those regions.

The Department conducts regular practical classes on cinematography and video editing, newspaper designing and so on. The students prepare vox pop, radio spots, design a newspaper etc. and are also given hands on training in making house journals and print advertisements by visiting the local corporate companies based at Siliguri. The Department conducts visit to the AIR at Kurseong, Doordarshan Kendra and Siliguri based FM stations every year.

### Courses Offered:

- M. A.
- Ph. D.

### Research Focus:

- Developed communication
- Community Media

### Student Strength:

| Course | Year | Male | Female | Total |
|--------|------|------|--------|-------|
| MA     | 2020 | 10   | 25     | 35    |

**Details of Course Completed by Students in 2020-21:**

| Course | Male | Female | Total |
|--------|------|--------|-------|
| MA     | 6    | 16     | 22    |

**Faculty Details:**

| Name                  | Qualification     | Designation                   |
|-----------------------|-------------------|-------------------------------|
| Mr. Subhrajyoti Kundu | MA (perusing PhD) | Asst. Professor               |
| Dr. Abhishek Das      | PhD               | Asst. Professor               |
| Mrs. Deepika Thapa    | MA                | Asst. Professor (Contractual) |

**Details of Non-Teaching Staff:**

| Name      | Qualification | Designation   |
|-----------|---------------|---------------|
| Dipak Dey | Madhyamik     | Peon (Casual) |

**Details of Research Scholars:**

| Name             | Fellowship Status | Gender | Date of Joining |
|------------------|-------------------|--------|-----------------|
| Lakshmi Prabha P | UGC ET-JRF        | Female | 20/12/2019      |

**Details of PhD Students (Without Fellowship):**

| Name       | Gender | Date of Admission in Ph.D. Course Work |
|------------|--------|--|
| Vikram Rai | Male   | 02/01/2020                             |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name              | Details   | Date                    |
|-------------------|---|-------------------------|
| Subhrajyoti Kundu | International Webinar on Communicating COVID-19: Geopolitics of A Global Pandemic organized by Sree Chaitanya Mahavidyala, 24 Pgs. in collaboration with Domkal Girls' College, Murshidabad | 30.06.2020 & 01.07.2020 |
|                   | Webinar on Literature through Music: Rendition of a section of Abhijanashakuntalam and Kubla Khan on violin organized by Bethune College, Kolkata   | 04.07.2020              |
|                   | Webinar on Art of Film Making and Creativity in Advertising organized by Apeejay Institute of Mass Communication  | 07.07.2020              |

| <b>Name</b> | <b>Details</b>   | <b>Date</b>                   |
|-------------|--|-------------------------------|
|             | Webinar on Citizen -Friendly Administration: Emerging Issues organized by JAIN (Deemed-to-be University) in collaboration with Centre for Research in Social Sciences and Education (CERSSE) and Indian Institute of Public Administration | 24.07.2020                    |
|             | National Webinar on Philosophy of Mathematics, Psychoanalysis and Modernist Literature organized by the Narasinha Dutt College   | 03.08.2020                    |
|             | Webinar on Impact of Tobacco on COVID-19 organized by NSS, NBU in collaboration with Sambandh Health Foundation  | 08.08.2020                    |
|             | International Webinar on COVID may change, but not lessen opportunities in Media organized by the Brainware University   | 12.08.2020<br>&<br>14.08.2020 |
|             | Webinar on the topic Mahatma Gandhi: Making of History and Contemporary organized by Tezpur University.  | 15.08.2020                    |
|             | Webinar on Culture and Social relations, organized by NBU  | 24.11.2020                    |
|             | Webinar on Is Online Media Changing Education for the Better? organized by sister Nivedita University  | 26.11.2020                    |
|             | Workshop on Dhimal Language (Bhasha Porichoy Series 1) Organized by NBU  | 15 –<br>17.01.2021            |
|             | Webinar on Women’s Mental Health: Issues and Challenges organized by NBU   | 24.03.2021                    |

**Publication:**

| <b>Name of the Author</b> | <b>Publication Details</b>  | <b>Year</b> |
|---------------------------|---|-------------|
| Subhrajyoti Kundu         | Editor, <i>Bairati</i> , Journal of Centre for Studies in Local Languages and Cultures, NBU | 2020-2021   |

**Placement Details:**

08 students out of 22 got placed in the year 2020-21

## DEPARTMENT OF NEPALI

### About the Department:

The Department of Nepali, University of North Bengal was established in 1977 with a view to fulfill the aspiration of the cherished people of Darjeeling, Dooars, Jalpaiguri and its adjoining neighbour state Sikkim, and North Eastern states. Starting its journey in the Arts Building of the University, the Department was relocated in its own new building in 2001.

An academy within the Department was established under funding support of the State Government to develop and initiate the research work on Nepali Language and Literature, Culture, Folk lore of the people in Nepali speaking areas of North Bengal, Sikkim, Bhutan, North Eastern states and nearest Himalayan region.

Beside the Department activities, the faculty members of Nepali Department are time to time engaged in various National and state level confidential works in relation to the Nepali language and literature assignments under the UPSC, UGC, WBPS, WBCSC & etc.

### Courses Offered:

- M. A. in Nepali
- M. Phil. in Nepali
- Ph. D. in Nepali

### Research Focus:

- Nepali Prose Stylistics
- Modern Nepali Fiction
- Drama, Folklore and Criticism

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| M.A.   | 2020 | 8    | 40     | 48    | 4  | 14 | 21    | 0     | 9   |

### Details of Course Completed by Students in 2020 - 21:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| M. A.  | 2020 | 10   | 42     | 52    | 7  | 18 | 24    | Nil   | 3   |

### Faculty Details:

| Name                 | Qualification | Designation | Email             |
|----------------------|---------------|-------------|-------------------|
| Dr. Ghanashyam Nepal | M.A., Ph.D.   | Professor   | nepalgs@gmail.com |

| Name                    | Qualification        | Designation     | Email                       |
|-------------------------|----------------------|-----------------|-----------------------------|
| Dr. Mohan Prasad Dahal  | M.A., Ph.D.          | Professor       | mohanpdahal.nbu@gmail.com   |
| Dr. Krishnaraj Ghatani  | M.A., Ph.D.          | Professor       | ghatanikr@gmail.com         |
| Dr. Sanjay Rai          | M.A., Ph.D.          | Professor       | sanjaybantawa@gmail.com     |
| Dr. Pushkar Parajuli    | M.A., Ph.D.          | Asst. Professor | pparajuli.nbu@gmail.com     |
| Dr. Dup Tshering Lepcha | M.A., M. Phil, Ph.D. | Asst. Professor | duptsheringlepcha@nbu.ac.in |
| Smt. Krishnamaya Manger | M.A.                 | Asst. Professor | krishnamanger@gmail.com     |

#### Details of Non-Teaching Staff:

| Name                    | Qualification     | Designation                |
|-------------------------|-------------------|----------------------------|
| Sri Gyan Prasad Chhetri | M.A. in Nepali    | Superintendent (Technical) |
| Miss Rina Subba         | M.A. in History   | Office Assistant (Casual)  |
| Smt. Jamuni Sharma      | Class IV appeared | Record Supplier            |

#### Details of Research Scholars:

| Name           | Fellowship Status | Supervisor's Name        | Gender | Date of Joining |
|----------------|-------------------|--------------------------|--------|-----------------|
| Pritam Rai     | NET (JRF)         | Dr. Dup Tshering Lepcha  | Male   | 02.01.2020      |
| Bhim Kumar     | NET (JRF)         | Prof. Krishnaraj Ghatani | Male   | 02.01.2020      |
| Chandrika Rai  | NET (JRF)         | Prof. Ghanashyam Nepal   | Female | 02.01.2020      |
| Bunu Sharma    | NET (JRF)         | Prof. Krishnaraj Ghatani | Female | 02.01.2020      |
| Gopal Bista    | NET (JRF)         | Dr. Pushkar Parajuli     | Male   | 02.01.2020      |
| Ashish Tamang  | NET (JRF)         | Prof. Sanjay Rai         | Male   | 02.01.2020      |
| Shiben Sharma  | NET (JRF)         | Dr. Pushkar Parajuli     | Male   | 02.01.2019      |
| Shivam Sharma  | NET (JRF)         | Prof. Ghanashyam Nepal   | Male   | 02.03.2021      |
| Sachin Chhetri | NET (JRF)         | Dr. Mamta Lama           | Male   | 25.03.2021      |

#### Publications:

| Name of the Author      | Publication Details   | Year |
|-------------------------|---|------|
| Smt. Krishnamaya Manger | भूपि शेरचनका कवितामा लक्षणा प्रयोग, अनुसन्धान, Vol.3:4,                           | 2020 |
|                         | Numeral Classifiers in Nepali, <i>Language in India</i> , Vol. 20:8, August, 2020 | 2020 |

## DEPARTMENT OF PHILOSOPHY

### About the Department:

The Department of Philosophy, North Bengal University, which was established in 1968, is one of the very accomplished centres of learning and research in Philosophy in India. The Department gives equal emphasis on quality research as well as on development and training of students through extensive teacher-student interaction.

The Department is a vibrant centre of higher education and research. Academic activities like taking up of research projects, publication of books and papers, organization of seminars/workshops and refresher courses have been a mark of the department over the years. An atmosphere of free discussion is encouraged in the department which helps the students to realize the significance of Philosophy in areas beyond the contours of the syllabus. Student–teacher interaction during classroom teaching as well as during seminars is not strictly confined to the limits of the syllabus, but transcends into other areas of importance and relevance. National and international seminars and lectures by well-known scholars are held regularly in the department. Faculty from various Indian and foreign universities visit us regularly, adding to the vitality of the academic discourse here. The faculty members of this department also visit universities abroad on visiting faculty programmes and for attending seminars/conferences. Students are encouraged to take part in academic discussions with visiting faculty and to participate in seminars/conferences.

The Department of Philosophy, University of North Bengal has been awarded Special Assistance DRS I (2002 -2009), DRS-II (2009-2014) and DRS-III (2015-2020) by the UGC to carry on research on ‘*The Problem of Meaning in Classical Indian Philosophy and Contemporary Western Philosophy*’.

### Courses Offered:

- M. A.
- M. Phil.
- Ph. D.

### Research Focus:

- Philosophy of Language
- Analytic Philosophy
- Contemporary Indian Philosophy
- Continental Philosophy
- Philosophy of Religion
- Cognitive Science

### Student Strength:

| Course          | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|-----------------|------|--------|-------|----|----|-------|-------|-----|
| M.A. Sem - I    | 32   | 47     | 79    | 40 | 7  | 8     | 8     | 16  |
| M. A. Sem - III | 25   | 41     | 66    | 39 | 3  | 6     | 6     | 12  |

**Faculty Details:**

| Name                        | Qualification | Designation      | Email                     |
|-----------------------------|---------------|------------------|---------------------------|
| Prof. Debika Saha           | Ph. D.        | Professor        | dsphil8@nbu.ac.in         |
| Prof. Kantilal Das          | Ph. D.        | Professor        | drkldas1963@nbu.ac.in     |
| Prof. Jyotish Ch. Basak     | Ph. D.        | Professor        | jyotishcbasak@nbu.ac.in   |
| Dr. Koushik Joardar         | Ph. D.        | Assoc. Professor | koushikjoardar@nbu.ac.in  |
| Dr. Nirmal Kr. Roy          | Ph. D.        | Assoc. Professor | nkr.anirban@nbu.ac.in     |
| Dr. Anirban Mukherjee       | Ph. D.        | Assoc. Professor | anirban@nbu.ac.in         |
| Dr. Laxmikanta Padhi        | Ph. D.        | Assoc. Professor | lkpadhi@nbu.ac.in         |
| Dr. Ngaleknao Ramthing      | Ph. D.        | Asst. Professor  | ngaleknaonbu15@nbu.ac.in  |
| Smt. Swagata Ghosh          | MA, M. Phil   | Asst. Professor  | ghoshswagatanbu@nbu.ac.in |
| Smt. Anureema Bhattacharyya | MA            | Asst. Professor  | abhattacharyya4@nbu.ac.in |
| Dr. Mayank Bora             | Ph. D.        | Asst. Professor  | mayankbora@nbu.ac.in      |

**Details of Non-Teaching Staff:**

| Name               | Designation           |
|--------------------|-----------------------|
| Smt. Priyanka Roy  | Jr. Asstt. Cum Typist |
| Shri Balaram Kundu | Record Supplier       |

**Name of the Research Scholars:**

|                              |                            |                          |
|------------------------------|----------------------------|--------------------------|
| 1. Reshmee Sarkar            | 10. Samir Barman           | 19. Najmun Khatun        |
| 2. Soumitra Chakroborty      | 11. Sanjay Boro            | 20. Krishna Paul         |
| 3. Sahabuddin Ahamed Jamader | 12. Jayeeta Majumdar       | 21. Harendra Nath Barman |
| 4. Priyanka Basak            | 13. Rupon Nag              | 22. Bibash Chakroborty   |
| 5. Kabita Roy                | 14. Jayanta Barman         | 23. Nasima Begam         |
| 6. Madhurima Bhowmick        | 15. Niranjana Adhikary     | 24. Avhijit Ghosh        |
| 7. Joly Roy                  | 16. Beauty Das             | 25. Subhankar Poddar     |
| 8. Mrinal Kanti Basak        | 17. Apabrita Bhattacharyya |                          |
| 9. Sushobon Deb Barman       | 18. Sujana Mandal          |                          |

**Details of Seminar/Conferences /Webinar Organised by the Department:**

| Name of the Teacher Coordinator | Name of the Seminar/Conference                           | Date           |
|---------------------------------|--|----------------|
| Nirmal Kumar Roy                | The Philosophy and Contribution of Contemporary Thinkers | 08-09-.01.2021 |



| <b>Name of the Teacher Coordinator</b> | <b>Name of the Seminar/Conference</b>  | <b>Date</b>   |
|--|--|---------------|
| Laxmikanta Padhi                       | National Webinar on Philosophy of Yoga in 21 <sup>st</sup> Century, sponsored by ICPR, New Delhi | 02.07.2020    |
| N. Ramthing                            | The Philosophy and Contribution of Contemporary Thinkers   | 08-09.01.2021 |
| Swagata Ghosh                          | ICPR Sponsored Three-day National Seminar on 'Logic: East and West'                              | 17-19.03.2021 |
| Mayank Bora                            | Logic and its Applications: East and West perspectives   | 17-19.03.2021 |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>      | <b>Name of the Seminars/Conference</b>   | <b>Date</b>   | <b>Title of the Paper presented</b>   |
|------------------|--|---------------|---|
| Debika Saha      | On Feminist Issues, organized by Mumbai University   | 27.05.2020    | Rethinking Women's Position through the Lens of Gargi: The Ancient Brahmabadins |
|                  | Delivered Welcome address as Chief Guest, organized by NBU   | 17.05.2020    | Covid-19 & Human Trafficking  |
| Kantilal Das     | National Webinar Seminar, organized by Malda Women's College   | 05.09.2020    | Yoga, Health and Covid-19   |
|                  | National Webinar on Ethics in Business and Public Relations: the Modern Paradox, organized by South Calcutta Girls College | 07.08.2020    | Business Ethics: Issues an Perspectives   |
|                  | National Webinar on Covid-19:some Philosophical Reflections, organized by Burdwan University                               | 13.08.2020    | Covid- 19: Existential Crisis and the Crisis of Humanity                        |
|                  | National Webinar on Religion, Morality and Violence: A Philosophical Exploration, organized by Raiganj University          | 03.09.2020    | Wittgenstein on Religion and Morality towards resolving Violence                |
| Nirmal Kumar Roy | Yoga and the Quest for Well-being, organized by Bankura Zill Saradamani Mahila Mahavidyapith                               | 03-04.07.2020 | The concept of Karma yoga and the Quest for Wellbeing                           |

| <b>Name</b>       | <b>Name of the Seminars/Conference</b>   | <b>Date</b>   | <b>Title of the Paper presented</b>   |
|-------------------|--|---------------|---|
|                   | Advaita Vedanta Theory of Perception & Role of Spiritual Thoughts in the Present Scenario, organised by Kaliyaganj College   | 20.08.2020    | Role of Spirituals Thought in present Scenario  |
|                   | Exploring Virtue Amidst Crisis, organised by Khalisani Mahavidyalay  | 15.09.2020    | Attended  |
| Anirban Mukherjee | Women of Achievement in Academia, organized by Mumbai University   | 27.05.2020    | Making Sense of Gayatri Chakravorty Spivak  |
|                   | Revisiting the Vision of Mahatma Gandhi, organized by Jadavpur University  | 17.12.2020    | The Crux of Gandhi or How to Read Gandhi as Philosopher                                     |
|                   | Determinacy and Indeterminacy in Meaning: From Wittgenstein's Perspectives, organized by University of Gour Banga  | 13-14.10.2020 | Wittgenstein and the Social Bubble: Recovering Meaning, Truth and Agency                    |
| Laxmikanta Padhi  | National Level Virtual Symposium on the New Education Policy, organized by Rabindra Bharati University   | 17.08.2020    | Some Observations on the New Education Policy, 2020   |
|                   | National Webinar on Modern Lifestyle, organized by Gazole Mahavidyalaya, Malda   | 24.08.2020    | Dharma: Debates and Perspectives  |
|                   | Online Special lecture in the National Webinar, organized by Kazi Nazrul College, Muraroi  | 22.09.2020    | The Concept of Dharma in the Mahabharata  |
|                   | Two lectures in the Refresher Course in Law, themed 'Role of Law in the Globalised World', organized by UGC-HRDC-NBU   | 25.11.2020    | Law (Dharma), Morality and Justice: Some Observations                                       |
|                   | Two lectures on Some Issues in Euthanasia / Mercy Killing in the FIP-1 and Is Eco-feminism Feasible in 21 <sup>st</sup> Century? in the Refresher Course on Women Studies (RC-WS), organized by UGC-HRDC-NBU | 16.12.2020    | Digital platform at the UGC – Human Resource Development Centre, University of North Bengal |
|                   | ICPR Sponsored One-day Periodical Lecture programme on "Man-   | 13.02 2021    | Does Environmental Ethics solve the   |

| Name                   | Name of the Seminars/Conference  | Date          | Title of the Paper presented  |
|------------------------|--|---------------|---|
|                        | Environment Interdependence and Sustainable Development", organized by Barasat Government College  |               | environmental Problems and Solve the World?   |
|                        | ICPR Sponsored Periodical Lecture and International Webinar On Necessity of Yoga in Modern Lifestyle, organized by Debra Thana Sahid Kshudiram Smriti Mahavidyalaya  | 24.03.2021    | Philosophy of Yoga  |
| Swagata Ghosh          | Delivered invited online lecture at the Webinar on Pandemic and Philosophical Insight, organized by Karimpur Pannadevi College   | 05.08.2020    | 'Dealing with Mental Health during the Pandemic: Approaches from Philosophical Counseling |
|                        | Delivered invited lecture at ICPR – Sponsored Three-day National Seminar on 'Logic: East and West' organized by the Department of Philosophy, University of North Bengal   | 17-19.03.2021 | An Epistemic Study of the Sāṃkhya System of Logic   |
| Anureema Bhattacharyya | 5 <sup>th</sup> International Conference on Integrated Approaches on research in Humanities and Social Sciences, organized by Kaash Foundations Centre for Academic and Professional Development in collaboration with University of Alzahra, Iran and Chinmaya Vishwavidyapeeth Veliyanad | 03.06.2020    | Putnam's rejection of the fact-value dichotomy- A neo-naturalist approach                 |
|                        | Seven Days Online National Workshop on Understanding Logical Positivism Through Ayer's language, Truth and Logic, organized by Vasanta College for Women   | 05-11.06.2020 | Attended  |
|                        | National webinar on Post Corona Culture and Women, organized by University of Mumbai and Bhartiya Mahila Darshanik Parishad  | 15.06.2020    | Attended  |

| Name        | Name of the Seminars/Conference   | Date          | Title of the Paper presented                                      |
|-------------|---|---------------|---|
|             | National webinar on Philosophical Reflections on Covid-19, organized by Agurchand Manmull Jain College                                    | 15.06.2020    | Attended  |
|             | Online Lecture Series on Critical thinking, organized by East Calcutta Girls' College   | 17-19.06.2020 | Attended  |
|             | One Week Workshop on Managing Stress in Covid-19 Through Yog and Lifestyle, organized by Bhagat Phool Singh Mahila Bishwavidyalaya and IC | 04-10.07.2020 | Attended  |
|             | Webinar on Women empowerment and Gender Justice in India: Issues and Challenges, organized by Aligarh Muslim University                   | 18.07.2020    | Gender justice & Sustainable Relationships- An Examination        |
|             | Two days National Webinar on 'Yoga and Wellness in the Context of Covid-19, organized by Gobinda Prasad Mahavidyalaya, Bankura            | 18-19.07.2020 | Yoga- A process of Self Transformation in the Context of Covid-19 |
|             | Three days National Seminar on Logic: East and West, organized by NBU   | 17-19.03.2021 | Deriving 'Ought' from 'is': A Fallacious Inference?               |
| Mayank Bora | Three days National Seminar on Logic: East and West, organized by NBU   | 17-19.03.2021 | Multiple Conclusion LP and Classical Recapture                    |

### Publications:

| Name of the author(s) | Name of the Book/Journal/Volume   | Year |
|-----------------------|---|------|
| Kantilal Das          | Wittgenstein on Religious Language and Value, Book: <i>The Nature of Reality: Philosophical Discourse in Language, Religion and Culture</i> , Eds. J. Saha, J.Ghosh and P. Jha, Levant Books, pp. 103 - 111 | 2020 |
|                       | Putnam on the Magical Theory of Reference, <i>Philosophy and Life World</i> , Vol.23  | 2020 |

| Name of the author(s) | Name of the Book/Journal/Volume  | Year |
|-----------------------|--|------|
| Jyotish Chandra Basak | Decoding Democracy, Book: <i>Conditions for Becoming a Democratic State</i> , Eds. Prof. Samar Kumar Mondal, Jadavpur University, Kolkata  | 2020 |
|                       | Artha: it's meaning and aetiology of its emergence as central purusārth, <i>Philosophical Papers</i> , Vol. XVII, pp. 65-83)   | 2021 |
| Nirmal Kumar Roy      | Revisiting the Buddhist Concept of Pramāṇa Book: <i>The Engaged Intellect Essays on the Philosophical Perspectives of Raghunath Ghosh</i> , Levant Books, Kolkata, ISBN No. 978-93-88069-66-3, pp.- 134-145                              | 2020 |
|                       | True Buddhism in the Eye of Swami Vivekananda, Book: <i>Multidimensional Personality of Swami Vivekananda</i> , Eds. Dr. Bonani Sinha & Abhishek Choudhury, Booksclinic Publishing, Chhattisgarh, ISBN No. 978-81-94935-83-4, pp.- 33-42 | 2021 |
| Koushik Joardar       | Ami Kibhabe achi (on Heidegger's concept of being), Book: <i>Ebang Mushayera</i>   | 2021 |
| Laxmikanta Padhi      | Is Arthaśāstra a Dharmaśāstra? <i>Thai Prajñā</i> (an International Journal of Indology and Culture Journal) Volume IV, (ISSN 2586-9671)   | 2020 |
|                       | What Makes a Human Being Valuable? <i>Jnanadeepa</i> : Pune Journal of Religious Studies, 24 (2), pp. 28–41.   | 2020 |
|                       | Advaita Vedānta and Environmental Ethics: Some Critical Observations, <i>Summer-Hill</i> , Indian Institute of Advanced Studies, Shimla, 26:1, pp.65-70 (ISSN: 0972-1452)  | 2020 |
|                       | Morality and its Value in Human Being: An Indian Approach, Book: <i>The Engaged Intellect: Essays on the Philosophical Perspectives of Raghunath Ghosh</i> , Eds. Jahdeswar Ghosh, Levant Books, Kolkata, p.215-231                      | 2020 |
|                       | Eco feminism: Debates and Dimensions, in <i>JAOPA</i> , Vol. VII, No. I, p. 49-62  | 2021 |
| N. Ramthing           | Kant's Morals and Respect for Persons, <i>JINĀSĀ - a Philosophical Journal</i> , Vol. VI, ISBN: 978-93-5593-141-2  | 2021 |
| Swagata Ghosh         | The Contrast Between the Natures of the Binary in Sāṅkhya Philosophy: Some Observations, <i>Philosophical Papers</i> , Vol. XVII, pp. 363-372, ISSN:-0976 4496   | 2021 |

| <b>Name of the author(s)</b> | <b>Name of the Book/Journal/Volume</b>  | <b>Year</b> |
|------------------------------|---|-------------|
|                              | Gettier's Objection and Lehrer's Solution Concerning the Problem of Knowledge: An Analysis based on the Logical Structure of Cognition, Book: <i>Language, Meaning and Interpretation: East and West</i> , Northern Book Centre, New Delhi, 2021, ISBN: 81-7211-383-1 978-81-7211-395-1 | 2021        |
| Anureema Bhattacharyya       | Semantic Import of Moral Terms: Cognitivism vs. Noncognitivism, <i>Philosophical Papers</i> , Vol. XVII, pp. 373-388, ISSN:-0976 4496   | 2021        |
| Mayank Bora                  | Justice and Responsibility in a Care Ethical Framework, Book: <i>Justice and Responsibility: Re-learning to be Human : Indian Philosophical Studies, XVII</i> , Eds. Balaganpathi Devarakonda and Sebastian Velassery, CRVP Publications  | 2021        |

#### Research Projects Details:

| <b>Title of the Scheme Project</b>   | <b>Name of the PI</b> | <b>Sanctioned Authority</b> |
|--|-----------------------|-----------------------------|
| Philosophical Foundations of Ancient Indian Political Thought  | Jyotish Chandra Basak | ICPR                        |
| A Comparative Study between 'Why I am not a Christian?' by Bertrand Russell and 'Why I am an Atheist?' by Bhagat Singh | Laxmikanta Padhi      | NBU                         |
| Fregean Identity without Fregean Contents (originally from 2019 to 2020, but extended upto 2021)                       | Mayank Bora           | NBU                         |

#### Visiting Fellow:

| <b>Sl. No.</b> | <b>Name of the Visiting Fellow</b> | <b>University/Institute</b>                                       |
|----------------|------------------------------------|---|
| 1.             | Prof. Paneer Selvam                | Dept. of Philosophy, Madras University                            |
| 2.             | Prof. Ramesh Chandra Sinha         | Former Chairman, ICPR   |
| 3.             | Prof. Sarat Chandra Panigrahi      | Dept. of Philosophy, Utkal University                             |
| 4.             | Prof. Raghunath Ghosh              | Former Professor, Dept. of Philosophy, University of North Bengal |
| 5.             | Prof. P.K. Mahapatra               | Former Professor, Dept. of Philosophy, Utkal University           |
| 6.             | Prof. S.R. Bhatt                   | Former Chairman, ICPR   |
| 7.             | Prof. Gopal Sahu                   | Head, Dept. of Philosophy, Allahabad University                   |

| <b>Sl. No.</b> | <b>Name of the Visiting Fellow</b> | <b>University/Institute</b>  |
|----------------|------------------------------------|--|
| 8.             | Prof. Ambika Datta Sharma          | Dept. of Philosophy, Dr. Harisingh Gour Vishwavidyalaya                                      |
| 9.             | Prof. Xavier P. Mao                | Dept. of Philosophy, North-Eastern Hill University   |
| 10.            | Prof. Adarasupally Nataraju        | Dean & Professor, Sarvepally Radhakrishnan School of Philosophical Studies, Assam University |
| 11.            | Prof. K.C. Pandey                  | Professor & Head, Dept. of Philosophy, Lucknow University                                    |
| 12.            | Prof. Pravesh Jung                 | Associate Professor, Dept. of Philosophy and Social Sciences, IIT Powai                      |
| 13.            | Prof. Gobinda Mishra               | Former Professor & Head, Dept. of Philosophy, Madras University                              |
| 14.            | Prof. Ramesh Chandra Pradhan       | Former Professor, Dept. of Philosophy, Central University, Hyderabad                         |
| 15.            | Prof. Ranjan Mukhopadhyay          | Former Professor, Dept. of Philosophy, Viswa-Bharati University                              |
| 16.            | Prof. Sachidananda Mishra          | Member Secretary, ICPR   |
| 17.            | Prof. Santosh Kumar Pal            | Professor and Former Head, Burdwan University  |
| 18.            | Prof. Sabita Samanta               | Professor & Former Head, Dept. of Philosophy, West Bengal State University                   |
| 19.            | Prof. Geeta Ramana                 | Professor & Former Head, Dept. of Philosophy, University Mumbai                              |

## DEPARTMENT OF POLITICAL SCIENCE

### About the Department:

The Department of Political Science is one of the oldest Departments with which North Bengal University began to cater to the needs of higher education in North Bengal and Sikkim since 1962. The Department revised PG syllabi in 2016 and introduced CBCS at the level of every semester for M.A. The Department also introduced CBCS for M. Phil and Ph. D. Course Work.

The students are assessed through continuous evaluation and 5% marks are reserved for attendance in every M.A. Semester. Students are also offered one practical Research Methodology training based on field survey. There are National Fellows working under the supervision of faculty. The Department has research programme under SAP DRS III.

A substantial number of scholars are pursuing their research works under the departmental PhD programme. The Faculty actively train teachers at the college level through workshops, refresher courses etc. at regular intervals. The Department also collaborates with the Centre for Himalayan Studies for the M.A. programme on Strategic & Area Studies, teaching of P.G. Diploma in Rural Development, Education & Extension with the Department of Lifelong Learning and research activities of the Centre for Women's Studies, NBU.

### Courses Offered:

- M. A.
- M. Phil
- Ph. D.

### Research Focus:

- Political Thought and Theory
- Political Economy of Development
- Public Administration
- Indian Politics
- Foreign Policy
- Strategic Studies

### Student Strength:

| Course | Year      | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|-----------|------|--------|-------|----|----|-------|-------|-----|
| MA     | Sem –I    | 36   | 50     | 86    | 33 | 11 | 10    | 12    | 20  |
| MA     | Sem - III | 19   | 53     | 72    | 23 | 14 | 5     | 10    | 20  |

### Faculty Details:

| Name               | Qualification | Designation | Email                |
|--------------------|---------------|-------------|----------------------|
| Prof. Sourmitra De | Ph. D         | Professor   | soumitrade@nbu.ac.in |



| Name                      | Qualification  | Designation      | Email                        |
|---------------------------|----------------|------------------|------------------------------|
| Prof. Arun Kanti Jana     | M.Phil., Ph. D | Professor        | arunkantijana@nbu.ac.in      |
| Prof. Ranjita Chakroborty | M.Phil., Ph. D | Professor        | ranjitachakroborty@nbu.ac.in |
| Shri Dyutis Chakrabarti   | M.A            | Assoc. Professor | dyutishc@gmail.com           |
| Dr. Ramesh Dural          | Ph. D          | Assoc. Professor | rameshdural@nbu.ac.in        |
| Prof. Rabi Bera           | M.A            | Asst. Professor  | rabibera@nbu.ac.in           |
| Prof. Souradeep Sen       | M.A            | Asst. Professor  | souradeepsen@nbu.ac.in       |
| Dr. Isha Tirkey           | M.Phil., Ph. D | Asst. Professor  | ishatirkey@nbu.ac.in         |
| Ms. Sovna Khati           | M.A. , M.Phil  | Asst. Professor  | sovnakhati@nbu.ac.in         |

#### Details of Non-Teaching Staff:

| Name                        | Qualification | Designation   |
|-----------------------------|---------------|---------------|
| Sri Ramprosad Bhattacharjee | Graduate      | Sr. Assistant |
| Sri Amiri Mandal            | Graduate      | Peon (Casual) |

#### Details of Student Fellowship:

| Name  | Fellowship Status      | Gender |
|---|------------------------|--------|
| Lob Singh (M.Phil 1 <sup>st</sup> Sem)      | UGC/NET/JRF            | Male   |
| Diksha Tamang (M.Phil 1 <sup>st</sup> Sem)  | UGC/NET/JRF            | Female |
| Narayan Barman (M.Phil 3 <sup>rd</sup> Sem) | State JRF/State Fellow | Male   |
| Sunandita Sur (M. Phil 4 <sup>th</sup> Sem) | State JRF/State Fellow | Female |
| Raja Lohar (M. Phil 1 <sup>st</sup> Sem)    | NFSC                   | Male   |

#### Name of Research Scholars:

- |                      |                   |
|----------------------|-------------------|
| a. Shanta Kerketta   | i. Laila Subba    |
| b. Amrita Roy Sarkar | j. Natasha Lama   |
| c. Biki Biswakarma   | k. Kamal Roy      |
| d. Chimme Tamang     | l. Nivia Goswami  |
| e. Purnima Roy       | m. Sanjib Lama    |
| f. Mithun Das        | n. Abinash Darnal |
| g. Archana Mandal    | o. Shakti Sharma  |
| h. Dipen Roy         |                   |

#### Name of Research Scholars (Without Fellowship):

- |                         |                        |
|-------------------------|------------------------|
| a. Purnima Roy (Ph. D.) | g. Raju Paul (M. Phil) |
|-------------------------|------------------------|

- |                               |                             |
|-------------------------------|-----------------------------|
| b. Monisha Ghosh (M. Phil)    | h. Pranajit Ghosh (M. Phil) |
| c. Nilima Chhetri (M. Phil)   | i. Shivani Subba (M. Phil)  |
| d. Manisha Tamang (M. Phil)   | j. Ismita Chhetri (M. Phil) |
| e. Prasenjit Thakur (M. Phil) | k. Kiran Thapa (M. Phil)    |
| f. Radhika Baghwar (M. Phil)  | l. Jagadish Roy (M. Phil)   |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name                | Details   | Date                          | Title of the paper presented   |
|---------------------|---|-------------------------------|--|
| Prof. R Chakraborty | Orientation Training Programme for Mentor of HEI, organised by NITTR, Kolkata   | 27.01.2021<br>–<br>04.02.2021 |  |
| Prof. A K Jana      | ICSSR sponsored webinar on Culture of Fear of World Politics: Origin and Ramifications, organised by Surya Sen Mahavidyalaya, Siliguri            | 23-<br>24.02.2021             | The Ascendance of Hindu Nationalism and the Consequent Escalation of Fear Among the Minority Muslims in India's Plural Society |
|                     | Special lecture organised by Tufanganj Mahavidyalaya, Cooch Behar   | 18.09.2020                    | State Response to COVID 19 pandemic and Federalism in India  |
|                     | Special lecture organised by Government General Degree College, Hooghly   |                               | Pandemic: Introspection from varied Perspectives of COVID 19 Pandemic and State Response in India.                             |
|                     | National Webinar on COVID 19: Impasses & Means to Overcome, organized by Bhawanipur Anchalik College in Collaboration with Salbari College, Assam | 09.08.2020                    | State Response to COVID 19 in India  |

**Publications:**

| Name of the Author    | Publication Details  | Year |
|-----------------------|--|------|
| Prof. Arun Kanti Jana | The State and Rural Development in Independent India: The Issue of Poverty Alleviation and Literacy, <i>Indian Journal of Adult Education</i> , ISSN 0019-5006 | 2020 |

| Name of the Author        | Publication Details   | Year |
|---------------------------|---|------|
|                           | Liberalisation of the Indian Economy and the Demand for Resources by State Governments in Federal India, Book: <i>Cooperative Federalism in India: Myth or Reality</i> , Ed. Saroj Kumar Verma, Victorious Publishers (India), p. 56 – 96, ISBN 978-93-87294-46-2 | 2021 |
| Prof. Ranjita Chakraborty | Political Trust, Democracy and the Pandemic: The Indian Scenario, Book: <i>COVID Narratives and Politics of New Normal</i> , Eds. Amit Rauth and K Arunlal, Athors Press, New Delhi   | 2021 |
|                           | Citizenship: Reflection on the Shifts and Fluidity, Book: <i>Citizenship, Illegal Migration and Politics</i> , p. 430 – 464, Adhyayan Books   | 2021 |
| Souradeep Sen             | "Review: Tackling Deterrence Uncertainty in South Asia," <i>National Security</i> , Vol. 3, No. 1 pp. 277-280, ISSN 2581-9658 (O)   | 2020 |
|                           | "Perilous Deterrent: Pandemic and the Consequent Re-evaluation of India's National Security," <i>National Security</i> , Vol. 3, No. 4 pp. 457-481, ISSN 2581-9658 (O)  | 2020 |
|                           | Bangladesh at SO : Development and Challenges, <i>Jadavpur Journal of International Relations</i> , 1-5   | 2021 |

#### Research Projects Details:

| Title of the Project  | PI                        | Sponsored by | Year of Sanction | Duration | Budget (Rs.) |
|---|---------------------------|--------------|------------------|----------|--------------|
| Free legal aid services and advocacy organizations: a review of the civil society organizations in the districts of Jalpaiguri, Alipurduar and Darjeeling | Prof. Ranjita Chakraborty | NBU          | 2020             | 1 year   | 1,00,000     |
| Measuring Women Empowerment: A study of Darjeeling Hills in the Context of Empowerment of Women Through Self Help Groups (SHGs)                           | Dr. Ramesh Dural          | NBU          | 2019             | 1 year   | 1,00,000     |

## DEPARTMENT OF SANSKRIT

### About the Department:

The Department of Sanskrit started its journey at the Jalpaiguri Campus, University of North Bengal with Master of Arts programme from 16<sup>th</sup> August 2013. The Department offers four optional specializations in the groups of Veda, Vyakarana, Darsana and Kavya in the Post Graduate level.

The Department organizes Seminar, Workshop and Lecture Programmes so as to enrich the students with curriculum beyond the Syllabus. Since inception the department has remained engaged in popularizing the Study of Sanskrit language and literature in the region. The Faculty Members regularly participate in different Faculty Development Program, Seminar, Workshop and Conference for improving their teaching skills in higher education. Simple Sanskrit speaking courses are regularly organized within and outside university campus to enable the learners speak in simple Sanskrit.

### Courses Offered:

- MA in Sanskrit

### Student Strength:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| MA     | 2021 | 11   | 35     | 46    | 30 | 04 | 04    | 03    | 05  |
|        | 2020 | 06   | 31     | 37    | 18 | 0  | 04    | 06    | 09  |

### Details of Course Completed by Students in 2020-21:

| Course | Year | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|------|------|--------|-------|----|----|-------|-------|-----|
| M. A.  | 2021 | 12   | 32     | 44    | 30 | 0  | 04    | 02    | 08  |

### Faculty Details:

| Name                   | Qualification   | Designation     | Email                           |
|------------------------|-----------------|-----------------|---------------------------------|
| Dr. Sudip Mandal       | M. Phil, Ph. D. | Asst. Professor | sudipmandal@nbu.ac.in           |
| Rafikul Alam           | M.A., M. Phil   | Asst. Professor | rafikulalam@nbu.ac.in           |
| Lagnajeeta Chakraborty | M.A., M. Phil   | Asst. Professor | lagnajeetachakraborty@nbu.ac.in |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>               | <b>Details</b>   | <b>Date</b>   |
|---------------------------|--|---------------|
| Lagnajeeta<br>Chakraborty | Webinar on Vedic & Ayurvedic sources of disease and cure for human welfare, organised by Chandidas Mahavidya | 20.06.2020    |
|                           | Webinar on Role of Ayurveda in present situation, organised by Mankar College                                | 02.10.2020    |
|                           | Webinar on Polity of the Mahabharata in the context of present perspective                                   | 21-23.09.2020 |

**Publications:**

| <b>Name of the Author</b> | <b>Publication Details</b>   | <b>Year</b> |
|---------------------------|--|-------------|
| Dr. Sudip Mandal          | <i>Vyasasri</i> , Vol. – XVII, ISBN - 2320-2025                      | 2021        |
| Dr. Sudip Mandal          | <i>Sodhanidhi</i> , Department of Sanskrit, University of Gour Banga | 2021        |

## DEPARTMENT OF SOCIOLOGY

### About the Department:

The Department of Sociology, initially as a combined Department of Sociology and Social Anthropology, was established in the year of 1976. In 2002 Anthropology was emerged as a separate Department the University and then onwards Department of Sociology progressed further on its own.

As part of PG curriculum the Department undertakes team field work with the students of final semester for two weeks every year. Besides teaching, the faculties are active in conducting research projects, writing research articles, books and project reports. The teachers participate in national and international seminars and workshops, visit academic institutions of repute within and outside the country, and participate in extension and administrative activities of this University and other Universities.

The Department undertakes the task of revising and updating the Post Graduate and undergraduate syllabi regularly. The Department has the distinction of producing a group of vibrant research scholars who have been actively involved in research and in taking part in Seminars/Conferences and Workshops held at different places within India as also in Nepal.

### Courses Offered:

- M. A.
- M. Phil.
- Ph. D.

### Research Focus:

- Urban Sociology
- Sociology of Religion and Health
- Refugee Studies
- Tribal Studies

### Student Strength:

| Course | Year    | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|--------|---------|------|--------|-------|----|----|-------|-------|-----|
| MA     | Sem I   | 9    | 36     | 45    | 10 | 6  | 1     | 7     | 21  |
|        | Sem III | 5    | 33     | 38    | 8  | 14 | 0     | 8     | 8   |

### Faculty Details:

| Name                  | Qualification | Designation     | Email                      |
|-----------------------|---------------|-----------------|----------------------------|
| Prof. Saswati Biswas  | M.A. , Ph.D.  | Professor       | saswatibiswas@nbu.ac.in    |
| Prof. Sanjay Roy      | M.A. , Ph.D.  | Professor       | sanjayroy@nbu.ac.in        |
| Ms. Priyanka Karmakar | M.A.          | Asst. Professor | priyankakarmakar@nbu.ac.in |

**Details of Non-Teaching Staff:**

| Name                 | Qualification | Designation        |
|----------------------|---------------|--------------------|
| Mr. Shambhu Das      | B. Com.       | Sr. Assistant      |
| Mr. Premananda Ghosh | M.P. (pass)   | Gr-D (Casual Peon) |

**Details of Research Scholars:**

| Name           | Fellowship Status | Supervisor's Name    | Gender | Date of Joining |
|----------------|-------------------|----------------------|--------|-----------------|
| Manita Subba   | NET JRF           | Prof. Sanjay Roy     | Female | 18.01.2016      |
| Renuka Rai     | MANF              | Prof. Sanjay Roy     | Female | 01.04.2016      |
| Pintu Majumdar | NFSC              | Prof. Saswati Biswas | Male   | 01.12.2020      |
| Pooja Gupta    | Non - NET         | Prof. Sanjay Roy     | Female | 16.12.2013      |

**Details of PhD Students (Without Fellowship):**

| Name                | Supervisor's Name | Gender | Date of Admission in Ph.D. Course Work |
|---------------------|-------------------|--------|--|
| Dichen Lamu Sherpa  | Prof. Sanjay Roy  | Female | 16.12.2013                             |
| Priyanka Karmakar   | Prof. Sanjay Roy  | Female | 07.12.2012                             |
| Sylvia Raha         | Prof. Sanjay Roy  | Female | 23.09.2011                             |
| Mau Basu            | Prof. Sanjay Roy  | Female | 02.01.2019                             |
| Niyati Rekha Sharma | Prof. Sanjay Roy  | Female | 16.12.2013                             |

**Details of Seminar/Conferences /Webinar Attended by Faculty:**

| Name                 | Details  | Date       | Title of the paper presented                      |
|----------------------|--|------------|---|
| Prof. Sanjay Roy     | International webinar organized by Birpara College, Jalpaiguri   | 14.08.2020 | Social Democracy in India: A Distant Dream        |
|                      | Webinar organized by Suryasen College, Siliguri  | 22.08.2020 | Life in Pandemic Time                             |
| Prof. Saswati Biswas | Lecture series on Culture and Personality organized by Birpara College jointly with Education and Cultural Station (ECS) Belur | 29.11.2020 | Patriarchy, Caste and the Development of the Self |
|                      | Lecture Series in Sociology organized by Sikkim University and Sikkim Manipal University                                       | 19.12.2020 | Gender and Society in North East India            |

| Name | Details   | Date       | Title of the paper presented            |
|------|---|------------|---|
|      | Third Faculty Induction Programme organized by the UGC-HRDC-NBU | 09.01.2021 | Society and the Development of the Self |

### Publications:

| Name of the Author   | Publication Details  | Year |
|----------------------|--|------|
| Prof. Sanjay Roy     | Anti-Positivism: A Critical Review of Social Science Knowledge, Book: Ethics and Objectivity in Anthropology, Ed. P. K. Misra, INCAA, p. 10-49, ISBN: 978-93-83008-25-6  | 2020 |
|                      | Aesthetic Imageries: A Look at the Ideas of Sartre and Levi-Strauss, <i>Social Trends</i> , Vol. 7, p. 232-241,  | 2020 |
|                      | The Partition Impact: Looking through the Prism of a Village Community in Present Bangladesh, Book: <i>Boundaries and Beyond: Studies in Trans-Border Communities and Cultures</i> , Eds. Kanchan Mukhopadhyay and Ratna Dhar, Bookwell, p. 97-115, ISBN 978-93-86578-57-0 | 2021 |
|                      | The Aesthetics of Living: The Deepening Crises, <i>Social Trends</i> , Vol. 8, p. 246-270, ISSN: 2348-6538   | 2021 |
| Prof. Saswati Biswas | Rising Hate Crimes in India: An Attempt at understanding the Social Context, <i>Kerala Sociologist</i> , Vol. 48, No.2   | 2020 |
| Priyanka Karmakar    | Missing Daughters: Social Perception and Treatment of Girl Child in India, <i>Social Trends</i> , Vol. 8, p. 169-182. ISSN: 2348-6538  | 2021 |

### Miscellaneous:

The Department publishes 'Social Trends', an annual peer reviewed journal of the Department of Sociology, North Bengal University, ISSN: 2348-6538





**CHAPTER – IV**  
**RESEARCH CENTRES**



## **BIOINFORMATICS FACILITY**

### **About the Centre:**

The science of Bioinformatics, which is the melding of molecular biology with computer science, is essential to the use of genomic information in understanding human diseases and in the identification of new molecular targets for drug discovery. Bioinformatics involve the use of techniques including applied mathematics, informatics, statistics, computer science, artificial intelligence, chemistry, and biochemistry to solve biological problems. Major research activities in the field include sequence alignment, gene finding, genome assembly, protein structure alignment, protein structure prediction, prediction of gene expression and protein-protein interactions, and the modeling of evolution.

The Bioinformatics Facility of the University of North Bengal was established in November 2006 with the help of the grant from the Department of Biotechnology, Govt. of India. Since then the facility has marched forward steadily. The Centre has every modern facility of information and communication including necessary hardware and software and provides access to the faculty members, research scholars and students from nearby universities, colleges and research institutions interested in working in the field of bioinformatics.

The Coordinator's group is actively engaged in research in the field of genomics and proteomics of nitrogen fixing bacteria and food pathogenic bacteria. Protein structure prediction, biological sequence analysis, phylogenetic study, molecular modeling and molecular docking are the major thrust areas.

### **Recent Projects Conducted by the Centre:**

- Indo-Tunis Project on “Phytoremediation of Heavy Metal-Contaminated Soils in Tunisia and India using Frankia-Alnus symbiosis”.
- A Bioinformatics perspective to impede the tubercle bacillus (TB) devastation in West Bengal
- Sequencing and analysis of FIVE Frankia genomes, Sponsored by US Department of Energy
- Development of novel methodology for understanding the mechanism of nitrogen fixation through codon usage analysis related genes and protein structure modeling of relevant gene product (protein) and its implication, sponsored by the DBT, Govt. of India
- DST sponsored project for production of transgenic tea for fungal resistance
- UGC sponsored project on detection of best Alder-Frankia symbiosis using molecular markers

**Centre Coordinator:**

| Name            | Qualification | Email               |
|-----------------|---------------|---------------------|
| Prof. Arnab Sen | Ph. D.        | arnab.sen@nbu.ac.in |

**Publications:**

| Authors  | Publication Details  | Date |
|--|--|------|
| Sarkar I, G Sen, M Bhattachariya, S Bhattacharyya and A Sen                          | In silico inquest reveals the efficacy of Cannabis in the treatment of Post-Covid-19 related neuro-degeneration, <i>Journal of Biomolecular Structure and Dynamics</i> , Vol. 40, Issue 17, ISSN: 1538-0254  | 2021 |
| Kar P, Banerjee S, Chhetri A, Sen A  | Synthesis, physicochemical characterization and biological activity of synthesized Silver and Rajat Bhasma nanoparticles using medicinally important Clerodendrum inerme, <i>Journal of Phytology</i> , Vol 13, ISSN: 2075-6240  | 2021 |
| Banerjee S, Kar P, Sarkar I, Chhetri A, Mishra DK, Dutta A, Kumar A, Sinha B, Sen A. | Structural elucidation and chemical characterization of underutilized fruit silverberry ( <i>Elaeagnus puyifformis</i> ) silver nanoparticles playing a dual role as anti-cancer agent by promoting apoptosis and inhibiting ABC transporters, <i>South African Journal of Botany</i> , Vol. 145, pp. 243-257, ISSN: 0254-6299 | 2021 |
| Lala, M, D Modak, S Paul, I Sarkar, A Dutta, A Kumar, S Bhattacharya and A Sen       | Potent bioactive methanolic extract of wild orange ( <i>Citrus macroptera</i> Mont.) shows antioxidative, anti-inflammatory, and antimicrobial properties in in vitro, in vivo, and in silico studies, <i>Bulletin of the National Research Centre</i> , 44, Article No. 81, ISSN: 2252-8307                                   | 2020 |
| Kar P, Dutta S, Chakraborty AK, Bhattacharya M and Sen A                             | Leaf extract of ethnomedicinally important Bharangi ( <i>Clerodendrum serratum</i> ) may improve neuromodulatory activity in mice model, <i>Indian Journal of Traditional Knowledge</i> , Vol. 19, No. 4, ISSN: 0975-1068  | 2020 |
| Labar R, Kar P, Biswas P, Sen A, Bhattacharya M                                      | Evolution of matK Gene among the Elite Tea Clones ( <i>Camellia sinensis</i> ) Revealed by Nucleotide Substitution within the Consensus Region, <i>Journal of Applied Biology and Biotechnology</i> , DOI: 10.7324/JABB.2021.9105, ISSN: 2347-212x   | 2020 |

| <b>Authors</b>  | <b>Publication Details</b>  | <b>Date</b> |
|---|---|-------------|
| Kar P, V Kumar, B Vellingiri, A Sen, et.al.               | Anisotine and amarogentin as promising inhibitory candidates against SARS-CoV-2, <i>Journal of Biomolecular Structure and Dynamics</i> , DOI: 10.1080/07391102.2020.1860133, ISSN: 1538-0254  | 2020        |
| Sarkar I and A Sen  | In silico screening predicts common cold drug Dextromethorphan along with Prednisolone and Dexamethasone can be effective against novel Coronavirus disease (Covid-19), <i>Journal of Biomolecular Structure and Dynamics</i> , DOI: 10.1080/07391102.2020.1850528, ISSN: 1538-0254 | 2020        |
| Kar P, Sharma NJ, Singh B, Sen A and Roy A                | Natural compounds from Clerodendrum spp. as possible therapeutic candidates against SARS-CoV-2: an in silico investigation), <i>Journal of Biomolecular Structure and Dynamics</i> , 39(13), ISSN: 1538-0254  | 2020        |
| Kar P, Mishra D, Roy A, Chakraborty AK, Sinha B and Sen A | Elucidation of phytomedicinal efficacies of Clerodendrum inerme (L.) Gaertn. (Wild Jasmine), <i>South African Journal of Botany</i> , Vol 140, pp. 356-364, ISSN: 0254-6299   | 2021        |

## CENTRE FOR FLORICULTURE & AGRI-BUSINESS MANAGEMENT

### About the Centre:

The Centre for Floriculture & Agri-Business Management (COFAM) was initially conceived as a research project on horticulture under aegis of the Department of Bio-Technology, North Bengal University. The idea behind the project was to promote horticulture in a region where it was not practiced on a regular basis, despite favourable soil and climate. A detailed proposal was then prepared and a request for funds was processed through the then Department of Food Processing, Government of West Bengal, to the Ministry of Commerce, Government of India. A grant of Rs. 2.74 crores were made available by the Ministry and the project was implemented in 2006.

After the project period was over, the University considered it as one of the best practices and decided to continue its functioning under the Department of Biot-Technology. Since then, COFAM has been undertaking demonstrative horticultural practices and extending core technology transfer to the growers and cultivators. At present the practice of COFAM is successful in popularizing cultivation of organic cauliflower, strawberry and dragon fruit in Nepal, Bhutan and Assam in addition to North Bengal.

COFAM is playing an instrumental role to bring back maximum number of deprived farmers especially women self-help group in the mainstream society and thus making them self-reliant by skilling them with innovative agriculture practices which yield more in short duration of time as compared to traditional chemical based method. COFAM has introduced high value cash crops like strawberry, capsicum, lettuce, broccoli, cherry tomatoes, pak-choy, basil, early cauliflower; etc. which does not require huge capital but gives high return. These organically produced crops have high demand in the urban areas and also fetch high revenue for the farmers, keeping this in view, COFAM has been Organizing a “the Sunday hat” on every Sunday from 10 am to 2 pm without any middle-men to bridge the gap between the farmers and consumer.

### Research Focus:

- Tissue culture activities
- Pearl farming
- Scaling up of vermicomposting to the industrial level

### Details of Non-Teaching Staff:

| Name                 | Qualification                  | Designation            |
|----------------------|--------------------------------|------------------------|
| Sri Amrinder Pandey  | M. Sc. (Horticulture) Perusing | Practical Demonstrator |
| Sri Ranjan Sarkar    | B.A.                           | Office Assistant       |
| Smt. Swati Chowdhury | B.Sc                           | Laboratory Attendant   |
| Sri Anil Sarki       | VIII                           | Field Man              |

| Name           | Qualification | Designation              |
|----------------|---------------|--------------------------|
| Niranjan       | B.A.          | Multipurpose field Staff |
| Maloy Singha   | H.S.          | Multipurpose field Staff |
| Biswajit Singh | B.A.          | Multipurpose field Staff |
| Subhash        | VIII          | Multipurpose field Staff |
| Arup Ghosh     | M.A.          | Multipurpose field Staff |

### Activities of the Centre:

The activities conducted by the Centre in 2020 -21 are given below –

- Internship on Floriculture, Landscaping & Organic farming for M.Sc. (Horticulture) Students of Amity University.
- Develop Rohini under Kurseong Sub Division as sustainable Agro-Tourism Place as farmers and SHGs of this village have started cultivation of Strawberries, Sweet Corn, Capsicum and other exotic vegetable under the Technical guidance of COFAM.
- Delivered lecture on activities of COFAM in the area of North Bengal and Bihar – Bengal border regions to improve the livelihood of rural people through sustainable exotic farming. Seminar was presided over by Prof. Sobti, NAAC Member & adviser to Governor of Bihar and Hon’ble Vice Chancellor, Patna University.
- Developed Discover Hills as a startup in agro-tourism destination in Kalimpong District under entrepreneurship of Mr Prasanta Pattadar
- Successfully standardized the cultivation practices for roof-top gardening of low chilling apple variety HRMN-99 in Siliguri.
- Successfully standardized the protocol of Gundruk preparation in Naxalbari block for self-employment generation.
- Successful cultivation of non-practical fruit crop of Amazon forest ‘Zabatic’ in Gazoldoba area of Jalpaiguri
- Hands on Practical Training on seedless eggplant (brinjal) for terrace gardening.
- Success introduction of purple variety of potato (Neelkantha), a variant which is good for diabetic patients, in Naxalbari Block.
- Exposure visit by 25 farmers of Mirik and Phansidewa Block in COFAM under “AADMI” Project of Govt. of West Bengal on 19.03.2021
- Exposure visit to “Yovan” cryonic factory unit in Salbari, Darjeeling.
- Developed integrated farming in Hatighisa for dragon fruit, Khakhi camphell duck, fisheries



- Successful cultivation of seedless eggplant and papaya (Taiwan variety) in Naxalbari Sapling
- Successful cultivation of Strawberry in one bigha of land in Patiramjote, Matigara.
- Successful cultivation of organic watermelon in Satbhaiya, Naxalbari Block.
- Delivered lecture on Organic Preparation for Tea plantation., organized by Siliguri Merchant Association
- Delivered lecture on exotic vegetable cultivation under protected condition (Green House) by SHGs and farmers, organized by W.B.C.A.D.C. Ministry of P&RD, Govt. of West Bengal
- Organized strawberry festival in the “The Sunday Haat” Church Road, Siliguri on 14<sup>th</sup> February, 2021.
- Exposure visit by the FPO Member of Mirik Block on 19.09.2020 to understand technical knowhow on organic farming.
- Seminar on flower cultivation in Kanchenjunga Stadium organized by Siliguri Horticulture Society and District Horticulture Office under technical support of COFAM.
- Provided plantlet and seeds to blind school in Bidhannagar for their livelihood and employment generation.
- Established Azolla farming Model in Milan More, Devidanga region under Matigara block, for demonstration

## CENTRE FOR HIMALAYAN STUDIES

### About the Centre:

The Centre for Himalayan Studies, University of North Bengal is an Area Studies Centre funded by the University Grants Commission under Area Studies Programme. It was established on 11<sup>th</sup> December, 1978. Since its inception the Centre's research strategy has been aimed mainly at studying the Himalayan history, geography, economy, society, polity in general and the environment, development, people and culture in particular in the Eastern Himalayan region. The Centre has regular M. Phil. and Ph. D. programmes in Himalayan Studies/Area Studies.

Since 2005, the Centre has started a two-year post-graduate programme in Strategic and Area Studies. The course is multi-disciplinary, and honours graduates from all branches of Social Science, namely, History, Geography, Economics, Political Science, Sociology can join the course. In addition, graduate defense personnel can also take admission.

The Centre receives grant from the University Grants Commission under its Area Studies Programme. The grant is utilized by undertaking various field-based research projects, inviting visiting faculty from different parts of the country, organizing seminars and special lectures, purchasing books, journals, documents and equipment, publishing journals and serials. The Centre has a Documentation Cell which collects and stores published and unpublished documents, e-resources, newspaper clippings, periodicals, journals and books on the Eastern Himalayas and caters to eclectic researchers interested in Himalayan Studies.

### Courses Offered:

- MA in Strategic and Area Studies
- M. Phil.
- Ph. D.

### Research Focus:

- Social, Politico and Economic issues in Bhutan, Sikkim, Darjeeling Hills, Arunachal Pradesh and adjoining areas of Tibet Autonomous Region.

### Year-wise Student Strength:

| Course   | Male | Female | Total | SC | ST | OBC-A | OBC-B | Gen |
|----------|------|--------|-------|----|----|-------|-------|-----|
| MA Sem I | 6    | 7      | 13    | 3  | 3  | -     | -     | 7   |

### Faculty Details:

| Name                | Qualification | Designation |
|---------------------|---------------|-------------|
| Karubaki Datta      | MA, PhD       | Professor   |
| Maitreyee Choudhury | MA, PhD       | Professor   |

| <b>Name</b>         | <b>Qualification</b> | <b>Designation</b>  |
|---------------------|----------------------|---------------------|
| Swatahsiddha Sarkar | MA, M. Phil, PhD     | Professor           |
| Ujjwal Bhui         | MA, PhD              | Professor           |
| Binayak Sundas      | MA, M. Phil, PhD     | Assistant Professor |
| Adwitya Thapa       | MA, M. Phil          | Assistant Professor |

**Details of Officer:**

| <b>Name</b>     | <b>Qualification</b> | <b>Designation</b>    |
|-----------------|----------------------|-----------------------|
| Sri Apurba Paul | MA, MLIS             | Documentation Officer |

**Details of Non-Teaching Staff:**

| <b>Name</b>        | <b>Qualification</b> | <b>Designation</b>                           |
|--------------------|----------------------|--|
| Sri Manotosh Ghosh | HS                   | Junior Office Assistant cum Typist (Group C) |
| Smt. Munna Mangar  | Primary              | Senior Peon                                  |
| Sri Ajay Takur     | Graduation           | Group D (Casual)                             |

**Details of Research Scholars:**

| <b>Name</b>          | <b>Fellowship Status</b> | <b>Supervisor's Name</b> | <b>Gender</b> | <b>Date of Joining</b> |
|----------------------|--------------------------|--------------------------|---------------|------------------------|
| Ratna Saha           | State Fellowship         | Prof. M Choudhury        | Female        | 02/12/2020             |
| Ambika Rai           | State Fellowship         | Dr. B Sundas             | Female        | 29/06/2021             |
| Ritu Mangar          | State Fellowship         | Prof. U Bhui             | Female        | 02/01/2019             |
| Suman Bhattacharya   | State Fellowship         | Prof. S Sarkar           | Female        | 19/04/2021             |
| Santu Law            | State Fellowship         | Prof. K Datta            | Male          | 02/03/2022             |
| Elen Tshering Lepcha | MANF                     | Prof. U Bhui             | Male          | NA                     |

**Details of PhD Students (Without Fellowship):**

| <b>Name</b>       | <b>Supervisor's Name</b>  | <b>Gender</b> | <b>Date of Registration</b> |
|-------------------|---------------------------|---------------|-----------------------------|
| Jayashree Dey     | Prof. Maitreyee Choudhury | Female        | 12/09/2016                  |
| Aditya Subba      | Prof. Maitreyee Choudhury | Male          | 10/09/2015                  |
| Anuraj Sarkar     | Prof. Maitreyee Choudhury | Male          | 15/03/2019                  |
| Nirmalendu Barman | Prof. Maitreyee Choudhury | Male          | 02/12/2020                  |

| <b>Name</b>            | <b>Supervisor's Name</b>  | <b>Gender</b> | <b>Date of Registration</b> |
|------------------------|---------------------------|---------------|-----------------------------|
| Karma Samten Bhutia    | Prof. Karubaki Datta      | Male          | 28/11/2018                  |
| Minakshee Kumari       | Prof. Karubaki Datta      | Female        | 29/09/2019                  |
| Suresh Subba           | Prof. Karubaki Datta      | Male          | 29/12/2019                  |
| Phupu Wandhi Bhutia    | Prof. Karubaki Datta      | Male          | 28/06/2021                  |
| Persis Mukhia          | Prof. Ujjwal Bhui         | Female        | 27/05/2019                  |
| Yashmin Bhandari       | Prof. Ujjwal Bhui         | Female        | 31/08/2020                  |
| Dipika Lama            | Prof. Ujjwal Bhui         | Female        | 07/01/2021                  |
| Sourav Pradhan         | Prof. Ujjwal Bhui         | Male          | 19/03/2021                  |
| Tshering Choden Bhutia | Prof. Ujjwal Bhui         | Female        | 30/12/2019                  |
| Somoshree De           | Prof. Swatahsiddha Sarkar | Female        | 01/01/2020                  |
| Debaditya Datta        | Dr. Binayak Sundas        | Male          | 26/11/2020                  |

#### **Details of Seminar/Conferences /Webinar Organised:**

| <b>Name of the Seminars/Conferences</b>  | <b>Date</b> |
|--|-------------|
| Colloquium entitled "Indigenous youth and decolonial futures in Dzongu, North Sikkim, and the Navajo Nation"           | 08.01.2021  |
| Colloquium entitled "Ambiguous Wealth: The Sentience and Affordances of Yartsa Gunbu in the Bhutan Highlands"          | 15.01.2021  |
| Colloquium entitled "Decolonizing Development in Nepal: Tragedies, Subjugations, and the Conjuncture of Possibilities" | 22.01.2021  |
| Webinar entitled "Tourism, Development and Himalayan Futures: Disparities and Imaginaries"                             | 29.01.2021  |
| Colloquium entitled "Journeying Sovereignties in the Himalayas"  | 05.02.2021  |

#### **Details of Seminar/Conferences /Webinar Attended by Faculty:**

| <b>Name</b>         | <b>Name of the Seminars/Conferences</b>  | <b>Date</b> | <b>Title of the Paper Presented</b>  |
|---------------------|--|-------------|--|
| Maitreyee Choudhury | National Webinar on Water Diplomacy in South Asia, jointly organized by the Sikkim University, IIT Guwahati and Pondicherry University | 15.07.2020  | Water Diplomacy in South Asia: Regional Actors with reference to Brahmaputra Basin |
| Swatahsiddha Sarkar | National Webinar on "Rethinking the notions of Nation and Space: Alternative Musings of modernity from the Global South", organised by | 29.08.2020  | Freeing Himalaya from the Nation 'Grid'  |

| Name                | Name of the Seminars/Conferences                        | Date       | Title of the Paper Presented   |
|---------------------|---|------------|--|
|                     | Maynaguri College and Dhupguri Girls College            |            |  |
| Swatahsiddha Sarkar | Online Lecture, organised by Salesian College, Siliguri | 23.08.2020 | Language & Literature as perspective in understanding the Darjeeling Hills |

### Publications:

| Author              | Publication Details   | Year |
|---------------------|---|------|
| Maitreyee Choudhury | Hydor-deplomacy and Water Cooperation between India and Bhutan, Book: <i>Indo-Bhutan Relations</i> , Ed. Ratna Paul, Abhijeet Publications, Delhi   | 2021 |
| Ambika Rai          | Life of the Workers in an Abandoned Tea Plantation in North Bengal, <i>Social Trends</i> , Vol 7. ISSN: 2348-6538. pp. 192-209.   | 2020 |
| Santu Law           | Sand Mining and Dairying as Additional Livelihood in Nagatentul and Kenjera Villages of Indas CD Block of Bankura District, West Bengal, <i>Indian Journal of Spatial Science</i> , 11(2), pp.123 – 132 | 2020 |
| Swatahsiddha Sarkar | Social Change and Social Movements: Issues of leadership and Ideology, Book: <i>Social Movements: Concepts, Experiences and Concerns</i> , Ed. Biswajit Ghosh, Sage Publications, Chapter IV, pp. 68-85 | 2020 |
| Swatahsiddha Sarkar | The Idea of a University in India, <i>Economic and Political Weekly</i> , Vol. 55, No. 14, pp. 21-24  | 2020 |

### Research Projects Details:

| Title of the Project   | PI                        | Project Duration | Sponsored by               | Year of Sanction | Budget (Rs.) |
|--|---------------------------|------------------|----------------------------|------------------|--------------|
| "Mountains as Episteme: Towards A Historical Sociology of Himalayan Studies" | Prof. Swatahsiddha Sarkar | 1 year           | University of North Bengal | 2020             | 1,00,000     |

### Miscellaneous Events:

- Prof. Swatahsiddha Sarkar has edited *The Himalayan Miscellany: An Area Studies Journal in Social Sciences* (ISSN 0970-4922) double issue Vol. 28 & 29 published in 2020.

- Prof. Swatahsiddha Sarkar has reviewed research articles for *Economic and Political Weekly*, *Asian Ethnicity*, *Indian Anthropologists*, *Studies in Nepali History and Society* during 2020-2021.
- Prof. Swatahsiddha Sarkar has examined M.Phil. and PhD thesis of Sikkim University and Delhi University during 2020-2021
- Prof. Swatahsiddha Sarkar has published an Op-Ed in *The Hindu* (June 29, 2020) entitled “In border claims, reimagining South Asia’s boundaries”

## CENTRE FOR STUDIES IN LOCAL LANGUAGES AND CULTURES

### About the Centre:

The Centre for Studies in Local Languages and Cultures was established in May 2001 by the University of North Bengal with the broad aim to capture and highlight the spectrum of plurality and richness of the ethnic languages and culture of North Bengal and in the process to become a platform for study and research.

North Bengal offers a scenario of immense diversity of cultures, ethnicities, languages and histories, existing here over a very long stretch of time. There was a strong demand that the University should take effective steps to preserve and conserve this heritage as well as initiate research into the various languages and cultures of the region. It was also felt to be an imperative to promote interaction with the people and artists of the various ethno-linguistic communities of the vast cultural terrain. To meet these basic objectives, the Centre for Studies in Local Languages and Cultures was set-up at the University of North Bengal in 2001.

The Centre carries out research and field work on the local language of the region, while the folk cultural side consisting of folklore, folk arts, folk crafts, rituals, festivals, folk tales, folk dramas, proverbs, and so on are taken care of by the cultural unit of the Centre. The Centre has been actively organizing cultural meets, seminars, workshops, special lectures and hands on training to promote various ethno-linguistic communities of the massive cultural topography.

### Faculty Details:

| Name                | Qualification | Designation | Email                 |
|---------------------|---------------|-------------|-----------------------|
| Dr. Koushik Joardar | M.A, Ph. D    | Director    | koushikjrdr@gmail.com |

### Details of Non-Teaching Staff:

| Name            | Qualification | Designation       |
|-----------------|---------------|-------------------|
| Jolly Majumdar  | MA, BLIS, BCA | Project Assistant |
| Chandan Mallick | Madhyamik     | Peon              |

### Details of Seminars/Conferences/Webinar Organized:

| Name of the Seminar/Conference/<br>Webinar               | Date          | No. of<br>Participants | Expenditure<br>(Rs.) |
|--|---------------|------------------------|----------------------|
| Webinar on Culture and Social Relations                  | 24.11.2020    | 50                     | 8,000                |
| Workshop on Dhimal Language (Bhasa<br>Porichoy Series-1) | 15-17.01.2021 | 20                     | 25,000               |

| <b>Name of the Seminar/Conference/ Webinar</b>                       | <b>Date</b> | <b>No. of Participants</b> | <b>Expenditure (Rs.)</b> |
|--|-------------|----------------------------|--------------------------|
| A Special Lecture by Prof, Ananda Mitra, Wake Forest University, USA | 03.02.2021  | 50                         | 2,000                    |
| Kobi o Kobita, jointly organized by Philosophy, CSLLC                | 18.03.2021  | 80                         | 30,630                   |
| Thakur Panchanan Barma Memorial Lecture (online)                     | 25.03.2021  | 50                         | 15,100                   |

**Publications:**

| <b>Name of the Author</b>                              | <b>Publication Details</b>   | <b>Year</b> |
|--|--|-------------|
| Editors: Dr. Koushik Joarder and Prof. Dipak Dumar Roy | Dhimal Language (Bhasa Porichoy Series-1) Book   | 2021        |
| Prof. Dipak Dumar Roy                                  | Tarai Anchaloer lokosanskriti  | 2020        |
| Dr. Dahlia Bhattacharya                                | The Dhimal of Sub-Himalayan Bengal: A Socio Economic and Cultural Study of the Community | 2020        |



## CENTRE FOR WOMEN'S STUDIES

### About the Centre:

The Centre demonstrates a mastery of the subject by detailed engagement with evolution, development, and current practices in the field of Women's Studies. The guest teachers on the teaching panel have international publications and visits to their credit. Some of them are engaged in collaborative work with the university and in projects in universities abroad. The Centre aims to produce a regular output of brilliant students and researchers.

The curriculum covers specialized knowledge about Conceptualizing Women's Studies and Research, gain exposure to Women's Methodology and Pedagogy, understanding of Feminist Theories, knowledge about Women's Rights and Law.

### Course Offered:

- M. A. in Women's Studies

### Faculty Details:

| Name                   | Qualification | Designation                                    | Email                 |
|------------------------|---------------|--|-----------------------|
| Prof. Debika Saha      | M.A, Ph. D    | Director, till 1 <sup>st</sup> November, 2020  | sahadebika@yahoo.com  |
| Dr. Zinia Mitra        | M.A, Ph. D    | Director, since 2 <sup>nd</sup> November, 2020 | ziniamitra@nbu.ac.in  |
| Dr Beethika Moni Dutta | M.Sc. Ph. D   | Assistant Professor                            | beethicws@yahoo.co.in |

### Details of Non-Teaching Staff:

| Name        | Qualification | Designation |
|-------------|---------------|-------------|
| Asit Singha | Madhyamik     | Peon        |

### Details of Seminars/Conferences/Webinar Organized:

| Name of the Seminar/Conference/ Webinar   | Date          | No. of Participants | Expenditure (Rs.) |
|---|---------------|---------------------|-------------------|
| ICSSR sponsored National Webinar on Adjusting to the New Normal: Women's Perspectives, organised by the Department in collaboration | 21-22.07.2020 | 300                 | 50,000/-          |

| <b>Name of the Seminar/Conference/ Webinar</b>  | <b>Date</b> | <b>No. of Participants</b> | <b>Expenditure (Rs.)</b> |
|---|-------------|----------------------------|--------------------------|
| with Hiralal Majumder Memorial College for Women, Kolkata, West Bengal  |             |                            |                          |
| UGC sponsored International Webinar on Gender and Development: Some emerging issues (In recent pandemic situation), organised by the Department in collaboration with Women's Studies Cell, COP Cooch Behar College | 21.07.2020  | 50                         | NA                       |
| <i>SCHOLARS' MEET</i> , organised by the Department in collaboration with <i>SCHOOL OF WOMEN'S STUDIES, JADAVPUR UNIVERSITY</i>   | 5-6.09.2020 | 50                         | NA                       |
| International Women's Day. Theme #ChooseToChallenge   | 08.03.2021  | 50                         | 3,750                    |
| Webinar on Women and Mental Health: Issues and Challenges   | 24.03.2021  | 50                         | 3,000                    |

**Publications:**

| <b>Name of the Author</b>           | <b>Details of Journal</b>                   | <b>Year</b> |
|-------------------------------------|---|-------------|
| Zinia Mitra and Beethika Moni Dutta | <i>Journal of Women's Studies</i> , Vol. XI | 2020        |

## FISHERIES RESEARCH AND TRAINING CENTRE

### About the Centre:

Fisheries Research and Training Centre of Department of Zoology, University of North Bengal has mandate of research, training and extension in different aspects of freshwater aquaculture in North Bengal region including Darjeeling hills. The Centre has eleven numbers of ponds of assorted types namely nursery, rearing and stocking occupying an area of 1.5 ha. The ponds are located in the University campus alongside the flowing Magurmari river. The Centre has also facilities like onsite Field Laboratory having the facility for research and training, extended aquaculture unit with cemented and Fibreglass Reinforced Plastic tanks of varying shape and size and a circular eco-hatchery.

The concept of the Centre was initiated in 1994 under funding support from 'Jawahar Rojgar Yojna' and routed through the Department of Fisheries, Government of West Bengal and Siliguri Mahakuma Parisad. After the successful completion of the construction of the ponds of different categories and a Field Laboratory, the Centre was inaugurated in 1998.

Presently one pond is being maintained for rearing the Indian Major Carps viz. *Catla catla* (Catla) to carry out current research work on the somatic growth and reproduction in carps. In addition to the *Catla catla*, the rearing of *Labeo rohita* (Rohu), *Cirrhinus mrigala* (Mrigala), *Danio rerio* (Zebrafish), *Puntius sp.* (Punti) are also being maintained simultaneously for time to time research aptitude. The other two stocking ponds primarily shelter the air-breathing fishes viz., *Heteropneustes fossilis* (Singhi), *Clarias batrachus* (Magur), etc. Besides, all the ponds are also house various kinds of phytoplankton and zooplankton, which serve the natural food for fish, and serve as a vital component of the pond ecosystem in maintaining primary productivity.

### Research Focus:

- Survey and study of Ichthyofaunal diversity of Rivers of Eastern Himalaya hills and Terai region of West Bengal
- Production of fish food organisms and study of nutrient requirements of indigenous hill stream fish for their propagation
- Captive breeding and rearing of some indigenous and exotic ornamental fishes
- Formulation of probiotics for Indian Major & Minor Carps

### Activities of the Centre:

- To augment fish seed and fish production using modern technology through its retained derelict water areas

- To create a durable asset, capable of generating future employment opportunity for the small and marginal farmers in aquaculture. In doing so, the fish farmers of the area get the counseling benefit of soil and water quality of tanks and ponds
- To produce table sized fish; propagate endangered species of fish (edible and ornamental) of Darjeeling hills and Terai region
- To undertake biotechnological investigations on the low cost fish food production using simple techniques benefitting the ecological conditions of North Bengal and the small to marginal fish farmers

## HIGH ENERGY & COSMIC RAY RESEARCH CENTRE

### About the Centre:

The Centre was established jointly by the University Grants Commission and the Government of West Bengal in 1991 under the program “Improvement of Research in the Universities”. The Centre is engaged in theoretical as well as experimental advanced research in different branches of High Energy Astrophysics and Astroparticles including Cosmic Rays. The Centre has expertise on cosmic rays and Monte Carlo Simulation study of cosmic ray air shower which is globally recognized by the experts in the field. Research Scholars from different universities and even premier Research Institute of the Country visited the Centre to get training on the mentioned subjects.

### Research Focus:

- Astroparticle Physics
- High energy astronomy
- General Relativity
- Optical Astronomy
- Stellar Data Analysis
- Computational Physics

### Details of the Officers:

| Name                   | Qualification | Designation   | Email               |
|------------------------|---------------|---|---------------------|
| Dr. Arunava Bhadra     | Ph. D.        | Principal Research Physicist  | abhadra@nbu.ac.in   |
| Shri Arindam Mukherjee | M. Sc.        | Principal Research Officer  | am.hecrcc@nbu.ac.in |
| Dr. Tamal Sarkar       | Ph. D.        | Scientific Research Officer Gr II & Director (w.e.f. 9.1.2020).<br>Development Officer (Additional Charge from May, 2019) | tsarkar@nbu.ac.in   |

### Details of Non-Teaching Staff:

| Name        | Designation     |
|-------------|-----------------|
| Sadhan Paul | Helper Gr. - II |

### Details of Research Scholars:

| Name                  | Supervisor            | Co-Supervisor | Gender |
|-----------------------|-----------------------|---------------|--------|
| Arundhati Chakraborty | Dr. S. K. Sarkar      | A. Bhadra     | Female |
| Samrat Ghosh          | Prof. A. Mukhopadhyay | A. Bhadra     | Male   |

**Details of Online Special Lectures Organized:**

| <b>Title of the Lecture</b>  | <b>Delivered by</b>  | <b>Date</b> |
|--|--|-------------|
| Low dimensional material for Space Technology Application  | <b>Dr. Amretashis Sengupta,</b><br><i>SERB Research Scientist,</i><br>University of North Bengal | 22.12.2020  |
| Intriguing Physics of plasma confined by a dipole magnet: from colossal planetary magnetosphere to a table top plasma device | Prof. Sudeep Bhattacharjee,<br>Department of Physics, Indian<br>Institute of Technology, Kanpur  | 28.11.2020  |
| On a quantum topic whose description is yet to be collapsed or determined  | Arindam Mukherjee, University<br>of North Bengal   | 09.10.2020  |
| Spectral and Temporal properties of Black Hole sources in the X-Ray regime   | Dr Broja Gopal Dutta, Associate<br>Professor, Rishi Bankim Chandra<br>College, Kolkata           | 26.09.2020  |
| A general discussion entitled Issues on dark matter, Moderator: Dr. Arunava Bhadra   | Samrat Ghosh, PhD Student,<br>University of North Bengal   | 13.09.2020  |
| Optical Polarimetry  | Dr Jyotirmay Paul, IUCAA, Pune   | 30.08.2020  |
| Research during Covid-19 pandemic period   | Dr Arunava Bhadra, University<br>of North Bengal   | 20.08.2020  |
| Do we really live in an accelerating universe?   | Dr Souvik Ghose, University of<br>North Bengal   | 16.08.2020  |
| A search for pulsars with uGMRT  | Dr Biplab Bijoy, PDF, NCRA,<br>Pune  | 02.08.2020  |
| Signature of Synchrotron radiation from High Energy Astrophysical Sources  | Dr Tamal Sarkar, University of<br>North Bengal   | 19.07.2020  |

**Details of Seminar/Conferences /Webinar/Training Attended by Faculty:**

| <b>Details of the Seminars/Conferences/Training</b>   | <b>Date</b>       |
|---|-------------------|
| <b>Dr. Tamal Sarkar</b>   |                   |
| Hands-on-Activity Based International Virtual workshop on “Art of Writing Research Articles: Tools & Techniques” organized jointly by IISRR, Kolkata & Maulana Azad National Urdu University, Hyderabad | 17-<br>24.03.2021 |
| Science Leadership Workshop organized by Central University of Punjab, Bathinda   | 22-<br>28.06.2020 |

| <b>Details of the Seminars/Conferences/Training</b>  | <b>Date</b>                 |
|--|-----------------------------|
| National Webinar on Viswa- Bharati Library Network   | 16-18,22-27 & 29 June, 2020 |
| Online Workshop on Evidence Based Teaching and Learning Strategies in Higher Education, organized by CREATES, IISER Bhopal under PMMMMNMTT of MHRD   | 13-15.07.2020               |
| Introductory Online Seminar on Astrophysics and Cosmology, organized by ICARD & Department of Physics, North Bengal University   | 16.09.2020                  |
| National Wbinar on Recent Advances in Astrophysics and Cosmology, organized by ICARD & Department of Physics, North Bengal University  | 24-25.03.2021               |
| Awareness Quiz on COVID-19, organised by Department of Chemistry and NSS unit-11, Tufanganj Mahavidyalaya, Cooch Behar   | 27.04.2020                  |
| Spitting Kills, organised by Narayana Super Specialty Hospital   | April-May, 2020             |
| COVID-19: Challenge and Opportunity, organised by Kashipur Michael Madhusudan Mahavidyalaya, Purulia   | 05.05.2020                  |
| COVID-19 Awareness and Education programme, organised by NSS, Jadavpur University  | 16.05.2020                  |
| The New Normal in education, organised by IQAC, Saint Albert's College, Kochi  | 23.05.2020                  |
| The Role of HR Analytics Leader: driving Productivity & Experience, organised by Department of Management , University of North Bengal   | 30.5.2020                   |
| Looking Ahead: Leading and Inspiring through Uncertain Times, organised by IQAC, Saint Albert's College, Kochi   | 18.06.2020                  |
| Publishing Ethics: The role of Publishers, Journals, Researchers and Institutions, organised by Springer Nature in collaboration with INFLIBNET Centre, India                                    | 25.06.2020                  |
| Online lecture Series:<br>Waves Optics-II by Prof Rajaram Nityananda- Former Director of NCRA, Pune, organised by Indian Association of Physics Teachers and Delhi State Science Teacher's Forum | 11.07.2020                  |

| <b>Details of the Seminars/Conferences/Training</b>   | <b>Date</b> |
|---|-------------|
| Online lecture Series:<br>Electrostatics-I, Prof H.S. Mani- Former Director of HCRI, Prayagraj (Allahabad), organised by Indian Association of Physics Teachers and Delhi State Science Teacher's Forum             | 18.07.2020  |
| Online lecture Series: Electrostatics-II, Prof H.S. Mani- Former Director of HCRI, Prayagraj (Allahabad), organised by Indian Association of Physics Teachers and Delhi State Science Teacher's Forum               | 25.07.2020  |
| Online lecture Series:<br>Magnetism and Matter, Prof Dipan Ghosh- Former Professor in Physics, IIT Bombay, organised by Indian Association of Physics Teachers and Delhi State Science Teacher's Forum              | 01.08.2020  |
| Online lecture Series:<br>Surprises in Elementary Physics, Prof Vijay A. Singh Former Professor in Physics, IIT Kanpur, organised by Indian Association of Physics Teachers and Delhi State Science Teacher's Forum | 06.08.2020  |
| Cyber Ethics and Youth Relationships, organised by Saint Albert's College, Kochi  | 13.07.2020  |
| Exploratory Analysis and Visualization of Text Data for Research using Open Source Tools, organised by Central University, Manipur  | 21.09.2020  |
| National Education Policy 2020-Impact on Higher Education, organised by Centre for Educational and Social Studies (CESS), Bengaluru   | 22.09.2020  |
| Discovery Service: A Single Gateway to Library, organised by Central University, Manipur  | 16.10.2020  |
| Cyber Shikshak- a cyber-security Awareness Training Programme, organised by Cyber Security Centre of Excellence, West Bengal  | 17.03.2021  |

**Professional / Faculty Development Programme Completed:**

| <b>Professional Body / Agency</b>                   | <b>Name of the FDP/Course</b>                     | <b>Duration</b> |
|---|---|-----------------|
| <b>Dr. Tamal Sarkar</b>                             |   |                 |
| Indian Institute of Technology Roorkee, under NPTEL | Introduction to Atmospheric and Space Science     | Jan-Apr 2020    |
| Department of Physics, Bodoland university          | Short Term Online Course on Computational Physics | 12-18 May, 2020 |



| Professional Body / Agency                               | Name of the FDP/Course   | Duration          |
|--|--|-------------------|
| IQAC & Department of Chemistry, Basanti Devi College     | E-Short Term Course, Earth: Our Home                             | 05-11 June, 2020  |
| John Hopkins University under COURSERA                   | COVID-19 Contact tracing   | June 2020         |
| Teaching Learning Centre of IUCAA under PMMMNMTT of MHRD | Refresher Course on Astronomy and Astrophysics 2020 (Via online) | May to June, 2020 |

### Publications:

| Name of the Author(s)  | Details of Book/Journal/Volume  | Year |
|--|---|------|
| Rajat K. Dey, Animesh Basak, Sabyasachi Ray, Tamal Sarkar              | Newly Born Extragalactic Millisecond Pulsars as Efficient Emitters of PeV Neutrinos, <i>Brazilian Journal of Physics</i> , Vol. 51, pp. 1406–1415   | 2021 |
| Tamal Sarkar   | <ul style="list-style-type: none"> <li>E-Waste threat and solution to the impending e-waste threat in India with special reference to West Bengal, <i>ISRR- International Journal of Research</i>, 7(II):131, ISSN 2394-885X</li> </ul> | 2021 |
| Tamal Sarkar   | Spectral and Timing Analysis of Radio Quiet X-Ray source 1E 161348-5055.1 using XMM Newton Mission, <i>Journal of Physics Research and Education</i> , Vol.1, No.1, pp 75 - 96  | 2021 |
| Rajat K Dey and Tamal Sarkar   | TeV-PeV energy neutrinos and gamma rays from extragalactic milli-second pulsars, <i>Journal of Physics Research and Education</i> , Vol. 1, No. 1, pp. 107 -122   | 2021 |
| Prabir Banik, Arunava Bhadra, Abhijit Bhattacharyya                    | Interpreting correlated observations of cosmic rays and gamma-rays from Centaurus A with a proton blazar inspired model, <i>Monthly Notices of the Royal Astronomical Society</i> , Vol. 500, Issue 1, pp. 1087-1094                    | 2021 |
| Ghosh, Samrat; Bhadra, Arunava; Mukhopadhyay, Amitabha                 | Gravitational lensing study of cold dark matter-led galactic halo, <i>International Journal of Modern Physics</i> , Vol. 3  | 2021 |
| Sarkar, Kabita; Ghosh, Samrat; Bhadra, Arunava; Mukhopadhyay, Amitabha | Test of global monopole based alternative dark matter model from gravitational lensing studies, <i>Classical and Quantum Gravity</i> , 38 135013  | 2021 |
| Bhadra, Arunava; Mukherjee, Arindam; Sarkar, Kabita                    | <ul style="list-style-type: none"> <li>Impact of population density on Covid-19 infected and mortality rate in India, <i>Modeling Earth</i></li> </ul>  | 2020 |

| Name of the Author(s)  | Details of Book/Journal/Volume   | Year |
|--|--|------|
|  | <i>Systems and Environment</i> , DOI: 10.1007/s40808-020-00984-7   |      |
| Prabir Banik, Arunava Bhadra, Madhurima Pandey, and Debasish Majumdar, | Implications of a proton blazar inspired model on correlated observations of neutrinos with gamma-ray flaring blazars, <i>Phys. Rev. D</i> 101, 063024 | 2020 |
| A Bhadra, P Banik, I. Ghosh, P. Ghosh and K Sarkar                     | A proposed strategy to reduce SARS-COV-2 infection possibility, <i>OSF Preprints</i> , DOI: 10.31219/osf.io/tfuqr                                      | 2020 |

### Research Projects Details:

| Title of the Project                                      | PI                 | Sponsored by | Year of Sanction | Duration | Budget (Rs.) |
|---|--------------------|--------------|------------------|----------|--------------|
| Influence of Dark sector on local dynamics and kinematics | Dr. Arunava Bhadra | SERB, GoI    | 2020             | 3 years  | 19,42,231    |

### News and Events:

- Dr. Tamal Sarkar assumed the chair of Director of the Centre for the period of two years with effect from 9.1.2020
- Apart from the regular activities, Dr Tamal Sarkar of the Centre shouldered additional charge of the Development Officer with effect from 21.05.2019.
- Dr. Arunava Bhadra nominated as the Chairman of the Committee for conducting Physics Classes at the Undergraduate Level
- Dr. T. Sarkar acted as Guest faculty to teach Basic Physics course for M.Sc. Bio-Technology, Department of Bio-Technology, University of North Bengal
- Dr. T. Sarkar and Mr A. Mukherjee acted as Faculty for BSc General Physics Course offered by NBU to Geology (Hons) UG student
- Dr Tamal Sarkar was selected as Visiting Associate for three years from August 1, 2019, under the Associateship Programme of IUCAA.
- Mr Arindam Mukherjee and Tamal Sarkar acted as a content developer for the astronomy site ‘CRAGA’
- On 21<sup>st</sup> December 2020, the Centre conducted one observation event to view the Great Conjunction of Jupiter and Saturn at the rooftop of the Department of Biotechnology, NBU.

Several PG students including faculties took the opportunity to observe the live event. The program was coordinated by Mr. A. Mukherjee of the Centre as Event Director.

- Dr. Amretashis Sengupta was invited to the Technical Program Committee of IEEE Nanotechnology Materials and Devices Conference (NMDC) – 2020, Nanjing, PRC.
- Dr. Amretashis Sengupta was invited to the International Advisory Committee for the 4<sup>th</sup> IEEE International Conference 2021 on Devices for Integrated Circuit (DevIC-2021), held at Kalyani Government Engineering College in March 2021.

## IUCAA CENTRE FOR ASTRONOMY RESEARCH & DEVELOPMENT

### About the Centre:

The Inter-University Centre for Astronomy and Astrophysics (IUCAA) is an autonomous institution set up by the UGC to promote the nucleation and growth of active groups in astronomy and astrophysics at Indian universities. IUCAA aims to be a centre of excellence within the university sector for teaching, research and development in astronomy and astrophysics. For the last three decades, IUCAA has been promoting Astronomy and Astrophysics in Universities and Colleges across the country. Since its inception in 1988, it has become the nodal agency for research, teaching and science popularization activities in the country in the field of Astronomy & Astrophysics and allied fields.

IUCAA has set up six Reference Centers (IRC) in India with an aim to provide some basic facilities to university or college teachers and students in different regions for working in projects related to Astronomy & Astrophysics. IRCs provide up to date modern computing facilities, books and necessary software which are utilized by the students and researchers of the nearby region.

IRC at the University of North Bengal is one of such Centre started functioning from July 31, 1999. Thereafter IRC Data Centre was inaugurated on February 21, 2011. Recently, the name of IRC is changed to IUCAA Centre for Astronomy Research and Development (ICARD) which is housed at the Department of Physics, NBU with effect from 31<sup>st</sup> March, 2019. To meet the goal, the Centre strives to become an active center for Astronomy research & development through Astronomy teaching, promoting research and getting involved in public outreach program.

Presently, ICARD NBU is one of the seventeen ICARDs established by the IUCAA and thrives to become much enhanced Astronomy activities in West Bengal and North Eastern India.

### Functions of the Centre:

- To contribute to develop innovative teaching methods designed for Astronomy. This includes development of up to date course structures and new kinds of experiment/data analysis sessions which can be a part of a starting or existing Astronomy course in a University.
- To hold frequent workshops/schools/meetings at various levels at the University/College and at nearby regions.
- To have an active public outreach program for Astronomy.
- To be visiting Centre where nearby Astronomers can visit.

### Research Focus:

- Relativistic Cosmology
- Relativistic Astrophysics
- Compact Objects
- X-Ray Sources and Pulsars
- Non-linear Dynamics
- Black holes and Wormholes

**Centre Coordinator:**

| <b>Name</b>               | <b>Qualification</b> | <b>Email</b>     |
|---------------------------|----------------------|------------------|
| Prof. Bikash Chandra Paul | Ph. D.               | bcpaul@nbu.ac.in |

**Activities of the Centre in 2020-21:****Visitors Program**

The ICARD, NBU has a vibrant visiting program. A number of college, university and institutes faculties visit ICARD, NBU for collaborative research work. A total of 80 virtual visitor programs were conducted by the Centre in 2021.

**Details of Seminars/Conferences/Webinar Organized:**

| <b>Name of the Seminar/Conference/ Webinar</b> | <b>Date</b>     |
|--|-----------------|
| Recent Advances in Astrophysics and Cosmology  | 24 – 25.03.2021 |

**CHAPTER – V**  
**DISTANCE EDUCATION**



## DIRECTORATE OF DISTANCE EDUCATION

### About the Directorate:

The University of North Bengal is recognized by the UGC under Section 2 (f) and 12 (B) of its Act and is accredited by the NAAC. The Directorate of Distance Education (DDE) of NBU is recognized and accredited by the Distance Education Bureau, UGC, New Delhi.

The University of North Bengal, through Directorate of Distance Education, provides quality undergraduate and post graduate in various subjects. These courses can be taken by students of any location and age in the comfort of their home.

### Courses Offered:

- B.A.
- B.Com.
- M. A. in Bengali
- M. A. in English
- M. A. in History
- M. A. in Nepali
- M. A. in Philosophy
- M. A. in Political Science
- M. A./M. Sc. in Mathematics

### Student Strength (2020 – 21):

| Course | Male | Female | Total | SC  | ST  | OBC-A | OBC-B | PH | Gen |
|--------|------|--------|-------|-----|-----|-------|-------|----|-----|
| P.G.   | 446  | 1259   | 1705  | 516 | 200 | 120   | 290   | 07 | 711 |
| U.G.   | 25   | 13     | 38    | 14  | 02  | 02    | 04    | 00 | 16  |

### Faculty Details:

| Name                    | Qualification | Designation     | Email                 |
|-------------------------|---------------|-----------------|-----------------------|
| <b>Subject: English</b> |               |                 |                       |
| Dr. Priyanka Chatterjee | M.A., Ph.D    | Asst. Professor | site_ddenbu@nbu.ac.in |
| <b>Subject: Bengali</b> |               |                 |                       |
| Dr. Nandita Mondal      | M.A., Ph.D    | Asst. Professor | dde.nandita@nbu.ac.in |
| Ms. Nabanita Pramanik   | M.A., NET     | Asst. Professor | nabanita@nbu.ac.in    |



| Name                              | Qualification | Designation     | Email                        |
|-----------------------------------|---------------|-----------------|------------------------------|
| <b>Subject: Nepali</b>            |               |                 |                              |
| Mr. Bikram Biswakarma             | M.A. NET      | Asst. Professor | bikramdalsing@nbu.ac.in      |
| Mr. Birendra Chhetri              | M.A. NET      | Asst. Professor | birendra@nbu.ac.in           |
| <b>Subject: History</b>           |               |                 |                              |
| Mr. Manoranjan Sarkar             | M.A. NET      | Asst. Professor | monoranjanodb04@nbu.ac.in    |
| Mr. Abhishek Poddar               | M.A. NET      | Asst. Professor | abhisek@nbu.ac.in            |
| <b>Subject: Philosophy</b>        |               |                 |                              |
| Dr. Juhi Routh                    | M.A. Ph.D     | Asst. Professor | juhirouth@nbu.ac.in          |
| Ms. Reshmee Sarkar                | M.A. NET      | Asst. Professor | reshmeenil2015@nbu.ac.in     |
| <b>Subject: Political Science</b> |               |                 |                              |
| Dr. Anindya Guha                  | M.A. Ph.D     | Asst. Professor | anindyaguha2011@gmail.com    |
| Dr. Bimalendu Bhaumik             | M.A. Ph.D     | Asst. Professor | bimalendubhaumik25@gmail.com |
| <b>Subject: Mathematics</b>       |               |                 |                              |
| Mr. Jayanta Roy                   | M.Sc. NET     | Asst. Professor | jayanta2017math@nbu.ac.in    |
| <b>Subject: Commerce</b>          |               |                 |                              |
| Mr. Parijat Nath                  | M.A. NET      | Asst. Professor | dde_parijat@nbu.ac.in        |
| Ms. Soumili Bishnu                | M.A. NET      | Asst. Professor | dde_soumili@nbu.ac.in        |

#### Details of Non-Teaching Staff:

| Name                    | Qualification | Designation                               | Email                      |
|-------------------------|---------------|---|----------------------------|
| Mr. Raju Roy            | MBA, NET      | Director-in-Charge                        | ddedydirector001@gmail.com |
| Dr. Debabrata Deb       | M.Sc., Ph.D   | Assistant Director                        | asstdirector@nbu.ac.in     |
| Ms. Chirashree Majumdar | M..A          | DLF                                       | chirasree@rediffmail.com   |
| Mr. Pratap Kanungoe     | B.Com.        | Accountant                                | kanun.goe@rediffmail.com   |
| Mr. Ujjal Sarkar        | M.A.          | Office Assistant<br>Cum Computer Operator | ujjal2112sarkar@gmail.com  |
| Mr. Ranjit Singha       | M.A.          | Office Assistant                          | ranjisingha@9gmail.com     |
| Ms. Joyita Neogi        | M.A.          | Office Assistant                          | jhumarayan@gamil.com       |
| Md.Sahidul              | M.P.          | Office Attendant                          | md_sahidul82@yahoo.com     |

| Name                     | Qualification | Designation                    | Email  |
|--------------------------|---------------|--------------------------------|--|
| Mr. Biman Ranjan Roy     | VIII          | Office Attendant               | <a href="mailto:bimanranjanr@gmail.com">bimanranjanr@gmail.com</a>     |
| Mr. Pravat Kumar Yadav   | M.A.          | Office Assistant (Daily Wage)  | <a href="mailto:pravmy.net@gmail.com">pravmy.net@gmail.com</a>         |
| Ms. Ruma Roy             | M.A.          | Office Assistant (Daily Wage)  | <a href="mailto:rumaroy873@gmail.com">rumaroy873@gmail.com</a>         |
| Mr. Dinesh Saha          | M.P.          | Library Attendant (Daily Wage) | <a href="mailto:dineshsaha0802@gmail.com">dineshsaha0802@gmail.com</a> |
| Mr. Ankur Das            | M.P.          | Library Attendant (Daily Wage) | <a href="mailto:das789125@gmail.com">das789125@gmail.com</a>           |
| Mr. Laban Kishan Mallick | VIII          | Sweeper (Daily Wage)           |  |

### Publications:

| Author(s)                    | Publication Details   | Year |
|------------------------------|---|------|
| Debomalya Ghose and Raju Roy | ISO 9001 based Quality Management System's Understanding in selected Non-Certified West Bengal, India Organizations, <i>Journal of Critical Reviews</i> , DOI: 10.31838/jcr.07.06.131                               | 2020 |
|                              | The Quality Management System implemented in select certified organisation in West Bengal, India: currarent status and the tendency, <i>The International Journal of Analytical and Experimental Model Analysis</i> | 2020 |
| Juhi Routh                   | Importance of regeneration India and participation of Women to build ideal society according to M.K Gandhi, <i>International Journal of Advance Research and Innovative Ideas in Education</i> , Vol. VII, Issue 1  | 2021 |
| Jayanta Roy and D C Pramanik | Uniqueness of meromorphic functions sharing a set of roots of unity, <i>Journal of Indian Mathematical Society</i> , Vol. 87, No. 3-4, pp. 206-218  | 2020 |
|                              | Uniqueness of $p(f)$ and $P[f]$ concerning weakly weighted-sharing, <i>General Mathematics</i> , Vol. 28(1), pp. 11-24  | 2020 |
|                              | Uniqueness of homogeneous differential polynomials of meromorphic functions concerning weakly weighted sharing, <i>Journal of Classical Analysis</i> , Vol. 16, No. 1, pp. 23-35                                    | 2020 |
|                              | Uniqueness of differential polynomials of a meromorphic function concerning weighted sharing <i>Math. Student</i> , Vol. 89, No. 3-4, pp. 1-17  | 2020 |

| <b>Author(s)</b> | <b>Publication Details</b>   | <b>Year</b> |
|------------------|--|-------------|
|                  | The Growth of Solutions of Some Non-linear Complex Differential Equations, The Korean Journal of Mathematics, Vol. 28(2), pp. 295-309                  | 2020        |
|                  | Uniqueness of meromorphic functions sharing values with their n-th derivatives Electron. J. Math. Anal. Appl., Vol. 9 (1), pp. 191-200                 | 2021        |
|                  | Weighted sharing and uniqueness of homogeneous differential polynomials of meromorphic functions, Southeast Asian Bull. Math., Vol. 45(2), pp.227--240 | 2021        |
| Bimalendu Nath   | Corruption and Connection: Dual Administrative Epidemic Ailing India's Sevottam Dream, NAM Today, pp. 40   | 2020        |
| Bhoumik          | Sri Aurobindo Ghosh: A Survey, Book: A Greater Dawn  | 2021        |

**CHAPTER – VI**  
**UGC SPONSORED CENTRES**



## INTERNAL QUALITY ASSURANCE CELL (IQAC)

### About the Cell:

The Office of the Internal Quality Assurance Cell (IQAC) of University of North Bengal was established on 10<sup>th</sup> July 2003. At present, the Cell has fourteen members with the Vice-Chancellor as the Chairperson and the Director as the Coordinator of IQAC.

One of the important functions of IQAC is to develop realistic and attainable quality bench marks for each of the academic and administrative activities. One of the most critical functioning of IQAC is to keep the institution abreast of and abuzz with quality sustenance activities on a wide gamut of pertinent issues.

### Composition of IQAC:

|    |   |             |
|----|---|-------------|
| 1  | Dr. Subires Bhattacharyya, Hon'ble Vice Chancellor, NBU                                   | Chairperson |
| 2  | The Dean, Faculty Council for PG Studies in ACL, NBU                                      | Member      |
| 3  | The Dean, Faculty Council for PG Studies in Science, NBU                                  | Member      |
| 4  | Prof. Suparna De Sarkar, Dept. of Mathematics, NBU  | Member      |
| 5  | Prof. Pranab Ghosh, Dept. of Chemistry, NBU   | Member      |
| 6  | Prof. Subir Sarkar, Dept. of Geography & Applied Geography, NBU                           | Member      |
| 7  | Prof. Ranjita Chakraborty, Dept. of Political Science, NBU                                | Member      |
| 8  | Prof. Mohan Prasad Dahal, Dept. of Nepali, NBU  | Member      |
| 9  | Prof. Anirban Misra, Dept. of Chemistry, NBU  | Member      |
| 10 | Registrar, NBU  | Member      |
| 11 | Swami Atmapriyananda, Vice Chancellor, Ramakrishna Mission Vivekananda University, Howrah | Member      |
| 12 | Dr. Indrila Guha, Principal, Basanti Devi College, Kolkata                                | Member      |
| 13 | Sri Harshavardhan Neotia, Chairman, Ambuja Neotia Group                                   | Member      |
| 14 | Sri Goutam Deb, Minister-in-Charge, Dept. of Tourism, Govt. of WB                         | Member      |
| 15 | Prof. Soumitra De, Dept. of Political Science, NBU  | Director    |

IQAC is supported by the following Administrative Staff -

- Shri Nilkantha Biswas
- Shri Jyotirmoy Biswas

### **Major Activities & Quality Initiatives (2020-21)**

- IQAC in a move to clear all backlog candidates for PhD registration recommended calculation of the period of active research work from the date of admission in PhD Course Work / MPhil Programme. It was also recommended that for old cases the total period of 6 years will be calculated from the date of completion of the Course on RPE. The recommendation was accepted
- IQAC prepared and uploaded the thesis guide
- Due to Covid-19 IQAC took online feedback on quality matters from students and faculties.
- Students Mentorship was redesigned
- Outcome based academic programmes was completed
- Self-Study Report was prepared for validation

## UGC - HUMAN RESOURCE DEVELOPMENT CENTRE

### About the Centre:

If education is the key to bring social and economic transformation, then transformative and innovative approaches in the field of higher education are considered as the precursor to this process. Keeping this objective in mind, the UGC took the initiative to set up Academic Staff Colleges in some selected universities in the country. In 2015, the ambit of Academic Staff College had further been extended and became the Human Resource Development Centre. The UGC-Human Resource Development Centre, University of North Bengal, began its journey in November 2009, then known as UGC-Academic Staff College.

The UGC-HRDC, NBU is located in Siliguri, at the foothills of the Himalayas, the gateway to the North East. It attracts participants of diverse cultural backgrounds from all over the country and strives to create a conducive environment for their development. Adding to that, the Centre has an independent guest house where the participants, while taking part in various courses, can stay comfortably. The pleasant weather and absolute greenery of the campus of the University of North Bengal make the entire experience very enjoyable. The UGC-HRDC, NBU since its inception has conducted many Refresher Courses, Orientation Programmes and Workshops with paramount success.

The facilities at UGC-HRDC-NBU include three air-conditioned smart lecture rooms to supplement the hybrid-mode of the teaching-learning process. A state-of-the-art seminar hall cum computer laboratory facilitates to carry on hands-on training programmes. The participants can access around 2500 books at HRDC, and they get the opportunity to use the books, e-books, journals and virtual resources available at the Central Library of the University. A well-equipped library and Computer Lab. Are serving the purpose of the College / University teachers, Principals, non-teaching staff, Research Scholars etc. A smart classroom has been set-up under financial support from RUSA.

### Faculty Details:

| Name                    | Designation                            | Email              |
|-------------------------|--|--------------------|
| Dr. Anjan Chakrabarti   | Professor-Director                     | dirhrdc@nbu.ac.in  |
| Dr. Sanjib Bhattacharya | Associate Professor-Deputy Director    | ddirhrdc@nbu.ac.in |
| Dr. Mossaraf Hossain    | Assistant Professor-Assistant Director | adirhrdc@nbu.ac.in |

### Details of Non-Teaching Staff:

| Name             | Qualification |
|------------------|---------------|
| Sanjoy Roy Hakim | Jr. Peon      |



| <b>Name</b>          | <b>Qualification</b>      |
|----------------------|---------------------------|
| Pankaj Mandal        | Office Assistant (Casual) |
| Bikram Roy           | Peon (Casual)             |
| Alokananda Chaudhury | Hostel Attendant (Casual) |
| Sanjit Kumar Mallik  | Sweeper (Casual)          |

### Programs Conducted:

| <b>Course Type</b>                        | <b>Subject/Details</b>    | <b>Duration from</b>    | <b>No. of Participants</b> |
|---|---------------------------|-------------------------|----------------------------|
| Refresher Course                          | Law                       | 24.11.2020 - 07.12.2020 | 41                         |
| Refresher Course                          | Nepali                    | 05.01.2021 - 18.01.2021 | 33                         |
| Refresher Course                          | Mathematics               | 08.01.2021 - 21.01.2021 | 48                         |
| Refresher Course                          | Women's Studies           | 12.01.2021 - 25.01.2021 | 49                         |
| Refresher Course                          | Chemistry                 | 11.02.2021 - 24.02.2021 | 32                         |
| Refresher Course                          | English                   | 12.02.2021 - 25.02.2021 | 46                         |
| Refresher Course                          | Library & Information Sc. | 02.03.2021 - 15.03.2021 | 42                         |
| Refresher Course                          | Life Sciences             | 03.03.2021 - 16.03.2021 | 50                         |
| Refresher Course                          | Political Science         | 04.03.2021 - 17.03.2021 | 45                         |
| Short-term Course                         | Research Methodology      | 26.11.2020 - 02.12.2020 | 36                         |
| Short-term Course                         | Disaster Management       | 09.03.2021 - 15.03.2021 | 29                         |
| Short-term Course                         | Workshop on MOOCS         | 11.03.2021 - 17.03.2021 | 28                         |
| 1 <sup>st</sup> Faculty Induction Program | -                         | 23.11.2020 - 22.12.2020 | 49                         |
| 2 <sup>nd</sup> Faculty Induction Program | -                         | 25.11.2020 - 24.12.2020 | 50                         |
| 3 <sup>rd</sup> Faculty Induction Program | -                         | 04.01.2021 - 02.02.2021 | 49                         |
| 4 <sup>th</sup> Faculty Induction Program | -                         | 04.02.2021 - 05.03.2021 | 47                         |

### Details of the Seminar/Conference Attended and Lecture Delivered:

| <b>Name</b>           | <b>Details of the Seminar/Conference/Lecture</b>   | <b>Date</b> |
|-----------------------|--|-------------|
| Dr. Anjan Chakrabarti | Invited lectures as invited resource person in Refresher Course in Economics, organized by the UGC-Human Resource Development Centre, Kumayun University, Nainital | 05.03.2021  |

| Name | Details of the Seminar/Conference/Lecture  | Date       |
|------|--|------------|
|      | Invited lectures as invited resource person in Faculty Induction Programme, organised by the UGC-Human Resource Development Centre, Kumayun University, Nainital   | 03.12.2020 |
|      | Lecture in ICSSR sponsored Online Workshop on Research Methodology and Quantitative Techniques in Social Sciences and Humanities, organized by Centre for Studies in Human Development, Assam University | 11.01.2021 |

### Publications:

| Author(s)   | Details of the Publication   | Year |
|---|--|------|
| Chakrabarti, A;<br>Chaudhuri, R &<br>Chatterjee A | Polyandry Amidst the Dominance of Monogamy: An Exploratory Model with Reference to Sikkim, India, <i>International Journal of Sociology of the Family</i> , Vol. 46-47, No. 1-2, pp. 60-79   | 2021 |
| Chakrabarti, A                                    | Mapping the Development Paradigm of Northeast India from ancient past to present in the realm of Political History and Economy, Book: <i>Theory, Policy, Practice, Development and Discontent in India</i> , Eds. Suman Nath and Debraj Bhattacharya, pp. 80-98, Routledge, UK/India (Taylor & Francis Group) [eISBN: 9781003159940]   | 2021 |
| Chakrabarti, A                                    | COVID-19 Pandemic: Need to Revisit Economic Reforms in India, Book: <i>COVID-19 Pandemic Global Power Struggle &amp; Indian Foreign Policy</i> , Eds. Gouri Shankar Nag, Gargi Nag and Manas Mukul Bandopadhyay, Palm View Books, Gurgaon, pp. 171-186 [ISBN: 978-81-943513-3-7]   | 2020 |
| Chakrabarti, A &<br>Chaudhuri R                   | Livelihood, Sustainable Development, Conflict between Formal Institution and Communal Governance with Special Reference to the Pastoral Community of Lachung Valley: An Evaluative Note on the East Himalayan State of Sikkim, India, Book: <i>Multi-Disciplinary Approach towards Sustainable Development</i> , Eds. Pankaj Srivastava, Jayashree Dubey and Dharmendra Hota, Indian Institute of Forest Management, Bhopal and Bookwell, New Delhi, pp. 1-7 [ISBN: 978-93-86578-49-5] | 2020 |
| Bhattacharya, S                                   | AC conductivity behaviour and charge carrier concentrations of some vanadate glassy system, <i>Physics Letters A</i> , Vol. 384, Issue 16, IF 2.654  | 2020 |

| <b>Author(s)</b>  | <b>Details of the Publication</b>  | <b>Year</b> |
|---|--|-------------|
| Acharya A,<br>Bhattacharya K,<br>Ghosh C K and<br>Bhattacharya S        | Microstructures and charge carrier transport of some Li <sub>2</sub> O doped glassy ceramics, <i>Materials Letters</i> , Vol. 265, 127438, IF 3.423                          | 2020        |
| Ojha S, Roy M,<br>Chamuah A,<br>Bhattacharya K<br>and<br>Bhattacharya S | Transport phenomena of Cu–S–Te chalcogenide nanocomposites: frequency response and AC conductivity, <i>Physical Chemistry Chemical Physics</i> , Vol. 22, Issue 42, IF 3.676 | 2020        |

#### Research Projects Details:

| <b>Title of the Project</b>  | <b>PI</b>               | <b>Project Duration</b> | <b>Sponsored by</b> | <b>Year of Sanction</b> | <b>Budget (Rs.)</b> |
|--|-------------------------|-------------------------|---------------------|-------------------------|---------------------|
| Relaxation Dynamics of Lithium Ion Conducting Glass-Ceramics                         | Dr. Sanjib Bhattacharya | 3 years                 | CSIR                | 2017                    | 11, 23, 419         |
| Investigations of Electrical and Dielectric Properties of Chalcogenide Glassy Alloys | Dr. Sanjib Bhattacharya | 3 years                 | SERB                | 2019                    | 33,55,520           |

**CHAPTER – VII**  
**CENTRAL FACILITIES**



## AKSHAYA KUMAR MAITREYA HERITAGE MUSEUM

### About the Museum:

The Akshaya Kumar Maitreya Heritage (A.K.M.H.) Museum which had a humble beginning in 1962. It was initially developed from the generous presentation from persons like Nirmal Chandra Chowdhury and Santipriya Raychaudhuri who contributed their lifelong collections to the University to the cause of scholarship. The faculty members of the Department of History, North Bengal University helped in the organization with unrelenting attention for its development. However, only in February 1965 was it partially opened for inquisitive public exclusively, those who were genuinely interested in some kind of historical research.

The Museum was opened to general public on 28<sup>th</sup> December, 2006 when it was shifted to new building, and formally inaugurated by the then Chief Minister of West Bengal. The Museum has become the repository of the culture of the people of the northern districts of West Bengal. It is the most useful representative of the material culture of the region. Now the museum legitimately takes pride in its substantial collection of stone and metal images, terracotta works, coins, manuscripts etc. Major portion of such collections belong to the period between 8<sup>th</sup> Century and 12<sup>th</sup> Century through even older pieces are also in the possession of the Museum. The Museum at present has emerged as one of the favored destinations of scholars, researchers and students. Scholars from different parts of India and some even from China, Bangladesh, Sri Lanka, Japan, Taiwan and other countries visit the Museum.

### Details of the Director:

| Name            | Qualification | Designation | Email                |
|-----------------|---------------|-------------|----------------------|
| Dr. Sudash Lama | M.A. Ph.D.    | Director    | lamasudash@nbu.ac.in |

### Details of the Officer:

| Name           | Qualification      | Designation       | Email                  |
|----------------|--------------------|-------------------|------------------------|
| Dr. Malay Saha | M.A., B.Ed., Ph.D. | Assistant Curator | assistantcur@nbu.ac.in |

### Details of Non-Teaching Staff:

| Name and E-mail               | Qualification     | Designation               |
|-------------------------------|-------------------|---------------------------|
| Shri Bijoy Sankar Chakraborti | B.A.              | Office Assistant (Casual) |
| Shri Mahesh Modak             | Class IX Appeared | Record Supplier           |
| Shri Arun Mallick             | Class IX Appeared | Office Attendant (Casual) |

**Activities of the Museum:**

- a) The AKM Heritage Museum has organized an Exhibition on “Antique Objects of the Museum” on 25<sup>th</sup> January, 2021
- b) The Museum boundary wall has been decorated with the images of Museum objects for better publicity
- c) Vinyl Flexes have been installed on the University Bus to create publicity and awareness to the general public about the Museum and its value
- d) The Museum has organized a Book Launch Ceremony of “Eṣl ꞡce;Sfṡ-II fṡl;LṡṡaÑ” written by Dr. Brindaban Ghosh and also Art Exhibition by the Scholar
- e) The Museum has published a Monograph on “উত্তরবঙ্গের লৌকিক জলযান” by Dr. Bimalendu Majumdar

**Visitors:**

Due to the outbreak of Covid-19 and declaration of pandemic, no visitors were allowed to visit the Museum during this period.

## CENTRE FOR INFORMATION AND RESOURCE MANAGEMENT

### About the Centre:

University Computer Centre is serving as a central hub for IT-related services on the campus since 1983 to meet the academic and research needs of the academic community of the University, including students and researchers. This state-of-the-art establishment got renamed as Centre for Information and Resource Management (CIRM) in 2020.

Keeping education and research in synchronization with modernization, NBU has been leveraging ICT as a tool to induce strategic improvement and changes in both academic and administrative practices. The CIRM plays an important role in creating an enabling environment for teaching-learning, research, and governance. All activities related to ICT implementation is governed by a well-formed IT Policy

### Details of the Officers:

| Name                    | Designation           | Email                   |
|-------------------------|-----------------------|-------------------------|
| Shri Anirban Biswas     | System Manager & Head | systemmanager@nbu.ac.in |
| Shri Sudeep Basu        | System Engineer       | systemeng@nbu.ac.in     |
| Shri Amitava Deb Barman | Programmer            | programmer1@nbu.ac.in   |
| Shri Utpal Mandi        | Programmer            | programmer2@nbu.ac.in   |

### Details of Non-Teaching Staff:

| Name                          | Designation                    |
|-------------------------------|--------------------------------|
| Avijit Bagchi                 | Office Assistant (on contract) |
| Gyanandra Narayan Chakraborty | Office Attendant (on contract) |
| Santosh Mandal                | Jr. Peon (Casual Staff)        |

### Activities of CIRM during 2020-21:

During pandemic when everyone was talking about “breaking the chain”, the toughest challenge for the University was to keep the chain intact between the academic stakeholders and the University. The prime activities on focus were admission, examination, and continuation of the teaching-learning process. The main challenging area was to ensure no interruption in the teaching-learning process and all thanks to the advent of technology to cope up with the situation. The first



step forward was to modify the official website to a single-window system where any sought-after information can easily be searched. The Centre was able to develop the same, completely in-house, which is not only richer in information but at the same time more secure and robust. Anything and everything regarding the programs running in the University is accessible through this website almost in real-time.

Extreme care had been taken to continue the process of teaching by the faculty members of the University. The University primarily used the virtual platform provided by Google, as the University had subscribed to GSuite for Education. Now all the faculty members and research students have their own institutional email ids for seamless communication among them. Most of the University Departments now have their own YouTube Channels to disseminate learning videos to the students and ensure that the digital divide does not impact the learning process of the students.

The University tried its best to open up all feasible options to reach the students with the academic information they needed to enrich themselves. Now almost all the University published journals are online and are accessible through the website. University subscribed journals can now be accessed by University faculty and research students from any geographical corner of the globe using the VPN technology, implemented in-house, through secured credentials. The huge collection of the University Library is now accessible through OPAC and Institutional Repository. The website is also designed to browse the open-access virtual resources and collections in one place.

The University has missed the physical interactions of external academic experts due to non-occurrences of seminar for the last one year, but this threat actually opened up a new window of opportunity to listen and discuss with the subject experts with National and International repute. Many Departments have organized lecture series with Internationally acclaimed Professors through webinars. University is also conducting the Faculty Induction Programs and Orientation Programs for College and University academicians on a virtual mode.

The pandemic has changed the whole digital scenario of the teaching-learning system and we are still on the learning curve. The Centre had upgraded the network architecture to make it more secure, faster and seamless to support these new technology adaptations. Now all the sections of the academic community are adapting to this changed scenario and are enjoying the makeover.

### **Core Services at CIRM:**

**Help & Advice:** In partnership with authorized ICT vendors, CIRM offers the help, support and advice required to keep IT working across the University academic and administrative departments on 24 X 7 basis, including the smart campus support.

**Network & Internet:** CIRM provides a centrally managed enterprise-class campus-wide network is the most effective and efficient method for achieving University's goals in information transport.

The current bandwidth is more than 1 Gbps. Under the NMEICT project, the CIRM is provided with a leased line (1:1) from BSNL for its main Campus at Raja Rammohanpur, Siliguri – 13, w.e.f. 2011 – 12 and a 400 Mbps Leased Line connectivity from Vodaphone Idea.

**Manage Institutional Emails:** To promote collaboration among the academic and administrative staff of the University, CIRM has implemented Google Suit for education with the premiere facility of institutional emails for all academic stakeholders.

**Teaching & Learning:** CIRM help University's teaching and learning community get the most from IT for teaching and learning, and promote innovative use of learning management environment, cutting-edge technologies for teaching on a virtual platform.

**Web Publishing & Hosting:** CIRM is responsible for design, develop and maintain the entire website, and is liable to coordinate all the matters related to governance of the website and its content, following the Web Development & Management Policy.

**Virtual Private Network (VPN)/Remote Access:** To access University subscribed resources from any geographies, CIRM provides access through NBU's Virtual Private Network (VPN) clients to the centrally-provided service only, to authorized users over Secure Socket Layer.

**Training & Research:** CIRM offers a huge range of customized IT trainings for academics, students and staff in our state-of-the-art IT learning environment. CIRM provides advice and support to researchers in planning, delivering and disseminating research.

**Information Systems:** CIRM information system portfolio ranges from core IT services and business applications to IT innovation in research. The MIS road-map advocates for in-house development with a formal project management approach. The NBU Pay Roll Management System, Finmin, is designed to view salary bills, PF balance and Income Tax information almost in real time. The Hostel Management System is designed to capture the application for accommodation in hostel, validation and auto allotments following the university polices

**Software Installation Services:** University does not allow any pirated/unauthorized software installation on the computers connected to the university network. CIRM takes care of the installation of licensed software subscribed centrally by the University.

**Information Security:** CIRM works to make sure that all IT services keep to a high standard of information security in accordance with the latest Information Security standards. Authorization to access University information must follow the University IT policy.

**Cluster Computing:** CIRM houses a high-performance computing cluster with 20 head nodes and 20 computing nodes, centrally used by researchers from University LAN and from an external network using a pre-configured VPN client.

**NAAC & NIRF:** CIRM is responsible for data warehousing related to NAAC, NIRF, and other for other relevant bodies as per the directive of the university authority. Team CIRM executes the data submission and required validation on the DCS Portals.

**Research Project Details:**

| <b>Title of the Project</b>   | <b>Funding Body</b> | <b>PI</b>                                     |
|---|---------------------|---|
| Multi-scale modelling of two dimensional materials and their van der Waals heterostructures and composites for application in next generation metal-ion batteries | SERB                | Dr. Amretashsis Sengupta,<br>Research Scholar |

## ENGINEERING BRANCH

### About the Branch:

The Engineering Department of North Bengal University is catering their services on 24x7 basis. The engineers and staffs of this department are working relentlessly from the inception of this department. The department is engaged with the new construction and as well as maintenance of the existing assets. Apart from that the department is also providing comprehensive services for day to day electrical, civil, S&P, water supply works for the hostels, quarters, academic and administrative buildings throughout the year and most of the works are being carried out departmentally. The department has taken few flagship projects, few of which are ongoing and few are in the pipeline.

The University Engineer is having the headship to lead the engineering team. Four officers and around 60 staffs are accompanied him to accomplish the entire works as a team. A good number of substantive staffs are lying vacant (around 42 posts in different categories) at the moment under this department, instead of that the department is handling their duties and responsibilities efficiently round the clock.

### Details of the Officers:

| Name                   | Designation                                | Email                   |
|------------------------|--|-------------------------|
| Er. Anirban Goon       | Chief Engineer                             | ue@nbu.ac.in            |
| Er. Debaish Kar        | Assistant Engineer, Civil                  | assistanteng1@nbu.ac.in |
| Er. Kunal Chowdhury    | Assistant Engineer, Electrical             | assistanteng2@nbu.ac.in |
| Er. Kaushik Chatterjee | Assistant Engineer, Civil<br>(on contract) | -                       |

### Details of Ongoing and Completed Projects:

| Sl. No. | Name of the Project                           | Project Cost (Rs.) | Funding Agency                | Status of work |
|---------|---|--------------------|-------------------------------|----------------|
| 1       | Construction of one Women's Hostel            | 4,30,46,305        | RUSA                          | Ongoing        |
| 2       | Horizontal Extension of Philosophy Department | 1,03,86,887        | UGC + State Govt./ University | Ongoing        |

| <b>Sl. No.</b> | <b>Name of the Project</b>  | <b>Project Cost (Rs.)</b> | <b>Funding Agency</b> | <b>Status of work</b> |
|----------------|---|---------------------------|-----------------------|-----------------------|
| 3              | Construction of Toilet Block, CCTV monitoring cell, Information Centre, Career Counselling and Placement cell   | 65,22,090                 | RUSA                  | Ongoing               |
| 4              | Construction of Boys' Hostel at Jalpaiguri 2 <sup>nd</sup> campus   | 8,53,22,440               | State Govt.           | Ongoing               |
| 5              | Construction of Girls' Hostel at Jalpaiguri 2 <sup>nd</sup> campus.   | 8,72,39,858               | State Govt.           | Ongoing               |
| 6              | Major renovation of Humanities Building (Civil + Electrical)  | 93,38,629                 | RUSA+ State Govt.     | Ongoing               |
| 7              | Thorough internal upgradation and external repairing & renovation of existing Life Science Building of the University of North Bengal   | 83,76,582                 | State Govt.           | Ongoing               |
| 8              | Reconstruction of boundary wall at the back side of R.S. Hostel (women) including providing a sausage boulder crate for protection of back filling of the wall at NBU (length 40.0 m approx.).  | 7,65,709                  | State Govt            | Ongoing               |
| 9              | Roof repairing works at Estate office, E33-37, E38-41(A), E29-32, E124&124, E110-117, W/282-283(B), W/287, USIC old Building, Computer Sc. Dept., W/182-184(A), W/185-190, Sociology Dept., Cosmic Ray, W/298, W/209 and others allied works at NBU Campus, NBU". | 33,66,627                 | State Govt.           | Ongoing               |
| 10             | Replacement of entire roof sheets at NBU Khela Ghar.  | 5,37,540                  | State Govt.           | Ongoing               |
| 11             | Making of 7 Nos. of ramps and renovation of 13 nos. of existing toilets for the differently abled personnel in different buildings within the campus of NBU   | 13,31,351                 | State Govt.           | Ongoing               |
| 12             | Renovation work of 8 nos. rooms, lounge area, staircase passage, dining hall, roof treatment works etc. at Guest House old portion, necessary renovation of 5 nos. toilets at Chemistry Department, Parking area development in front of Engineering              | 20,99,745                 | State Govt.           | Ongoing               |

| Sl. No. | Name of the Project   | Project Cost (Rs.) | Funding Agency | Status of work |
|---------|---|--------------------|----------------|----------------|
|         | branch, Biotechnology department, Computer Centre along with some other necessary works at other places at NBU Campus.  |                    |                |                |
| 13      | Laying of underground cable including replacement of few main panels & installation of feeder pillars at Eastern Sector of NBU main campus  | 59,28,274          | State Govt.    | Ongoing        |
| 14      | Roof protection and repair with other necessary allied works at MBA, Geography, Botany, Mathematics, Administrative (excluding annex) building, Rani Bhabani Hostel (main block) at NBU Campus                                      | 48,44,968          | State Govt.    | Ongoing        |
| 15      | Replacement of old rusted tin sheet with PUF insulated sandwich roof panels at Rabindra Bhanu Mancha along with some other allied works at NBU Campus   | 15,35,532          | State Govt.    | Ongoing        |
| 16      | Installation of new P.V.C main pipeline from IT Pump House to 3 no. Gate, SBI building, Boys hostel more at Eastern Sector and Himalayan Sector teacher's quarters at Western Sector along with other necessary works at NBU Campus | 28,97,180          | State Govt.    | Ongoing        |

#### Details of Upcoming Projects:

| Sl. No. | Name of upcoming projects                                       |
|---------|---|
| 1       | Construction of Vigyan Bhavan cum Auditorium                    |
| 2       | Construction of Siksha Bhavan                                   |
| 3       | Construction of Gymnasium                                       |
| 4       | Construction of Post Matric ST Girls Hostel                     |
| 5       | Construction of Teachers', Officers' and Staffs' Quarters       |
| 6       | Horizontal Extension of Engineering Department                  |
| 7       | Construction of 2 (two) new Electrical Substation               |
| 8       | Installation of DG and other allied works for Department of Law |

|    |   |
|----|---|
| 9  | Construction of new Over Head Tank at Eastern Sector of NBU.                            |
| 10 | Installation of Submersible pumps at different location of NBU for capacity enhancement |
| 11 | Construction of Boundary Wall from 2 No Gate to Ram Mohan Statue                        |
| 12 | Construction of Boundary Wall along the Asian Highway                                   |
| 13 | Vertical Extension of Bank/Post Office Building   |
| 14 | Annex Building of MBA Department  |
| 15 | Annex Building of Computer Science and Application                                      |

## ESTATE OFFICE

### About the Office:

The Estate Office is maintaining the 316 acres of the University land including maintenance of twenty numbers of flower garden and more than three hundred numbers of fruits and other plants of the campus round the year. The Division works wholeheartedly to keep the University campus green and beautiful.

Apart from the above duties, the Division extend the following duties and responsibilities –

- Maintenance service provided to the University Guest House at Raja Rammohunpur Campus and Salt Lake Campus
- Maintenance and service provided to Vidyasagar Manch, Rabindra Bhanu Manch and Conference Hall of the Administrative building
- Plays major role in conducting Annual Convocation, Celebration of Independence Day, Republic Day, Netaji Birth Day and other Occasion as directed by the authority
- Management of the total residential quarters for Teachers/ Officers/ Non-Teaching employees
- Maintenance of the all Water Purifiers of the University

### Details of the Officer:

| Name                    | Designation        | Email           |
|-------------------------|--------------------|-----------------|
| Shri Kamala Kanta Ghosh | Sr. Estate Officer | kkgeo@nbu.ac.in |



## HEALTH CENTRE

### About the Centre:

Health Centre of the University provides OPD services from 8.30 a.m. to 5.30 p.m. and emergency on-call services for the rest of the day. The services provided are doctor consultation with specialization in general physician, eye, pediatrics, gynecology, pathology and dentist, emergency management with referral services to higher centre if needed and laboratory services.

The Medical Officer acts as liaison between the State Health service and the University to provide preventive and promotive health services to the students and staff and carry on the National Health Programmes inside the campus as applicable. Periodical Information, Education and Communication (IEC) materials are provided to the students both online and offline and awareness programs are held to promote health awareness.

### Services Provided the Health Centre:

- OPD services from 08.30 am to 05:30 pm
- Laboratory services (Hematology, Urine and Stool Examination, Bio-Chemical, Serology, etc.) from 09:00 am to 04:00 pm
- Pharmacy services from 08.30 am to 05.30 pm
- 24 hours Ambulance services

### Doctors Available in Health Centre:

| Name and Qualification                             | Specialty                                 | Timings                                 |
|--|---|---|
| Dr. Amlan Ghosh<br>BDS                             | Dental and Oral Surgeon                   | 01:30 pm to 04:30 pm<br>(Tue, Wed, Fri) |
| Dr. Ravi Prakash Agarwalla<br>MBBS, MD (Pathology) | Consultant Pathologist                    | 11:30 am to 12:30 pm<br>(Mon to Fri)    |
| Dr. Siddharth Basak<br>MBBS, DCH                   | Child Specialist and General<br>Physician | 03:00 pm to 05:00 pm<br>(Mon to Fri)    |
| Dr. Shubarna Kr. Paul<br>MBBS                      | General Physician                         | 08:30 am to 10:30 am<br>(Mon to Fri)    |
| Dr. Bipul Das<br>MBBS, DO, MAIOS                   | Eye Surgeon                               | 12:00 pm to 02:00 pm<br>(Fri)           |
| Dr Zakia Banu,<br>MBBS, PGDHHM, PGDMCH             | General Physician, Woman's<br>Health      | 10:30 am to 05:30 pm<br>(Mon to Fri)    |

**Details of the Officer:**

| Name           | Designation     | Email                    |
|----------------|-----------------|--------------------------|
| Dr. Zakia Banu | Medical Officer | medicalofficer@nbu.ac.in |

**Details of Support Staff:**

| Name             | Designation          | Qualification | Email                         |
|------------------|----------------------|---------------|-------------------------------|
| Sujan Kumar Das  | Tech. Asst. Gr. II   | B. Sc. DLT    | sujan_kumar_das@yahoo.com     |
| Manju Singha Roy | Jr. Asst. Cum-Typist | B.A.,MLIS     | manjusingha.library@gmail.com |
| Aritri Das       | Jr. Pharmacist       | M. Pharma     | Aritridas125@gmail.com        |
| Babli Mazumdar   | Helper Gr. III       | Non-matric    | babli_mazumdar@yahoo.com      |
| Binoti Oraon     | Sr. Peon             | Non-matric    | binati_oraon@yahoo.com        |

**Details of Services Provided in 2020-21:**

|  |             |
|--|-------------|
| <b>Number of Patients examined at the Health Centre</b>  | <b>1504</b> |
| <b>Number of Patients investigated at the Clinical Pathology Laboratory of Health Centre including ECG</b> | 446         |
| <b>Total amount of earnings from the services at the Clinical Pathology Laboratory</b>                     | Rs. 87,744  |
| <b>Number of Samples investigated at the Clinical Pathology Laboratory</b>                                 | 11,350      |
| <b>Total amount of earnings from the Dental Treatment</b>  | Rs. 324     |

Apart from the above routine services, to combat the COVID situation in the campus, the Centre has also extended Safe Home and Nursing services on 24 x 7 basis with doctor available on round the clock basis. Oxygen cylinders have also made available for critical patients.

## **SPORTS BOARD**

### **About the Board:**

Sports is a means of physical and mental development besides creating harmony in the country. Sports is like a matrix where persons of all creeds, color, religion and socio-economic status have the level playing ground. It is a melting pot where all and sundry have equal rights and opportunities. Sports is, thus, a glowing example of national integration. The participation in sports makes a nation fitter and also reduces the burden of morbidity and mortality in the population.

The basic rationale of the policy is to reach out to all registered students of the University by addressing their sporting and recreation needs. The policy aims to encourage students to undertake all such activities that develop healthy and long lasting life styles. The nodal point of sports in the University is the North Bengal University Sports Board. As per the Rules of the University, Sports Board is responsible for implementation and ensure compliance with this policy.

The major aim and objective of the Sports Board, University of North Bengal are –

- To organize, control, manage and supervise inter-collegiate sports and games amongst the students of the university, colleges, and institutions affiliated thereto
- To send the University teams in the Inter-University Tournaments organized by A.I.U in different sports and games through selection trials and coaching camps
- To undertake, control and conduct inter-university competitions
- To award trophies, cups, certificates, blues etc.
- To conduct adventure sports with the students of different colleges.

### **Details of the Secretary:**

| <b>Name</b>      | <b>Designation</b>      | <b>Email</b>          |
|------------------|-------------------------|-----------------------|
| Shri Surajit Das | Secretary, Sports Board | dassuraonbu@nbu.ac.in |

### **Activities of the Board in 2020 - 21:**

Due to outbreak of COVID 19 throughout the country and in compliance of the government orders to contain the spread of the diseases, no sports activities have been conducted in this year.

## UNIVERSITY LIBRARY

### About the Library:

The University Library was established along-with the establishment of the University in 1962 in order to meet the academic and research needs of the Students, Research Scholars and the Teachers. The University Library provides books, journals as well as current information on various topics to fulfil the need of the various components of the university community viz. teachers, research scholars, students, officers and staff towards the fulfilment of their objectives. It is the only Library in North Bengal region, which facilitates research and higher learning by providing books, journals and other documents to the teachers, research scholars and students.

The Library is a three storied building with 3108.13 sq. m. carpet area. The location of the University Library is at the Western side of the University Administrative Building and North of Padmaja Park. University Library has built up a rich collection on all branches of Science, Arts, Commerce and Management. The library is the member of E-ShodhSindhu: Consortium for Higher Education Electronics for on line subscription of journals. Library LAN has become a part of campus wide network, which has made it possible for the academic community of various Departments to access information from their adobe. The Library Committee regulates Policy, Planning, Process and all the developmental activities of the library. It renders instructions regarding management of funds set apart for the functioning of the University Library system. The Chairman of the Library Committee is the Hon'ble Vice-Chancellor and the Librarian of the University is Secretary, Ex-Officio member.

### Details of the Officers:

| Name                           | Designation               | Email                     |
|--------------------------------|---------------------------|---------------------------|
| Dr. Mriganka Mandal            | University Librarian      | nbulibrarian@nbu.ac.in    |
| Shri Brindaban Karmakar        | Joint Librarian           | b_karmakar@nbu.ac.in      |
| Shri Shubhrangshu Kumar Mistri | Deputy Librarian          | shubhrangshu@nbu.ac.in    |
| Shri Santanu Chanda            | Assistant Librarian       | santanu.library@nbu.ac.in |
| Smt. Yangzee Sherpa            | Assistant Librarian       | yangzee@nbu.ac.in         |
| Shri Manash Esh                | Sr. Information Scientist | manash@nbu.ac.in          |

### Details of Support Staff:

| Sl. No. | Name                         | Designation                    |
|---------|------------------------------|--------------------------------|
| 1       | Dr. Parimal Chandra Roy      | Superintendent Library Service |
| 2       | Shri Anup Chandra Singha Roy | Asst. Librarian Gr. I          |
| 3       | Shri Naresh Chandra Barman   | Sr. Assistant                  |

| <b>Sl. No.</b> | <b>Name</b>               | <b>Designation</b>                              |
|----------------|---------------------------|---|
| 4              | Smt. Ranjita Roy          | Sr. Assistant                                   |
| 5              | Sri Sanatan Barman        | Sr. Binder                                      |
| 6              | Shri Bisu Das             | Record Keeper                                   |
| 7              | Shri Kabiraj Biswakarma   | Record Supplier                                 |
| 8              | Shri Rakesh Lakra         | Jr. Peon  |
| 9              | Shri Dinesh Mallick       | Jr. Superintendent                              |
| 10             | Shri Gyan Narayan Pradhan | Sorter  |
| 11             | Shri Avijit Chakraborty   | Library Professional (Casual Gr. III)           |
| 12             | Shri Pratap Singha        | Library Professional (Casual Gr. III)           |
| 13             | Shri Aniruddha Sarkar     | Library Professional (Casual Gr. III)           |
| 14             | Shri Pravakar Sharma      | Library Professional (Casual Gr. III)           |
| 15             | Smt. Paramita Sen         | Office Assistant (Casual Gr. III)               |
| 16             | Smt. Minakshi Bhowmick    | Casual Gr. III                                  |
| 17             | Shri Semanta Singha       | Casual Gr. D                                    |
| 18             | Sri Sanjay Sarkar         | Casual Gr. D                                    |
| 19             | Shri Mintu Singha         | Casual Gr. D                                    |
| 20             | Shri Surajit Singha       | Casual Gr. D                                    |
| 21             | Shri Anil Roy             | Casual Gr. D                                    |
| 22             | Shri Ashok Das            | Casual Gr. D                                    |
| 23             | Shri Sovan Ghosh          | Casual Gr. D                                    |
| 24             | Shri Mriganka Raha        | Casual Gr. D                                    |
| 25             | Shri Rakesh Mallick       | Casual Gr. D                                    |
| 26             | Shri Arun Kumar Biswas    | Contractual Gr. D                               |
| 27             | Smt. Susmita Chanda       | Library Professional (Casual Gr. III, Man-days) |
| 28             | Shri Sanjib Modak         | Library Professional (Casual Gr. III, Man-days) |
| 29             | Shri Juboraj Roy          | Library Professional (Casual Gr. III, Man-days) |

**Library Details:**

**Service Hours** : 10 a.m. to 5-30 p.m.

**Service Days** : Monday – Sunday (7 days except holidays)

**Carpet Area** : 3108.13 sq. m.

|  |   |  |
|--|---|--|
| <b>Total Collection (as on 31.03.2021)</b> | : | 3,05,218   |
| <b>Library Access</b>                      | : | Open Access & Closed Access  |
| <b>Library Security system</b>             | : | Manual and CCTV Surveillance   |
|  |   | IASLIC   |
|  |   | ILA  |
|  |   | BLA  |
| <b>Institutional Membership</b>            | : | British Council Library  |
|  |   | American Library   |
|  |   | DELNET   |
| <b>Status of Automation</b>                | : | Automated Database   |
| <b>Library Software</b>                    | : | SOUL 2.0   |
|  |   | INFLIBNET  |
| <b>Membership of Library Network</b>       | : | DELNET   |
| <b>Library Consortia</b>                   | : | e-ShodhSindhu Consortium for HE E-Resources  |
|  |   | <a href="http://11.0.98.17/nbulib/default">http://11.0.98.17/nbulib/default</a> (Internal)     |
| <b>Library Web Portal</b>                  | : | <a href="http://118.185.209.245:8081/nbulib">http://118.185.209.245:8081/nbulib</a> (External) |
| <b>NBU Information Repository</b>          | : | <a href="https://ir.nbu.ac.in">https://ir.nbu.ac.in</a>  |

**Services, Facilities and Functions of University Library:**

- Bibliographic Service
- Reference Service
- Information Service
- Reprographic Facilities
- Internet Facilities
- Online Access to Selected Journals through e-ShodhSindhu
- Database Search through INFLIBNET

- Study and Research Support Service
- Information Hub for Students, Teachers & Research Scholars
- Journals of National and International repute
- Provision for Accessing the Rare Books
- Lending facilities for books
- After processing the documents are being sent regularly to Seminar Libraries as required
- Display of Information regarding arrival of Books and Journals
- OPAC and Web OPAC
- Career Guidance Service
- Resource Sharing/Inter Library Loan
- Facilities to the Retired Teachers, Officers and Employees
- User Orientation
- Facilities for other colleges & Research Organizations
- Services extended to Jalpaiguri Campus
- Plagiarism Checking up of Theses/Dissertations/Articles
- Institutional Repository has rich variety of collection like thesis, university publication, rare book collection, administrative documents etc.
- Remote Access Facility
- Online Databases and Journals facility
- Open Access e-resources
- E-reference Services
- E-books and Online Magazines services
- Access digital copy of census India data of different states
- Access to Online and Offline Census report

**Library Statistics (as on 31<sup>st</sup> March, 2021):**

| <b>Particulars</b>                    | <b>Numbers</b> |
|---------------------------------------|----------------|
| Total number of documents accessioned | 305218         |
| Text Books                            | 250252         |
| Reference Books                       | 9144           |
| Rare Books                            | 648            |
| Bound Periodicals                     | 38,745         |

| <b>Particulars</b>  | <b>Numbers</b> |
|---------------------|----------------|
| Theses              | 1943           |
| Non-Print Materials | 1,049          |
| Census              | 2350           |
| Reports             | 1794           |
| Gazetters           | 180            |
| Dataties            | 201            |

**Journals/Periodicals Subscription in 2020 – 21:**

| <b>Journals/Periodicals</b> | <b>Numbers</b> |
|-----------------------------|----------------|
| Indian                      | 53             |
| Foreign                     | 105            |
| Online                      | 29             |
| <b>Total</b>                | <b>187</b>     |

**Digitalization in 2020 - 21:**

| <b>Journals/Periodicals</b> | <b>Numbers</b> |
|-----------------------------|----------------|
| Retrospective theses        | 50             |
| Rare books                  | 609            |

**Other Details:**

| <b>Particulars</b>   | <b>Details</b> |
|--|----------------|
| Total number of documents added in 2020-21   | 1460           |
| Total expenditure for subscription of current Journals/Periodicals in 2020-21                            | Rs. 2,26,82936 |
| Total number of E-Journal/E-Periodicals available on On-line through e-ShodhSindhu Consortium in 2020-21 | 10,000         |
| Creation of computerized membership database in 2020-21  | 39             |
| Total Number of data entered in the SOUL database in 2020-21   | 125            |
| Existing number of users of online journal in 2020-21  | 60,132         |
| Contribution to Union catalogue of INFLIBNET in 2020-21  | 2574           |



| <b>Particulars</b>                      | <b>Details</b> |
|---|----------------|
| Total number of student members         | 2546           |
| Total number of others members          | 686            |
| Average issue/return of books (daily)   | 136.5          |
| Present seating capacity of the library | 150            |

**Book Budget (during 2020-21):**

| <b>Grant</b>     | <b>Amount</b>       |
|------------------|---------------------|
| State Grant      | Rs. 1,73,880        |
| SAP              | Rs. 2,00,000        |
| University Grant | Rs. 4,10,737        |
| <b>Total</b>     | <b>Rs. 7,84,617</b> |

## UNIVERSITY LIBRARY – JALPAIGURI CAMPUS

|                       |  |
|-----------------------|--|
| Total No. of Books    | : 4275                                   |
| Library Hours         | : 11:00 am to 5:00 pm (Monday to Friday) |
| Book Lending Hours    | : 12:00 noon to 4:00 pm                  |
| No. of Teacher Member | : 5                                      |
| No. of Student Member | : 128                                    |

### Details of Library Staff:

| Sl. No. | Name               | Designation                |
|---------|--------------------|----------------------------|
| 1       | Dr. Susmita Misra  | Librarian-In-Charge(Addl.) |
| 2       | Mr. Abhijit Sarkar | Group-D (Man-days)         |

### Student Membership Details:

| Name of the Department        | Nos. |
|-------------------------------|------|
| Bengali                       | 38   |
| English                       | 26   |
| Geography & Applied Geography | 23   |
| Sanskrit                      | 41   |
| Total                         | 128  |

### Rules:

- Students members are eligible to borrow maximum limit of 2 books for 15 days
- Teacher members are eligible to borrow maximum limit of 5 books for 30 days
- Subject to permission of the Library-in-charge, a non-lending book may be issued overnight and the same is required to be returned to the library the next working day within 12 noon
- Reprography facility is available for the teachers and students

## UNIVERSITY PRESS

### About the Press:

University Press, University of North Bengal was established in the year 1972 with the objective of Printing & Binding of articles of various academic and administrative Departments, mainly Examination related works. It started its journey in a hall with mono color Letter Press machine, cutting machine and accessories. With passing of time, various machines were installed with the change of technology.

Though in early years Press used to do the work of Controller of Examination in major but in later years it expanded its job periphery. Presently North Bengal University Press has been successfully engaged in printing Annual Journals of various Departments besides printing of routine jobs, prospectus of different courses, abstracts and other materials of seminars, different reports and newsletters.

Presently University Press building has 3 blocks -

|                          |                |
|--------------------------|----------------|
| Office & Store block     | : 3450 sq. ft. |
| Printing & Compose block | : 1700 sq. ft. |
| Binding & Store Room     | : 3450 sq. ft. |

The University press extends printing services for -

- Confidential works of Examination branch
- Various Forms, Challans, Fee Book
- Various Reports like Annual Report, Annual Accounts, Budget, etc
- Study material of Directorate of Distance Education, NBU.
- Placement and Information Brochures and Souvenirs.
- Greetings Card, Display Card and Invitation Card of Workshops and Seminars.
- Journals of various departments.
- Books
- Certificates
- Visiting Card, Identity Card, Vehicle Stickers, etc.
- Printing materials for various National & International Seminars.

Presently University Press is functioning with three segments –

- a. Compose Section
- b. Printing Section
- c. Binding and Finishing Section

**Facilities Available at University Press:**

| Sl | Particulars                      | Working condition | Out of order | Total  |
|----|----------------------------------|-------------------|--------------|--------|
| 01 | Offset Printing machines         | 3                 | 2            | 5 Nos. |
| 02 | Letter Press machines            | 1                 | 2            | 3 Nos. |
| 03 | Perfect Binding machine          | 1                 | NIL          | 1 No.  |
| 04 | Cutting machine                  | 1                 | 1            | 2 Nos. |
| 05 | Folding machine                  | 1                 | NIL          | 1 No.  |
| 06 | Lamination machine               | 1                 | NIL          | 1 No.  |
| 07 | Stitching machine                | 1                 | NIL          | 1 No.  |
| 08 | Perforating cum Creasing machine | 1                 | NIL          | 1 No.  |
| 09 | A3 size Color Printer            | 1                 | 2            | 3 Nos. |
| 10 | A4 size Color printer            | 1                 | NIL          | 1 No.  |
| 11 | B & W printers                   | 2                 | 3            | 5 Nos. |
| 12 | Desktop Computers                | 2                 | 3            | 5 Nos. |

**Staff Details:**

| Sl. No. | Name                 | Designation                            |
|---------|----------------------|--|
| 01      | Uttam Nunia          | Superintendent                         |
| 02      | Indraneel Roy        | Assistant Superintendent               |
| 03      | Naresh Ch. Roy       | Sr. Assistant                          |
| 04      | Debasish Chakraborty | Sr. Assistant                          |
| 05      | Hemanta Kr. Singha   | Sr. Binder                             |
| 06      | Motilal Murmu        | Sr. Peon                               |
| 07      | Bidhan Ch. Roy       | Helper (Gr-III)                        |
| 08      | Anup Ghosh           | Sr. Peon                               |
| 09      | Raja Basfore         | Jr. Peon                               |
| 10      | Amit Kr. Gupta       | Offset Machine man, Contractual (Gr-C) |
| 11      | Kamalendu Mallick    | Offset Machine man, Contractual (Gr-C) |
| 12      | Bimal Das            | Offset Machine man, Contractual (Gr-C) |
| 13      | Md. Malek Hossain    | Offset Machine man, Contractual (Gr-C) |
| 14      | Dil Bahadur Thapa    | Computer Operator (Casual) Gr-C        |
| 15      | Chandan Singha       | Machine man (Casual) Gr-C              |
| 16      | Probhat Nag          | Helper (Casual) Gr-D                   |
| 17      | Atindra Das          | Helper (Casual) Gr-D                   |
| 18      | Ajoy Ghosh           | Helper (Casual) Gr-D                   |
| 19      | Jagannath Singha     | Helper (Casual) Gr-D                   |
| 20      | Pranab Kr. Singha    | Helper (Casual) Gr-D                   |
| 21      | Motilal Singham      | Helper (Casual) Gr-D                   |

| <b>Sl. No.</b> | <b>Name</b>     | <b>Designation</b>   |
|----------------|-----------------|----------------------|
| 22             | Naba Kr. Singha | Helper (Casual) Gr-D |

In the year 2020-21 University Press has completed 114 indents and generated revenue of Rs. 27.90 lakhs

## UNIVERSITY SCIENCE AND INSTRUMENTATION CENTRE

### About the Centre:

University Science Instrumentation Centre (USIC) was established in the year 1978 with its aim to offer services in terms of maintenance, repairing and fabrication of scientific equipment to the students, research scholars, and faculty members of all departments of the University. It is a Level-II centre and provides these services when a request from the departmental head concerned as well as the lab-in-charge is received. The Centre also provides computer maintenance support to various academic and non-academic Departments of this University.

USIC is running with its regular activities for repairing, maintenance, fabrication, assembling etc. of the scientific instruments to cater services to research scholars, students, teachers, officers of different departments and centers. The centre is also entrusted with the responsibility of repairing different instruments before disposal. The Centre broadly runs as per UGC guidelines.

The centre has the following facilities:

- Mechanical Workshop
- Electrical and Electronics
- Computer and peripherals
- Major Scientific Equipment
- Liquid Nitrogen Production Plant

### Details of the Officers:

| Name                    | Designation                    | Email                       |
|-------------------------|--------------------------------|-----------------------------|
| Shri Gautam Sarkar      | Technical Officer III and Head | gs72@nbu.ac.in              |
| Shri Soumyadeep Laha    | Technical Officer I            | techofficer1@nbu.ac.in      |
| Dr. Prajnamita Dasgupta | Scientific Officer             | scientificofficer@nbu.ac.in |

### Details of Support Staff:

| Name                  | Designation     |
|-----------------------|-----------------|
| Shri Ambarish Chettri | Senior Mechanic |
| Shri Harish Mishra    | Record Keeper   |

| <b>Name</b>        | <b>Designation</b>            |
|--------------------|-------------------------------|
| Shri Bikky Mallick | Junior Peon                   |
| Shri Rajib Das     | Office Assistant(Contractual) |

### **Services Extended by the USIC:**

Over the past few decades there has been an increase in interest for interdisciplinary, education and research. At present, it has become an integral part of higher education and research in Science & Technology. Multidisciplinary research activities can blend diverse areas of knowledge, skills and experience to generate innovative solutions to many challenging problems. Multidisciplinary projects can and should be the springboard for fundamental disciplinary advances too. While getting funds for such major equipment by a single department or by an individual researcher is unlikely, subsequent installation. Services and maintenance are even more challenging tasks in the present scenario.

To keep pace with the state-of-the-art interdisciplinary education and research activities in Science and Technology, it is imperative for the University to be equipped with a number of major equipment. University Science Instrumentation Centre (USIC) presently provide central facilities with sophisticated instruments like Liquid Nitrogen Plant and Scanning Electron Microscope.

### **A. Supply of Liquid Nitrogen:**

A centralized Liquid Nitrogen Plant (Liquid Nitrogen Plant of Striling Cryogenics, DH Industries BV, Netherlands) was installed at USIC in 2016. Liquid Nitrogen is constantly required to run NMR machine (Bruker 300MHz) installed at the Chemistry Department of NBU as well as different users associated with the research work in different research laboratories of the University. Currently USIC is in a position to supply the adequate Liquid Nitrogen required and the needs of various departments.

Supply details of liquid nitrogen in 2020-21:

| <b>Sl. No.</b> | <b>Month and Year</b> | <b>Amount in Litre</b>    |                         |
|----------------|-----------------------|---------------------------|-------------------------|
|                |                       | <b>Dept. of Chemistry</b> | <b>Other Department</b> |
| 1              | Apr, 20               | Lock Down                 |                         |
| 2              | May, 20               | Lock Down                 |                         |
| 3              | June, 20              | 550                       | 10                      |
| 4              | July, 20              | 550                       | 20                      |
| 5              | Aug, 20               | 350                       | 10                      |
| 6              | Sept, 20              | 650                       | 10                      |
| 7              | Oct, 20               | 300                       | 8                       |
| 8              | Nov, 20               | 600                       | 30                      |

| Sl. No.            | Month and Year | Amount in Litre    |                  |
|--------------------|----------------|--------------------|------------------|
|                    |                | Dept. of Chemistry | Other Department |
| 9                  | Dec, 20        | 350                | 30               |
| 10                 | Jan, 21        | 300                | 25               |
| 11                 | Feb, 21        | 100                | 10               |
| 12                 | Mar, 21        | 350                | 74               |
| <b>Sub Total</b>   |                | <b>4100</b>        | <b>227</b>       |
| <b>Grand Total</b> |                | <b>4327</b>        |                  |

### B. Image Analysis using Scanning Electron Microscope:

The Scanning Electron Microscope (SEM) is now an indispensable tool in scientific research. Jeol SEM (JSM IT100) was purchased and installed in December 2017 with the financial assistance from RUSA. Currently USIC is successfully providing the facility of analyzing and imaging of sample through SEM to various Departments in the University, affiliated colleges, other Universities and colleges and also to the industrial community of this region.

Details of SEM test done in 2020-21:

| Sl. No.      | Month and Year | No. of Test Conducted |
|--------------|----------------|-----------------------|
| 1            | Apr, 20        | Lock Down             |
| 2            | May, 20        | Lock Down             |
| 3            | June, 20       | 2                     |
| 4            | July, 20       | Lock Down             |
| 5            | Aug, 20        | Lock Down             |
| 6            | Sept, 20       | 5                     |
| 7            | Oct, 20        | 9                     |
| 8            | Nov, 20        | 28                    |
| 9            | Dec, 20        | 40                    |
| 10           | Jan, 21        | 13                    |
| 11           | Feb, 21        | 32                    |
| 12           | Mar, 21        | 33                    |
| <b>Total</b> |                | <b>162</b>            |



**C. Repair, Fabrication, Design, Installation, Up-gradation Work:**

| Sl. No. | Month & Year | Repairing Jobs    |            |           |                          |
|---------|--------------|-------------------|------------|-----------|--------------------------|
|         |              | Total no. of Jobs | C.P.U      | Laptop    | Electronics & Electrical |
| 1       | Apr, 20      | Lock Down         |            |           |                          |
| 2       | May, 20      | Lock Down         |            |           |                          |
| 3       | June, 20     | 3                 | -          | 1         | 2                        |
| 4       | July, 20     | 10                | 3          | 3         | 4                        |
| 5       | Aug, 20      | 24                | 14         | 4         | 6                        |
| 6       | Sept, 20     | 43                | 18         | 2         | 23                       |
| 7       | Oct, 20      | 49                | 32         | 3         | 14                       |
| 8       | Nov, 20      | 30                | 12         | 2         | 16                       |
| 9       | Dec, 20      | 53                | 14         | 5         | 34                       |
| 10      | Jan, 21      | 45                | 14         | 3         | 28                       |
| 11      | Feb, 21      | 28                | 14         | 1         | 13                       |
| 12      | Mar, 21      | 28                | 11         | 3         | 14                       |
| Total   |              | <b>313</b>        | <b>132</b> | <b>27</b> | <b>154</b>               |

**Details of Seminar/Conferences /Webinar Attended:**

| Name of the Officer | Details of the Seminars/Conferences   | Date       |
|---------------------|---|------------|
| Soumyadeep Laha     | National Webinar on “The Role of Mathematical Modeling in Covid19 Pandemic Response: Main Challenges”, organised by Vijaygarh Jyotish Ray College, Kolkata and IQAC, CU | 22.06.2020 |
| Soumyadeep Laha     | Webinar on " <b>ZEISS Crossbeam laser: A new breakthrough for FIB-SEM applications in Materials Science</b> ", organised by ZEISS Microscopy Team                       | 27.08.2020 |
| Soumyadeep Laha     | Introductory Seminar on Astrophysics and Cosmology, organised by ICARD, NBU   | 16.09.2020 |

| <b>Name of the Officer</b> | <b>Details of the Seminars/Conferences</b>   | <b>Date</b> |
|----------------------------|--|-------------|
| Soumyadeep Laha            | One-day State-level Webinar on “Recent Advances in Basic and Applied Sciences”, organised by P.R.M.S Mahavidyalaya | 29.09.2020  |
| Prajnamita Dasgupta        | Introductory Seminar on Astrophysics and Cosmology, organised by ICARD, NBU  | 16.09.2020  |

**Publications:**

| <b>Name of the Author</b>   | <b>Details of Book/Journal/Volume</b>  | <b>Year</b> |
|---|--|-------------|
| Devi N A, Nongthombam S, Sinha S, Bhujel R, Rai S, Singh W I, <b>Dasgupta P</b> , Swain B P | Investigation of chemical bonding and supercapacitivity properties of Fe <sub>3</sub> O <sub>4</sub> -rGO nanocomposites for supercapacitor applications, <i>Diamond and Related Materials</i> , Vol 104, 107756 | 2020        |
| <b>Dasgupta P</b>   | Information and Communication Technology: Holistic Approach, Opportunities, Consequences and Challenges, Book: Teaching and Learning in Covid Era, Akhand Publishing House, ISBN 978-81-946006-9-5               | 2020        |
| Singh W I, Sinha S, Devi N A, <b>Laha S</b> , Nongthombam S and Swain B P                   | Investigation of chemical bonding and electronic network of rGO/PANI/PVA electrospun nanofiber, <i>Polymer Bulletin</i> , 78, pp. 6613–6629 ISSN: 01700839   | 2020        |

## **WATCH & WARD DEPARTMENT**

### **About the Department:**

University of North Bengal has an active Watch and Ward Department which is providing Safety and Security arrangements round the clock covering a vast land area throughout the campus including 6 Girls Hostels, 6 Boys Hostels, large number of Professors residences, Guest House, Departments, Buildings and a Museum with valuable and rare items.

This Department keep a good number of fleet to meet all the vehicular needs to the university students, research scholar, staff and faculty members, specially connecting with airport, railway station, nearby city and even if Jalpaiguri Campus also.

The Watch & Ward department keeps 24 hours' eyes open on the places and incidents that take place within the campus through CCTV Network System.

### **Duties of the Department:**

- To protect lives and to safeguard property
- To create a safe and secure environment for the entire University community
- To prevent crime, control criminal behaviour, maintain order, and reduce fear of crime
- To accomplish all security objectives legally and constitutionally, guided by North Bengal University Statute, Act, Ordinance and Rules
- To create partnerships with university and community groups, service agencies, institutions, and other criminal justice agencies
- To identify and solve problems
- To listen to community concerns
- To establish and support crime prevention programs
- To respond to calls for service
- To investigate crimes and prevention of crime
- To apprehend those who commit crimes
- Protection of life and property of the university and its residents
- Providing service to members of the university while at the same time preserving an environment conducive to the pursuit of educational goals and personal growth

**Vehicle Facilities:**

| <b>Type</b> | <b>No.</b> | <b>User / Purpose</b>  |
|-------------|------------|--|
| Bus         | 3          | Service is available to the students                                     |
| Ambulance   | 2          | Available for 24-hours, for all categories of the employees and students |
| Car         | 4          | For office use   |



**CHAPTER – VIII**  
**FACILITIES FOR THE STUDENTS**



## ANTI-RAGGING COMMITTEE

The Hon'ble Supreme Court of India has defined that "ragging is any disorderly conduct whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness to any student, indulging in rowdy or undisciplined activities which cause or likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student and which has the effect of causing or generating a sense of shame or embarrassment so as to adversely affect the psyche of a fresher or a junior student" and the apex court has held that conducting ragging is a criminal offence. According to the directions of the Supreme Court if any instance of ragging is brought to the notice of the administration or the faculty, it is legally binding on the institute to report the matter to the Local Police.

In compliance with the order, the University of North Bengal has constituted Ant-Ragging Committee and Anti-Ragging Squad to eradicate any chances of ragging in the campus. The Anti-Ragging Committee is the Supervisory and Advisory Committee on matters of planning action for building and preserving a culture of ragging free environment in the University campus. The Anti Ragging Squad works under the supervision of Anti Ragging Committee and engaged in surveillance of the places like hostels, buses, canteens, classrooms and other places of student congregation. They also sensitize the students at large in the University about menace of ragging and related punishment provisions.

The Composition of the Anti-Ragging Committee is –

### 1. Chairman

- Hon'ble Vice-Chancellor, University of North Bengal

### 2. Member – Convener

- Dr. S. Sanyal, Inspector of Colleges & Member-Secretary, Board of Residence and Discipline, NBU

### 3. Members:

#### A. Teaching Faculty:

- Prof. Saswati Biswas, Department of Sociology, NBU
- Dr. Arnab Sen, Department of Botany, NBU
- Professor Bikash Ch. Paul, Department of Physics, NBU
- Prof. Gangotri Chakraborty, Department of Law, NBU
- Dr. Anirban Mishra, Department of Chemistry, NBU
- Prof. Manoranjan Singha, Department of Mathematics, NBU
- Prof. Debika Saha, Department of Philosophy, NBU
- Dr. Indira Lepcha, Department of Geography & Applied Geography, NBU
- Dr. Shilpi Ghosh, Department of Biotechnology, NBU



- Prof. Manjula Bera, Department of Bengali, NBU
- Dr. Ramesh Dural, Department of Political Science, NBU
- Prof. K.K. Bagchi, Department of Economics, NBU
- Sri Varun Roy, Department of History, NBU
- Prof. Samirendra Nath Dhar, Department of Commerce, NBU
- Prof. Ranjan Ghosh, Department of English, NBU
- Prof. Manisha Jha, Department of Hindi, NBU

**B. Officer and Non-Teaching Staff:**

- Estate Officer, NBU
- Officer-in-Charge, Watch & Ward Department, NBU
- Secretary, FC for P.G. Studies in Science, NBU
- Secretary, Under Graduate Council, NBU
- Assistant Registrar, NBU Jalpaiguri Campus
- Secretary, NBUEA
- Secretary, SBTSS, NBU Unit.
- Secretary, NBUPEO
- Secretary, NBUASKA

**C. Civil and Police Administration:**

- Additional District Magistrate, Darjeeling, Siliguri
- Assistant Commissioner of Police (West), Siliguri
- Officer-In-Charge, Matigara Police Station

**D. Local Media:**

- Sri Subhankar Chakraborty, Uttar Banga Sambad.

**E. Non-Governmental Organization:**

- Sri Animesh Bose, HNAF

**F. Parents' Representatives:**

- To be nominated

**G. Students' Representatives Both Seniors and Fresher:**

- Sri Sourav Roy, Deptt of Mathematics, NBU
- Sri Himangshu Barman, Deptt of Bengali, NBU
- Sri Baichung Tamang, Deptt of Food Technology, NBU

## **HOSTEL**

In order to provide an abode of ideal ambience through happy housing, nutritious nourishment, and caring counselling to prepare the youth to carve out their careers, the University of North Bengal provides Hostel facilities to the bona-fide students of full time courses who meets required eligibility criteria. As hostel seats are limited, preference are given to the students whose residents are more than 45 km away from the University. Presently there are ten numbers of hostels including two hostels for the research scholars. Each hostel has in-house catering facility to provide healthy and hygienic foods to the hostel boarders. Special facilities in the Hostel are also available for the Physically Handicapped students.

The present number of hostels, for both male and female students, and their capacity are given below –

### **Boys' Hostel**

| <b>Sl. No.</b> | <b>Name of the Hostel</b>                       | <b>Seats/Room</b> | <b>Capacity</b> |
|----------------|---|-------------------|-----------------|
| 1              | Ramkrishna Hall of Residence (R.K. Hall)        | 2                 | 278             |
| 2              | Vivekananda Hall of Residence (V.K. Hall)       | 2                 | 316             |
| 3              | Vidyasagar Hall of Residence                    | 2                 | 60              |
| 4              | Law Hostel for Boys'                            | 2                 | 25              |
| 5              | Research Scholars' Hostel (R.S. Hostel for Men) | 1                 | 46              |

### **Girls' Hostel**

| <b>Sl. No.</b> | <b>Name of the Hostel</b>                         | <b>Seats/Room</b> | <b>Capacity</b> |
|----------------|---|-------------------|-----------------|
| 1              | Rani Bhawani Hostel                               | 2                 | 156             |
| 2              | Sarojini & Purneswari Hostel                      | 2                 | 200             |
| 3              | Nivedita Hostel                                   | 2                 | 126             |
| 4              | Law Hostel for Girls                              | 2                 | 16              |
| 5              | Research Scholars' Hostel (R.S. Hostel for Women) | 1                 | 43              |

Apart from fooding and lodging, the hostels are also equipped with sports equipment and entertainment facilities for the leisure of the boarders. The University also extends facilities to ensure safety of the students. Few of such arrangements are –

- Furnished and spacious dining room

- Sports equipment like volley balls, footballs, cricket bats and balls, wickets, carom, gym equipment, etc.
- Volley ball ground inside the hostel campus
- Fire extinguisher facilities
- Water purifier and cooler
- Hi speed WIFI
- Water heater
- LPG connection and Chimney in the kitchen
- Newspaper (English, Bengali, Hindi, Nepali)
- Colour television
- Photocopier
- Round the clock Security Services for the hostels

A Hostel Monitoring Committee comprising of Senior Professors, Officers, Superintendent of Hostels and Students' representatives look after the affairs of the hostels. Anti-Ragging squad of the University keeps surveillance on the Hostel to ensure healthy stay of the boarders.

The composition of the Hostel Monitoring Committee is as follows –

## **SCHOLARSHIPS AND FELLOWSHIPS**

In order to empower the academic and career goals of the students by removing the financial barrier, the University of North Bengal encourages and facilitates the eligible students to get various State and Central scholarships and fellowships. The present scholarships and fellowships available for the students of the University are given below –

### **Fellowship for Researchers:**

- UGC – NET – Junior Research Fellowship
- CSIR – NET – Junior Research Fellowship
- Maulana Azad National Fellowship for Minority Students
- National Fellowship for Other Backward Classes
- National Fellowship for Scheduled Caste
- National Fellowship for Scheduled Tribes
- West Bengal State Fellowship
- Swami Vivekananda Merit-Cum-Means Scholarship Scheme
- University Fellowship

### **Fellowship for PG Students:**

- Post Graduate Merit Scholarship Scheme for University Rank Holders
- Indira Gandhi Scholarship for Single Girl
- Swami Vivekananda Merit-Cum-Means Scholarship Scheme
- Kanyashree Prakalpa (Kannyashree-III)
- Oasis Scholarship

To facilitate the students and research fellows, the Office of the Registrar and the Office of the Development Officer look after the scholarships and fellowships respectively.

## **SC-ST CELL**

The SC/ST Cell at the University of North Bengal specifically concentrated on the welfare of the Scheduled Caste (SC) and Scheduled Tribe (ST) students and staff. The main purpose of the Cell is to monitor the guidelines issued by the MHRD, UGC and by the Government of West Bengal from time to time. The Cell ensures the effective implementation of the reservation policies in the university admissions to students in various courses of studies, accommodation in the hostels, appointments to the teaching and non-teaching posts, allotment of quarters in the university and maintenance of roster register in the University. The SC-ST Cell also ensures the scholarships, stipends etc. for welfare of reserved categories.

The SC/ST students and employees can approach the Coordinator of the Cell for redressal of any of their grievance(s) regarding academic, administrative or social problems. The Coordinator often meets the concerned students and staff, to understand their problem and takes necessary action and/or renders them necessary advice/help to resolve the matter.

Prof. M. N. Roy, Department of Chemistry, NBU

Prof. S.C. Roy, Department of Botany, NBU

Prof. K.K. Bagchi, Department of Economics, NBU-Convener.

## **STRESS MANAGEMENT CELL**

The Stress Management Cell of the University of North Bengal has been constituted as per the guidelines of the Ministry of Human Resource Development and University Grants Commission to take care of the students' mental health and address their tension and anxiety related to studies, career and health. The members of the Stress Management Cell attend calls from the students and others who are in need of mental support. The Composition of the Cell is as under: -

- Professor Palas R Sengupta, Professor (HRM and OB Area) and Head, Department of Commerce - Chairman
- Shri Sanmoy Mallick, Department of Management
- Dr. L.K. Padhi, Head, Department of Philosophy
- Ms. Swagata Ghosh, Department of Philosophy
- Ms. Khusboo Lepcha, Department of Microbiology
- Dr. Palash Mandal, Department of Botany
- Dr. Dipanwita Saha, Department of Bio Technology
- Dr. S. K. Rakshit, Dy. Registrar
- Mr. Surajit Das, Secretary, Sports Board
- Dr. Bibekananda Ghosh, Asst. Secretary, Sports Board-Convener

## **STUDENTS' GRIEVANCE REDRESSAL CELL**

In order to maintain the highest level of academic bonding with the students and to uphold their levels of wisdom, the University of North Bengal has always been in the quest of inculcating and nurturing an environment, where they can freely interact with the officers, staff-members and teachers of the University in any matter related to their academic or non-academic pursuits. Over the years, such a practice has become a part of the student management system and the University became keen to know if any student suffers from any form of discontent or dissatisfaction in any academic or non-academic matter and is able to express his concern to the University authority to redress it.

As a part of this gesture and in compliance with the University Grants Commission (Redress of Grievances of Students) Regulations – 2019, the University of North Bengal formed North Bengal University Students' Grievance Redressal Cell to initiate a student-friendly Grievance Redressal Mechanism through both the online and offline modes, where students are free to express or submit their concern with an ease.

The composition of the Students' Grievance Redressal Cell is –

Professor S.C. Roy, Head, Department of Botany, NBU

Dr. S. Sanyal, Inspector of Colleges, NBU & Secretary, Board of Residence & Discipline, NBU

Dr. Rajat Dey, Department of Physics, NBU

Prof. Ranjita Chakraborty, Department of Political Science, NBU

Prof. Sanchari Roy Mukherjee, Head Department of Economics, NBU

Dr. Zinia Mitra, Director, Centre for Women's Studies, NBU

Dr. Soumen Bhattacharjee, Department of Zoology, NBU

Dr. S. K. Rakshit, Deputy Registrar, NBU

Smt. Shankari Chakraborty, Assistant Controller of Examinations, NBU

## TRAINING AND PLACEMENT CELL

The main endeavor of the Training and Placement Cell of University of North Bengal is to get students placed in reputed multinationals, government organizations, NGO's and the private sector. All students registered with NBU are provided with placement assistance, counselling for employment and guidance for self/social entrepreneurship. The Training and Placement Cell also assures logistic support to the visiting companies at every stage of the placement process by making University infrastructure available to them. The University acts as an interface between the industry and the students, and primarily enable the students to select from their career options.

The Training and Placement Cell also arranges lectures and workshops on various topics like resume buildings, skill development and prospect in various industries. The composition of the Training and Placement Cell is –

|   |             |
|---|-------------|
| Prof. Pranab Ghosh, Professor, Department of Chemistry              | Advisor     |
| Dr. Prajnamita Dasgupta, Scientific Officer, USIC                   | Convener    |
| Sri Sumit Ray, Assistant Professor, Department of English           | Co-Convener |
| Sri Anirban Biswas, System Manager, CIRM                            | Member      |
| Dr. Sajal Das, Associate Professor, Department of Chemistry         | Member      |
| Sri Sanmoy Mallick, Assistant Professor, Department of Management   | Member      |
| Dr. Mukta Majumder, Asst. Professor, Dept. of Computer Sc. and App. | Member      |
| Dr. Sujit Biswas, Associate Professor, Department of Law            | Member      |
| Dr. Chandra Ghosh, Associate Professor, Department Tea Science      | Member      |



## MISCELLANEOUS FACILITIES

Apart from the facilities discussed before, some more miscellaneous facilities are also provided to the students for quality education, campus safety as well as to cope up with the technological advancements being undergoing across the globe. Few of such facilities are -

### **a. Modern Classrooms:**

In order to ensure quality and effective education, the University of North Bengal had been established 33 numbers of Smart Classroom under RUSA scheme in various academic Departments. The University has also set up virtual classroom in 25 Departments to enhance online learning environment which allows for live interaction between the faculty and the students as they are participating in learning activities. In other words, the virtual classroom is a shared online space where the students and the teacher work together simultaneously.

### **b. Computer Facility:**

The Computer Laboratories in the various Departments are well equipped connected with digital library. Latest system and application softwares are available in the laboratories. Through E-connectivity facility students can access latest books of journals of their interest for their academic benefits with the help of e-platforms.

### **c. Internet Facility:**

CIRM provides 1 Gbps leased line (1:1) from BSNL under National Mission for Education through Information & Communication Technologies (NMEICT) project of MHRD. NBU has another 300 Mbps of Internet bandwidth from Vodafone ISPs and integrated to give seamless access from both the ISPs. NBU has a hardware firewall (SOPHOSE) that both protects the NBU network from outside hackers, and in addition can balance the load and also works for filtering unnecessary traffic, streamlining traffic by specifying priorities, and blocking unwanted sites.

A phase-wise installation of Wi-Fi system is in progress to the strategically identified locations of the campus. The plan is to make the internet accessible to located at any corner of the campus. As of now, the Wi-Fi facility is available at all hostels, library, guest houses, administrative buildings and some of academic Department and Centre. All stakeholders including Students, Scholars, Faculties, Officers and Non-teaching staffs avail the facility using their individual authentication token.

### **d. CCTV Surveillance:**

In order to ensure safety and security without affecting the privacy of individuals, a sophisticated and intelligent IP Based CCTV Surveillance system has been installed at every geographical corner of the University campus including at the entrance and exit point of sites

and buildings. The system is based on Client-Server architecture. A total No of 200+ cameras are in operation 24x7 and live feeds are being monitored from a central control facility under the supervision of University Watch and Ward Department.

**e. Canteen:**

There is canteen facility in the University where the students and staff of the university can buy food at an affordable rate. A variety of snacks including meals during lunch hours is available for students and staff. The canteen is operated by outside agency which functions during the working hours of the University. The seating capacity of the canteen is 30. University provides furniture, refrigerator, gas, purified water & electric supply to the agency.

**f. Sports and Gymnasium:**

The University believes in all round growth of the students and as a consequence the students participate in different sports and games activities of the University. A sports complex named 'Khela Ghar' is dedicated for the use of students with multi-gym, badminton courts and table tennis boards. There are two big playgrounds available for the students for outdoor sports. The Sports Board of the University provides coaching facilities to the athletes and also organizes various sports events throughout the year.

**g. Auditorium:**

A state of the art modern auditorium of the University, named 'Rabindra Bhanu Manch', is available for cultural activities by the University stakeholders including students. The seating capacity of the auditorium is approximately 500. For even bigger cultural gatherings, the University has another auditorium named 'Vidyasagar Manch' having seating capacity of 1000 approximately.

**h. Bank and Post Office:**

A branch of the State Bank of India named NBU Branch is situated within the University campus near Gate 2A on rent, which facilitates financial transaction by the University stakeholders. There is an ATM kiosk beside the branch having facility for withdrawal, deposit and pass-book printing. Another ATM is available in the Administrative Building.

A Post Office is also located within University campus near Gate 2A. Numbers of post boxes are placed by the post office within the campus to facilitate postal activities.



**CHAPTER – IX**  
**SERVICES AND AMENITIES**



## BASIC FACILITIES FOR WOMEN

### About the Facility:

Basic Facilities for Women, UGC Merged Scheme was commenced on the 14<sup>th</sup> January, 2009. Under this scheme two common rooms; one for Girl Students and another for Lady Teachers of this University; are allocated by the University in the Second Floor of the Humanities Building for the purpose of refreshment and recreation. The common rooms have the following facilities –

| Item   | Numbers |
|--|---------|
| Sick bed                                       | 2       |
| First-Aid Box with necessary medicines & items | 2       |
| Carom Boards                                   | 2       |
| Chess  | 2 sets  |
| Chinese- Checker                               | 2 sets  |
| Tennis Racket with Net                         | 2 sets  |
| Colored Televisions with table                 | 2       |
| Computers with tables                          | 2       |
| Refrigerators                                  | 2       |
| Aqua-guard for drinking water                  | 1       |
| Mirrors  | 1       |
| Steel Armed Chairs                             | 40      |
| Steel Framed Tables                            | 10      |

Every working day girl students of various Departments use the Common room for refreshment and recreation. They play Carom, Chess, Chinese -Checker, Tennis etc.

One Lady Attendant engaged on contract takes care of the girl students, sick girls and also items as mentioned above.

Sometimes the Centre for Women Studies and the Department of Bengali use this room as a venue for organizing Seminar, Certificate Courses, etc.

## **CENTRE FOR DAIFFERNTLY ABLED PERSONS**

### **About the Centre:**

The Centre for Differently Abled Persons (CDAP), University of North Bengal is the only centre of its kind in the entire North Bengal region. The Centre focuses on the redressing issues of discrimination and exclusion of differently abled persons primarily students and employees of the University of North Bengal. The Centre by its activities promotes inclusion among diversities without any discrimination. In short, it is an effective platform for their career advancement as well as successfully harmonizing among themselves. This Centre is a prime example of harmony and brotherhood based on the principle of mutual respect.

The activities are monitored through personal contact programs to redress various problems and suggest ways of improvement. The motto of the Centre is to support them by providing required facilities such as computer, braille, mental support, hearing machine, awareness programmes, seminars, workshops, etc.

The goal of the Centre is capacity building among the differently abled students attending the Centre, make them skill oriented so that they can acquire abilities to read, write, hearing and so on. In short, they can express their views with dignity.

### **Contact Details:**

#### **Name and Designation**

#### **Email**

Dr. Samar Kumar Biswas

Professor, and

Coordinator, CDAP

samarkumarbiswas@nbu.ac.in

## **DAY CARE CENTRE**

Day Care Centre, North Bengal University was established in the month of June, 2008, with UGC-grant under merged scheme. The centre is now a fully equipped facility for the children of the teachers and employees of the University. Several teachers and employees have availed the facility during the last thirteen years.

Due to COVID 19 the service could be not given to the children during 2020 -2021. Presently, the centre is undergoing renovation works, and as soon the Centre is ready after renovation work, it will be opened for the service to the children.



## INTERNAL COMPLAINTS COMMITTEE

The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 is a legislative Act that seeks to protect women from sexual harassment at their place of work. Taking this into account, the North Bengal University has set up the Complaint Committee for Prevention of Sexual Harassment with the objective to uphold women's right to protection against sexual harassment and for the prevention and redressal of sexual harassment; to promote a social, physical and psychological environment that will raise awareness about and deter acts of sexual harassment of women; to organize gender sensitization programmes; and, to deal with cases of discrimination and sexual harassment against women, in a time-bound manner. The Cell was earlier known as Sexual Harassment Cell which was later renamed as Internal Complaints Committee in 2016 following the UGC Notifications.

The University is committed to ensuring women's safety, gender sensitiveness and substantive gender equality, safe campus and workplace. The University is also committed to zero tolerance in the matter of sexual harassment. The Committee is composed of a Presiding Officer along with two Teacher Members, two Non-Teaching Members and two Students' Representatives. Apart from the members there is a Convener and Joint Convener.

The present composition of the ICC is –

|  |  |
|--|--|
| Presiding Officer                              | Prof. Sushma Rohatgi, Department of Political Science, NBU   |
| Two Faculty Members                            | 1. Prof. Shilpi Ghosh, Department of Bio-technology, NBU<br>2. Dr. Zinia Mitra, Department of English, NBU         |
| Non-Teaching Employees                         | 1. Smt. Sharmistha Das, Deptt. of History, NBU<br>2. Smt. Priyanka Roy, Deptt. of Philosophy, NBU                  |
| Students (UG / PG / Research Scholar)          | 1. Smt. Sriradha Ganguli, Deptt. of Bio-technology, NBU<br>2. Smt. Shrestha Chakraborty, Deptt. of Philosophy, NBU |
| C.W.S representative as Non-Govt. Organization | Smt. Maitreyi Ghosh, Trickle Up. NBO, Kolkata  |
| Convener                                       | The Secretary, FC for P.G. Studies in Science, NBU   |
| Jt. Convener                                   | The Secretary, Under Graduate Council, NBU   |

## **REMEDIAL COACHING SCHEME**

### **Introduction:**

Remedial Coaching Scheme for Scheduled Caste and Scheduled Tribe students has been introduced by the North Bengal University during the financial year 2005- 2006 on the basis of approval of the UGC for University's proposal to start the scheme under the 10<sup>th</sup> plan guidelines for special schemes in the Universities for Scheduled Caste and Scheduled Tribe students. The Executive Council of North Bengal University, after the UGC approval decided to proceed with the programme of coaching scheme in March, 2005, with a view to enhancing the capability of Schedule Caste and Schedule Tribe students who constitute almost one- third of the total students' strength of the University.

University of North Bengal has well equipped infrastructures to provide remedial coaching to the students belonging to marginalized social groups and is not able to cope up with regular classroom teaching and not so motivated. Under the remedial coaching scheme, the university provides counselling and coaching to students at free of cost to prepare the students for Entry to Services, UGC and CSIR NET/SET examinations. The centre also provides free training and coaching to spoken English and other soft skill to its students.

### **Infrastructural Facilities:**

The coaching scheme at present has the following facilities/equipment sanctioned by the UGC and/or provided by the University:

- One photo-copiers
- Two computers
- One laser printer
- One public-address system with amplifier
- One LCD Projector with Screen
- One laptop

In addition, the Coaching Scheme also is in possession of a small library to cater the needs of the students. The library contains books on general knowledge/studies well as on specialized areas.

### **Faculty Position:**

In accordance with the UGC guidelines the scheme does allow neither permanent faculty members nor permanent support staff. The staff pattern Comprises One Coordinator (part-time), one part-time Office Assistant and one part-time Office peon. However, teachers belonging to various Departments are involved in imparting instructions and training under the coaching scheme.

**Due to the spread of COVID 19, no classes under this scheme was held in 2020 – 2021.**



**CHAPTER – X**  
**FINANCIAL REPORT**



**UNIVERSITY OF NORTH BENGAL**  
**RAJA RAMMOHANPUR, DARJEELING**  
**CONSOLIDATED BALANCE SHEET**  
**AS ON 31/03/2021**

| LIABILITIES                                | Schedule | Previous Year<br>(₹)    | Amount<br>(₹) | Current Year<br>(₹)     | ASSETS                          | Schedule | Amount<br>(₹)  | Previous Year<br>(₹)    | Amount<br>(₹)  | Current Year<br>(₹)     |
|--|----------|-------------------------|---------------|-------------------------|---------------------------------|----------|----------------|-------------------------|----------------|-------------------------|
| <b>General (Main) Fund A/c - NBU</b>       |          |                         |               |                         | <b>Fixed Assets</b>             | 8        |                | 1,671,444,729.05        |                | 1,745,037,325.45        |
| Revenue                                    |          | (66,216,274.42)         |               | (175,267,037.42)        |                                 |          |                |                         |                |                         |
| Capital                                    |          | 146,133,048.83          |               | 122,054,655.83          | <b>Capital Work-in-Progress</b> | 10       |                | 107,635,126.00          |                | 82,686,435.00           |
| <b>General (Main) Fund - NBUMC A/c</b>     |          |                         |               |                         | <b>Investment</b>               | 7        |                | 1,789,261,562.00        |                | 1,959,166,628.00        |
| Revenue                                    |          | 101,566.93              |               | 101,566.93              |                                 |          |                |                         |                |                         |
| Capital                                    |          | 840,998.02              |               | 840,998.02              |                                 |          |                |                         |                |                         |
| <b>General Reserve Fund - NBU</b>          |          | 253,434,715.67          |               | 243,145,320.23          |                                 |          |                |                         |                |                         |
| <b>Capital Assets Fund</b>                 | 9        | 1,671,444,729.05        |               | 1,745,037,325.45        | <b>Loans &amp; Advances</b>     | 2        |                | 89,868,415.64           |                | 65,394,692.64           |
| <b>Projects &amp; Schemes Fund</b>         |          |                         |               |                         |                                 |          |                |                         |                |                         |
| <b>UGC Projects Account</b>                |          |                         |               |                         |                                 |          |                |                         |                |                         |
| General                                    |          | 1,289,130.85            |               | 1,289,130.85            |                                 |          |                |                         |                |                         |
| Capital                                    |          | (42,852,351.24)         |               | (42,706,607.24)         | Cash at Bank                    | 6        | 532,978,587.12 |                         | 334,694,802.89 |                         |
| Project & Scheme                           | 3        | (3,346,632.63)          |               | (3,583,632.63)          | Treasury                        | 6        | 322,374,099.09 |                         | 397,530,262.09 |                         |
| <b>Non-UGC Projects Account</b>            |          |                         |               |                         |                                 |          |                |                         |                |                         |
| General                                    |          | 717,842.00              |               | 717,842.00              | SBI Collection A/c              |          | 559.50         |                         | 559.50         |                         |
| Projects & Schemes                         | 3        | 40,053,396.34           |               | 26,297,167.20           |                                 |          |                | 855,353,245.71          |                | 732,225,624.48          |
| <b>C.S.I.R. Account</b>                    |          |                         |               |                         |                                 |          |                |                         |                |                         |
| General                                    |          | 658,341.00              |               | 677,430.00              |                                 |          |                |                         |                |                         |
| Research Project Fund                      | 3        | (100,247.61)            |               | (121,473.61)            |                                 |          |                |                         |                |                         |
| Research Scholar Fund                      | 3        | (433,435.86)            |               | (311,768.86)            |                                 |          |                |                         |                |                         |
| <b>UGC SAP Account</b>                     |          | 199,974.00              |               | 199,974.00              |                                 |          |                |                         |                |                         |
| <b>N.S.S. Account</b>                      |          |                         |               |                         |                                 |          |                |                         |                |                         |
| General                                    |          | 5,062,478.00            |               | 5,533,076.00            |                                 |          |                |                         |                |                         |
| Projects & Schemes                         | 3        | 29,681.00               |               | 49,681.00               |                                 |          |                |                         |                |                         |
| <b>NAIP Account</b>                        |          |                         |               |                         |                                 |          |                |                         |                |                         |
| ICAR Project                               | 3        | (63,033.00)             |               | (62,755.00)             |                                 |          |                |                         |                |                         |
| <b>UGC HRDC Account</b>                    |          |                         |               |                         |                                 |          |                |                         |                |                         |
| Projects & Schemes                         | 3        | (4,970,487.50)          |               | (7,750,530.50)          |                                 |          |                |                         |                |                         |
| <b>Earmarked Fund</b>                      |          |                         |               |                         |                                 |          |                |                         |                |                         |
| <b>University Innovative Programme A/c</b> |          |                         |               |                         |                                 |          |                |                         |                |                         |
| General                                    |          | (564,184.29)            |               | (467,333.29)            |                                 |          |                |                         |                |                         |
| Projects & Programmes                      | 3        | 5,085,155.00            |               | 5,085,155.00            |                                 |          |                |                         |                |                         |
| <b>Development of Infra. Fac. Fund A/c</b> |          |                         |               |                         |                                 |          |                |                         |                |                         |
| General                                    |          | 463,219,706.99          |               | 478,711,311.49          |                                 |          |                |                         |                |                         |
| Capital                                    |          | 1,357,752.00            |               | 1,357,752.00            |                                 |          |                |                         |                |                         |
| <b>Total C/F</b>                           |          | <b>2,471,081,869.13</b> |               | <b>2,400,827,247.45</b> | <b>Total C/F</b>                |          |                | <b>4,513,563,078.40</b> |                | <b>4,584,510,705.57</b> |

| LIABILITIES                                | Schedule | Previous Year<br>(₹)    | Amount<br>(₹) | Current Year<br>(₹)     | ASSETS           | Schedule | Amount<br>(₹) | Previous Year<br>(₹)    | Amount<br>(₹) | Current Year<br>(₹)     |
|--|----------|-------------------------|---------------|-------------------------|------------------|----------|---------------|-------------------------|---------------|-------------------------|
| <b>Total B/F</b>                           |          | <b>2,471,081,869.13</b> |               | <b>2,400,827,247.45</b> | <b>Total B/F</b> |          |               | <b>4,513,563,078.40</b> |               | <b>4,584,510,705.57</b> |
| <u>Endowment Fund A/c</u>                  |          | 1,909,221.00            |               | 1,909,221.00            |                  |          |               |                         |               |                         |
| <u>Pension &amp; Gratuity Fund A/c</u>     |          | 1,000,476,931.62        |               | 1,080,811,005.62        |                  |          |               |                         |               |                         |
| <u>E.P.F Account</u>                       |          | 341,752,293.09          |               | 415,876,027.09          |                  |          |               |                         |               |                         |
| <u>SBD Fund Account</u>                    |          | 36,797,139.54           |               | 41,373,644.54           |                  |          |               |                         |               |                         |
| <b>Self Financed Courses Fund</b>          |          |                         |               |                         |                  |          |               |                         |               |                         |
| Misc. Self Financed Courses A/c            |          | 3,391,906.00            |               | 3,671,375.00            |                  |          |               |                         |               |                         |
| Jt. Self Financed Courses A/c              |          | 74,569,431.59           |               | 76,221,073.99           |                  |          |               |                         |               |                         |
| Prof N.H.C.For M.S. Courses A/c            |          | 6,748,938.00            |               | 6,940,801.00            |                  |          |               |                         |               |                         |
| D.D.E. Account                             |          | 353,332,973.29          |               | 344,362,794.74          |                  |          |               |                         |               |                         |
| <b>Other Fund</b>                          |          |                         |               |                         |                  |          |               |                         |               |                         |
| <u>CIIT DBT Account</u>                    |          | 77,358.93               |               | 79,485.93               |                  |          |               |                         |               |                         |
| <u>NBU Jalpaiguri Campus A/c</u>           |          |                         |               |                         |                  |          |               |                         |               |                         |
| General                                    |          | (1,251,379.87)          |               | (996,362.87)            |                  |          |               |                         |               |                         |
| Capital                                    |          | 28,568,480.00           |               | 28,568,480.00           |                  |          |               |                         |               |                         |
| <u>RUSA Fund Account</u>                   |          |                         |               |                         |                  |          |               |                         |               |                         |
| General                                    |          | 9,235,402.00            |               | 10,985,906.00           |                  |          |               |                         |               |                         |
| Capital                                    |          | 75,095,032.00           |               | 68,825,845.00           |                  |          |               |                         |               |                         |
| <b>Current Liabilities &amp; Provision</b> | 4        | 111,498,429.08          |               | 104,716,905.08          |                  |          |               |                         |               |                         |
| <b>Loan (Liability)</b>                    | 5        | 279,053.00              |               | 337,256.00              |                  |          |               |                         |               |                         |
|  |          | <b>4,513,563,078.40</b> |               | <b>4,584,510,705.57</b> |                  |          |               | <b>4,513,563,078.40</b> |               | <b>4,584,510,705.57</b> |

Sd/-  
(D. Basak)  
Sr. Assistant

Sd/-  
(S. Das)  
Dy Finance Officer

Sd/-  
(Dr. S. N. Saha)  
Jt. Finance Officer  
& Finance Officer (Offg.)

**UNIVERSITY OF NORTH BENGAL**  
**RAJA RAMMOHANPUR, DARJEELING**  
**CONSOLIDATED INCOME & EXPENDITURE ACCOUNT**  
**For the Period from 01/04/20 to 31/03/21**

| EXPENDITURE                                     | 2019 - 2020      |                  | 2020 - 2021      |                  | INCOME                                     | 2019 - 2020    |                  | 2020 - 2021      |                  |
|---|------------------|------------------|------------------|------------------|--|----------------|------------------|------------------|------------------|
|   | Rs.              | AMOUNT           | Rs.              | AMOUNT           |  | Rs.            | AMOUNT           | Rs.              | AMOUNT           |
| <b>To Revenue Expenditure</b>                   |                  |                  |                  |                  | <b>By Revenue Income</b>                   |                |                  |                  |                  |
| NBU General (Main) Fund                         | 1,000,277,348.43 |                  | 1,224,584,379.44 |                  | NBU General (Main) Fund                    | 870,851,625.00 |                  | 1,146,603,622.00 |                  |
| NBU C.S.I.R.                                    | -                |                  | -                |                  | NBU C.S.I.R.                               | -              |                  | 19,089.00        |                  |
| NBU N.S.S.                                      | 70,719.00        |                  | 52,465.00        |                  | NBU N.S.S.                                 | 619,315.00     |                  | 523,063.00       |                  |
| NBU UIP Fund                                    | 16,200.00        |                  | -                |                  | NBU UIP Fund                               | 273,216.00     |                  | 96,851.00        |                  |
| NBU Develop. of Infra. Fac. Fund                | -                |                  | 2,993,869.50     |                  | NBU Dev. of Infra.Fac.Fund                 | 66,374,497.00  |                  | 5,618,128.00     |                  |
| NBU Misc.Self Financed Courses                  | -                |                  | -                |                  | NBU Endowment Fund                         | 48,652.00      |                  | 207,669.00       |                  |
| NBU Jt. Self Financed Courses                   | 2,994,636.00     |                  | 4,886,348.60     |                  | NBU Pension & Gratuity Fund                | 69,374,369.00  |                  | 70,334,074.00    |                  |
| NBU Prof. N.H.C. For M.S. Courses               | -                |                  | -                |                  | NBU Misc.Self Financed Courses             | 74,218.00      |                  | 279,469.00       |                  |
| NBU DDE   | 36,776,917.00    |                  | 31,395,994.00    |                  | NBU Jt. Self Financed Courses              | 14,467,584.00  |                  | 6,537,991.00     |                  |
| NBU Endowment Fund                              | -                |                  | -                |                  | NBU Prof. N.H.C.M.S. Courses               | 212,458.00     |                  | 191,863.00       |                  |
| NBU E.P.F.                                      | -                |                  | -                |                  | NBU DDE                                    | 26,783,258.00  |                  | 24,987,229.45    |                  |
| NBU Jalpaiguri Campus                           | -                |                  | -                |                  | NBU Jalpaiguri Campus                      | 451,317.00     |                  | 255,017.00       |                  |
| NBU RUSA Fund                                   | -                |                  | -                |                  | NBU RUSA Fund                              | 2,102,049.00   |                  | 1,750,504.00     |                  |
| NBU SBD Fund                                    | 70,500.00        | 1,040,206,320.43 | 436,616.00       | 1,264,349,672.54 | NBU E.P.F.                                 | 22,418,765.00  |                  | 25,289,441.00    |                  |
|   |                  |                  |                  |                  | NBU CIIT DBT                               | 2,575.00       |                  | 2,127.00         |                  |
|   |                  |                  |                  |                  | NBU SBD Fund                               | 4,003,918.00   |                  | 3,037,121.00     |                  |
| <b>To Transferred to :</b>                      |                  |                  |                  |                  |  |                | 1,078,057,816.00 |                  | 1,285,733,258.45 |
| Capital Fund                                    | 13,212,290.00    |                  | 5,273,927.00     |                  |  |                |                  |                  |                  |
| Pension & Gratuity Fund                         | -                |                  | 10,000,000.00    |                  | <b>By Transferred from General Reserve</b> |                |                  |                  |                  |
| Sports Board Development Fund                   | -                |                  | 1,976,000.00     |                  | Fund for the Deficits on Non-Salary        |                | 55,638,555.72    |                  |                  |
| General Reserve Fund                            | -                | 13,212,290.00    | 3,820,078.56     | 21,070,005.56    | Account                                    |                |                  |                  |                  |
| <b>To Contribution to DIF Fund from</b>         |                  |                  |                  |                  |  |                |                  |                  |                  |
| NBU General Fund                                | -                |                  | 10,000,000.00    |                  |  |                |                  |                  |                  |
| NBU Misc.Self Financed Courses                  | -                |                  | -                |                  |  |                |                  |                  |                  |
| NBU Jt. Self Financed Courses                   | -                |                  | -                |                  |  |                |                  |                  |                  |
| NBU DDE   | 368,623.00       | 368,623.00       | 2,241,906.00     | 12,241,906.00    |  |                |                  |                  |                  |
| <b>To Contribution to NBU General Fund from</b> |                  |                  |                  |                  |  |                |                  |                  |                  |
| NBU Endowment Fund                              | -                |                  | 48,652.00        |                  |  |                |                  |                  |                  |
|   |                  |                  |                  |                  |  |                |                  |                  |                  |
| <b>To Net Surplus</b>                           |                  | 79,860,486.29    |                  | (12,135,994.65)  |  |                |                  |                  |                  |
|   |                  | 1,133,696,371.72 |                  | 1,285,733,258.45 |  |                | 1,133,696,371.72 |                  | 1,285,733,258.45 |

Sd/-  
(D. Basak)  
Sr. Assistant

Sd/-  
(S. Das)  
Dy Finance Officer

Sd/-  
(Dr. S. N. Saha)  
Jt. Finance Officer  
& Finance Officer (Offg.)



**UNIVERSITY OF NORTH BENGAL**  
**RAJA RAMMOHANPUR, DARJEELING**  
**CONSOLIDATED RECEIPTS & PAYMENT ACCOUNT**  
**For the year ended 31.3.2021**

| Receipts                | Schedule | Amount (₹)     | Previous Year (₹)       | Amount (₹)     | Current Year (₹)        | Payments                    | Schedule | Amount (₹)     | Previous Year (₹)       | Amount (₹) | Current Year (₹)        |
|-------------------------|----------|----------------|-------------------------|----------------|-------------------------|-----------------------------|----------|----------------|-------------------------|------------|-------------------------|
| To Opening Balance:     |          |                |                         |                |                         | By Revenue Payments         | 1        |                | 1,040,206,320.43        |            | 1,264,349,672.54        |
| Cash at Bank            | 6        | 626,253,058.15 |                         | 532,978,587.12 |                         | By Capital Payments         | 1        |                | 109,009,093.60          |            | 83,267,398.00           |
| Treasury                | 6        | 289,536,260.09 |                         | 322,374,099.09 |                         | By Loans & Advances         | 2        |                | 75,553,892.00           |            | 58,850,049.00           |
| SBI Collection A/c      |          | 559.50         | 915,789,877.74          | 559.50         | 855,353,245.71          | By Payments on Projects     | 3        |                | 28,153,136.00           |            | 31,313,139.14           |
| To Revenue Receipts     | 1        |                | 1,078,057,816.00        |                | 1,285,733,258.45        | By Investment               | 7        |                | 1,574,618,034.00        |            | 1,206,646,324.00        |
| To Capital Receipts     | 1        |                | 157,247,728.00          |                | 107,563,408.00          | By Current Liabilities      | 4        |                | 196,674,850.00          |            | 221,832,871.00          |
| To Recovery of Advances | 2        |                | 42,036,629.00           |                | 83,323,772.00           | By Loan (Liability)         | 5        |                | -                       |            | -                       |
| To Receipts on Projects | 3        |                | 41,063,652.00           |                | 14,660,586.00           | By Capital Work-In-Progress | 10       |                | -                       |            | -                       |
| To Investments          | 7        |                | 1,436,835,420.00        |                | 1,036,741,258.00        | By Closing Balance          |          |                |                         |            |                         |
| To Current Liabilities  | 4        |                | 208,537,449.00          |                | 215,051,347.00          | Cash at Bank                | 6        | 532,978,587.12 | 334,694,802.89          |            |                         |
| To Loan (Liability)     | 5        |                | -                       |                | 58,203.00               | Treasury                    | 6        | 322,374,099.09 | 397,530,262.09          |            |                         |
|                         |          |                |                         |                |                         | SBI Collection A/c          |          | 559.50         | 855,353,245.71          | 559.50     | 732,225,624.48          |
|                         |          |                | <b>3,879,568,571.74</b> |                | <b>3,598,485,078.16</b> |                             |          |                | <b>3,879,568,571.74</b> |            | <b>3,598,485,078.16</b> |

Sd/-  
(D. Basak)  
Sr. Assistant

Sd/-  
(S. Das)  
Dy Finance Officer

Sd/-  
(Dr. S. N. Saha)  
Jt. Finance Officer  
& Finance Officer (Offg.)

**CHAPTER – XI**  
**APPOINTMENTS & RETIREMENTS**



## **New Appointments:**

### **A. Teachers**

| <b>Name</b>                  | <b>Designation</b>  | <b>Department</b>              | <b>Date of Joining</b> |
|------------------------------|---------------------|--------------------------------|------------------------|
| Dr. Gangotree Ghosh (UR)     | Associate Professor | Commerce                       | 05.02.2021             |
| Dr. Prakriti Adhikary (SC)   | Assistant Professor | Physics                        | 01.02.2021             |
| Dr. Sripada Haldar (SC)      | Professor           | Physics                        | 01.02.2021             |
| Dr. Jayanta Nanda (UR)       | Assistant Professor | Chemistry                      | 10.02.2021             |
| Dr. Kiran Pradhan            | Associate Professor | Chemistry                      | 24.02.2021             |
| Dr. Kinkar Biswas            | Associate Professor | Chemistry                      | 05.03.2021             |
| Dr. Sujay Kr. Biswas (SC)    | Assistant Professor | Mathematics                    | 12.02.2021             |
| Md. Ajij                     | Assistant Professor | Computer Science & Application | 12.02.2021             |
| Dr. Sidhartha Sankar Laha    | Associate Professor | Life Long Learning & Extension | 10.02.2021             |
| Dr. Mossaraf Hossain (OBC-A) | Assistant Professor | HRDC                           | 19.08.2020             |
| Dr. Sanjib Bhattacharya (UR) | Associate Professor | HRDC                           | 02.09.2020             |
| Dr. Anjan Chakraborty        | Professor           | HRDC                           | 16.08.2020             |
| Dr. Bapi Roy Sarkar          | Associate Professor | Pharmaceutical Technology      | 19.02.2021             |
| Dr. John. J. George          | Associate Professor | Bio-Informatics                | 01.03.2021             |

### **B. Officers**

| <b>Name</b>              | <b>Designation</b>                                 | <b>Date of Joining</b> |
|--------------------------|--|------------------------|
| Sri. Lalan Kr. Choudhary | Accounts Officer, Jalpaiguri Campus                | 07.12.2020             |
| Sri. Uttam Nunia         | Superintendent, Press                              | 07.12.2020             |
| Sri. Kunal Chowdhury     | Assistant Engineer                                 | 09.12.2020             |
| Dr. Biswajit Dutta       | Asst. Controller of Examination, Jalpaiguri Campus | 10.12.2020             |

**Retirement:**

| <b>Staff Category</b> | <b>Sl. No.</b> | <b>Name and Designation</b>     | <b>Date of Retirement</b> |
|-----------------------|----------------|---------------------------------|---------------------------|
| Teacher               |                | Nil                             |                           |
| Officer               | 1              | Dr. Dilip Kr. Sarkar, Registrar | 31.01.2021                |
|                       | 1              | Krishna Chakraborty             | 30.04.2020                |
|                       | 2              | Kalimohan Barman                | 31.03.2021                |
|                       | 3              | Bhajan Sutradhar                | 31.01.2021                |
|                       | 4              | Bijoy Kr. Sarkar                | 28.02.2021                |
|                       | 5              | Sarita Chhetri                  | 31.07.2020                |
|                       | 6              | Balaram Kundu                   | 28.02.2021                |
| Non-Teaching          | 7              | Ratan Kr. Das                   | 30.11.2020                |
|                       | 8              | Bachchu Ch. Dey                 | 30.06.2020                |
|                       | 9              | Jitwan Biswakarma               | 31.03.2021                |
|                       | 10             | Kalicharan Barman               | 30.09.2020                |
|                       | 11             | Kalu Barman                     | 28.02.2021                |
|                       | 12             | Kisore Dorjee                   | 30.04.2020                |
|                       | 13             | Sunil Kr. Singha                | 31.01.2021                |

**CHAPTER – XII**  
**AFFILIATED COLLEGES**



## AFFILIATED COLLEGES

**Details of Affiliated Colleges:**

**No. of Affiliated Colleges**                                 **50**

**No. of Teachers in the Affiliated Colleges**                                 1849

|  | <i>Name of the College</i>      | <i>Teachers Strength</i> |
|--|---------------------------------|--------------------------|
|  | University B.T. Evening College | 43                       |
|  | Ananda Chandra College          | 124                      |
| <b>Constituent colleges with present Teachers strength</b> | Darjeeling Govt. College        | 112                      |
|  | St. Joseph's College            | 85                       |
|  | Siliguri College                | 99                       |
|  | Kurseong College                | 50                       |

**No. of Non-government colleges**                                 45

**B. P. Ed Colleges**   Model B. P. Ed. College

**Law Colleges**   Jalpaiguri Law College  
   Indian Institute of Legal Studies

**Total Honours Subjects run in the Affiliated Colleges**

|  |                      |      |
|--|----------------------|------|
|  | Bachelor of Arts     | : 15 |
|  | Bachelor of Science  | : 10 |
|  | Bachelor of Commerce | : 3  |

**Enrollment in Affiliated Colleges**                                 UG: 110837

  SC     : 36%

**Percentage of SC/ST/OBC Students**                                 ST     : 09%

  OBC   : 15%



**Name of Colleges Affiliated to the University of North Bengal and Teachers Strength:**

| <b>Sl. No.</b> | <b>Name of the College</b>              | <b>No. of Teachers</b> |
|----------------|---|------------------------|
| 1.             | Ananda Chandra College                  | 124                    |
| 2.             | Ananda Chandra College of Commerce      | 25                     |
| 3.             | P.D. Women's College                    | 70                     |
| 4.             | Birpara College                         | 16                     |
| 5.             | Jalapiguri Law College                  | 15                     |
| 6.             | Falakata College                        | 36                     |
| 7.             | Alipurduar College                      | 45                     |
| 8.             | Parimal Mitra Smiriti Mahaviyadalaya    | 44                     |
| 9.             | Sukanta Mahavidyalaya                   | 70                     |
| 10.            | Vivekananda College                     | 14                     |
| 11.            | Saheed Kshudiram College                | 16                     |
| 12.            | Nani Bhattacharjee Smarak Mahavidyalaya | 24                     |
| 13.            | Maynaguri College                       | 50                     |
| 14.            | North Bengal St. Xavier's College       | 41                     |
| 15.            | Alipurduar Mahila Mahavidyalaya         | 23                     |
| 16.            | Model B.P.Ed. College                   | 12                     |
| 17.            | Rajganj College                         | 26                     |
| 18.            | Samuktala Sidhu Kanhu College           | 16                     |
| 19.            | Darjeeling Govt. College                | 110                    |
| 20.            | Kalimpong College                       | 61                     |
| 21.            | Bijanbari Degree College                | 07                     |
| 22.            | Kurseong College                        | 50                     |
| 23.            | St. Joseph's College                    | 85                     |
| 24.            | Cluny Women's College                   | 35                     |
| 25.            | Southfield College                      | 38                     |
| 26.            | Siliguri College                        | 99                     |
| 27.            | Siliguri College of Commerce            | 14                     |
| 28.            | Salesian College                        | 111                    |
| 29.            | Siliguri Mahila Mahavidyalaya           | 31                     |
| 30.            | Sonada Degree College                   | 21                     |
| 31.            | Kalipada Ghosh Terai Mahavidyalaya      | 53                     |
| 32.            | Surya Sen Mahavidyalaya                 | 60                     |
| 33.            | Mirik Degree College                    | 19                     |
| 34.            | Ghoom Jorebunglow Degree College        | 28                     |
| 35.            | Gyanjyoti College                       | 25                     |

| <b>Sl. No.</b> | <b>Name of the College</b>                     | <b>No. of Teachers</b> |
|----------------|--|------------------------|
| 36.            | Nakshalbari College                            | 29                     |
| 37.            | Munshi Premchand Mahavidyalaya                 | 23                     |
| 38.            | Acharya Prafulla Chandra Roy Govt. College     | 43                     |
| 39.            | Indian Institute of Legal Studies              | 10                     |
| 40.            | University B.T. & Evening College              | 43                     |
| 41.            | Islampur College                               | 56                     |
| 42.            | Chopra kamala Paul Smriti Mahavidyalaya        | 12                     |
| 43.            | Dhupguri Girls' College                        | 15                     |
| 44.            | Lilabati Mahavidyalaya                         | 20                     |
| 45.            | Banarhat Kartik Oraon Hindi Government College | 13                     |
| 46.            | Government General Degree College, Gorubathan  | 13                     |
| 47.            | Govt. General Degree College, Pedong           | 10                     |
| 48.            | Pijush Kanti Mukherjee Mahavidyalaya           | 10                     |
| 49.            | Ghoshpukur College                             | 27                     |
| 50.            | Birsa Munda College                            | 11                     |
| <b>Total</b>   |  | <b>1849</b>            |

**Name of the Affiliated Non-Government Colleges:**

| <b>Sl. No.</b> | <b>Name of the College</b>              |
|----------------|---|
| 1.             | Ananda Chandra College                  |
| 2.             | Ananda Chandra College of Commerce      |
| 3.             | P.D. Women's College                    |
| 4.             | Birpara College                         |
| 5.             | Jalapiguri Law College                  |
| 6.             | Falakata College                        |
| 7.             | Alipurduar College                      |
| 8.             | Parimal Mitra Smiriti Mahaviydalaya     |
| 9.             | Sukanta Mahavidyalaya                   |
| 10.            | Vivekananda College                     |
| 11.            | Saheed Kshudiram College                |
| 12.            | Nani Bhattacharjee Smarak Mahavidyalaya |
| 13.            | Maynaguri College                       |
| 14.            | North Bengal St. Xavier's College       |
| 15.            | Alipurduar Mahila Mahavidyalaya         |

| <b>Sl. No.</b> | <b>Name of the College</b>              |
|----------------|---|
| 16.            | Model B.P.Ed. College                   |
| 17.            | Rajganj College                         |
| 18.            | Samuktala Sidhu Kanhu College           |
| 19.            | Kalimpong College                       |
| 20.            | Bijanbari Degree College                |
| 21.            | Kurseong College                        |
| 22.            | St. Joseph's College                    |
| 23.            | Cluny Women's College                   |
| 24.            | Southfield College                      |
| 25.            | Siliguri College                        |
| 26.            | Siliguri College of Commerce            |
| 27.            | Salesian College                        |
| 28.            | Siliguri Mahila Mahavidyalaya           |
| 29.            | Sonada Degree College                   |
| 30.            | Kalipada Ghosh Terai Mahavidyalaya      |
| 31.            | Surya Sen Mahavidyalaya                 |
| 32.            | Mirik Degree College                    |
| 33.            | Ghoom Jorebunglow Degree College        |
| 34.            | Gyanjyoti College                       |
| 35.            | Nakshalbari College                     |
| 36.            | Munshi Premchand Mahavidyalaya          |
| 37.            | Indian Institute of Legal Studies       |
| 38.            | University B.T. & Evening College       |
| 39.            | Islampur College                        |
| 40.            | Chopra kamala Paul Smriti Mahavidyalaya |
| 41.            | Dhupguri Girls' College                 |
| 42.            | Lilabati Mahavidyalaya                  |
| 43.            | Pijush Kanti Mukherjee Mahavidyalaya    |
| 44.            | Ghoshpukur College                      |
| 45.            | Birsa Munda College                     |

**CHAPTER – XIII**  
**EXAMINATION RESULTS**



**U.G. Examinations, 2020**  
**(System of Examination – Annual)**

| Sl. No. | Name of Examination | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|---------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                     | Start             | End        |                     |                            |             |
| 1.      | B.A. Part-I (H)     | 23.11.2020        | 08.12.2020 | 14.01.2021          | 166                        | 89.16       |
| 2.      | B.A. Part-I (G)     | 23.11.2020        | 08.12.2020 | 14.01.2021          | 1625                       | 78.34       |
| 3.      | B.A. Part-II (H)    | 23.11.2020        | 08.12.2020 | 14.01.2021          | 1315                       | 92.78       |
| 4.      | B.A. Part-II (G)    | 23.11.2020        | 08.12.2020 | 14.01.2021          | 3108                       | 86.23       |
| 5.      | B.A. Part-III (H)   | 01.10.2020        | 05.10.2020 | 29.10.2020          | 7797                       | 99.47       |
| 6.      | B.A. Part-III (G)   | 01.10.2020        | 06.10.2020 | 29.10.2020          | 17022                      | 94.68       |
| 7.      | B.Sc. Part-I (H)    | 23.11.2020        | 08.12.2020 | 14.01.2021          | 94                         | 96.01       |
| 8.      | B.Sc. Part-I (G)    | 23.11.2020        | 08.12.2020 | 14.01.2021          | 69                         | 92          |
| 9.      | B.Sc. Part-II (H)   | 23.11.2020        | 08.12.2020 | 14.01.2021          | 294                        | 89.12       |
| 10.     | B.Sc. Part-II (G)   | 23.11.2020        | 08.12.2020 | 14.01.2021          | 95                         | 92.63       |
| 11.     | B.Sc. Part-III (H)  | 01.10.2020        | 05.10.2020 | 29.10.2020          | 971                        | 99.90       |
| 12.     | B.Sc. Part-III (G)  | 01.10.2020        | 06.10.2020 | 29.10.2020          | 381                        | 100         |
| 13.     | B.Com. Part-I (H)   | 23.11.2020        | 08.12.2020 | 14.01.2021          | 21                         | 80.95       |
| 14.     | B.Com. Part-I (G)   | 23.11.2020        | 08.12.2020 | 14.01.2021          | 123                        | 90.24       |
| 15.     | B.Com. Part-II (H)  | 23.11.2020        | 08.12.2020 | 14.01.2021          | 197                        | 95.94       |
| 16.     | B.Com. Part-II (G)  | 23.11.2020        | 08.12.2020 | 14.01.2021          | 121                        | 91.74       |
| 17.     | B.Com. Part-III (H) | 01.10.2020        | 05.10.2020 | 29.10.2020          | 629                        | 98.89       |
| 18.     | B.Com. Part-III (G) | 01.10.2020        | 06.10.2020 | 29.10.2020          | 747                        | 98          |

H: Honours

G: General

**U.G. Examinations, 2020**  
**(System of Examination – CBCS)**

| Sl. No. | Name of Examination           | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|-------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                               | Start             | End        |                     |                            |             |
| 1.      | B.A. (H) 1 <sup>st</sup> Sem  | 16.03.2021        | 19.03.2021 | 30.04.2021          | 13304                      | 95.2        |
| 2.      | B.A. (H) 2 <sup>nd</sup> Sem  | 14.12.2020        | 19.12.2020 | 11.02.2021          | 10790                      | 94.87       |
| 3.      | B.A. (H) 3 <sup>rd</sup> Sem  | 08.03.2021        | 14.03.2021 | 30.04.2021          | 10515                      | 92.24       |
| 4.      | B.A. (H) 4 <sup>th</sup> Sem  | 14.12.2020        | 19.12.2020 | 11.02.2021          | 8402                       | 96.20       |
| 5.      | B.A. (H) 5 <sup>th</sup> Sem  | 08.03.2021        | 15.03.2021 | 30.04.2021          | 8355                       | 96.76       |
| 6.      | B.Sc. (H) 1 <sup>st</sup> Sem | 16.03.2021        | 19.03.2021 | 30.04.2021          | 1876                       | 96.43       |
| 7.      | B.Sc. (H) 2 <sup>nd</sup> Sem | 14.12.2020        | 19.12.2020 | 11.02.2021          | 1500                       | 97.53       |

| Sl. No. | Name of Examination            | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|--------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                | Start             | End        |                     |                            |             |
| 8.      | B.Sc. (H) 3 <sup>rd</sup> Sem  | 08.03.2021        | 14.03.2021 | 30.04.2021          | 1485                       | 90.51       |
| 9.      | B.Sc. (H) 4 <sup>th</sup> Sem  | 14.12.2020        | 19.12.2020 | 11.02.2021          | 1300                       | 99.23       |
| 10.     | B.Sc. (H) 5 <sup>th</sup> Sem  | 08.03.2021        | 15.03.2021 | 30.04.2021          | 1296                       | 98.77       |
| 11.     | B.Com.(H) 1 <sup>st</sup> Sem  | 16.03.2021        | 19.03.2021 | 30.04.2021          | 1395                       | 94.12       |
| 12.     | B.Com.(H)2 <sup>nd</sup> Sem   | 14.12.2020        | 19.12.2020 | 11.02.2021          | 1030                       | 93.59       |
| 13.     | B.Com.(H) 3 <sup>rd</sup> Sem  | 08.03.2021        | 14.03.2021 | 30.04.2021          | 1284                       | 95.48       |
| 14.     | B.Com.(H) 4 <sup>th</sup> Sem  | 14.12.2020        | 19.12.2020 | 11.02.2021          | 822                        | 98.42       |
| 15.     | B.Com.(H) 5 <sup>th</sup> Sem  | 08.03.2021        | 15.03.2021 | 30.04.2021          | 818                        | 96.21       |
| 16.     | B.A. (P) 1 <sup>st</sup> Sem   | 16.03.2021        | 19.03.2021 | 30.04.2021          | 43269                      | 82.71       |
| 17.     | B.A. (P) 2 <sup>nd</sup> Sem   | 14.12.2020        | 19.12.2020 | 11.02.2021          | 31490                      | 79.49       |
| 18.     | B.A. (P) 3 <sup>rd</sup> Sem   | 08.03.2021        | 14.03.2021 | 30.04.2021          | 28357                      | 81.18       |
| 19.     | B.A. (P) 4 <sup>th</sup> Sem   | 14.12.2020        | 19.12.2020 | 11.02.2021          | 17275                      | 80.74       |
| 20.     | B.A. (P) 5 <sup>th</sup> Sem   | 08.03.2021        | 15.03.2021 | 30.04.2021          | 16600                      | 76.61       |
| 21.     | B.Sc. (P) 1 <sup>st</sup> Sem  | 16.03.2021        | 19.03.2021 | 30.04.2021          | 843                        | 90.04       |
| 22.     | B.Sc. (P) 2 <sup>nd</sup> Sem  | 14.12.2020        | 19.12.2020 | 11.02.2021          | 702                        | 94.30       |
| 23.     | B.Sc. (P) 3 <sup>rd</sup> Sem  | 08.03.2021        | 14.03.2021 | 30.04.2021          | 680                        | 90.88       |
| 24.     | B.Sc. (P) 4 <sup>th</sup> Sem  | 14.12.2020        | 19.12.2020 | 11.02.2021          | 525                        | 97.52       |
| 25.     | B.Sc. (P) 5 <sup>th</sup> Sem  | 08.03.2021        | 15.03.2021 | 30.04.2021          | 523                        | 95.60       |
| 26.     | B.Com.(P) 1 <sup>st</sup> Sem  | 16.03.2021        | 19.03.2021 | 30.04.2021          | 1963                       | 81.81       |
| 27.     | B.Com.(P) 2 <sup>nd</sup> Sem  | 14.12.2020        | 19.12.2020 | 11.02.2021          | 1294                       | 80.60       |
| 28.     | B.Com. (P) 3 <sup>rd</sup> Sem | 08.03.2021        | 14.03.2021 | 30.04.2021          | 1492                       | 81.23       |
| 29.     | B.Com. (P) 4 <sup>th</sup> Sem | 14.12.2021        | 19.12.2020 | 11.02.2021          | 1001                       | 91.71       |
| 30.     | B.Com. (P) 5 <sup>th</sup> Sem | 08.03.2021        | 15.04.2021 | 30.04.2021          | 997                        | 83.85       |
| 31.     | B.P. Ed. 2 <sup>nd</sup> Sem   | 14.12.2020        | 19.12.2020 | 18.02.2021          | 40                         | 37.5        |
| 32.     | B.P. Ed. 4 <sup>th</sup> Sem   | 01.10.2020        | 04.10.2020 | 23.10.2020          | 49                         | 83          |
| 33.     | B.C.A. 1 <sup>st</sup> Sem     | 16.03.2021        | 19.03.2021 | 30.04.2021          | 238                        | 80.67       |
| 34.     | B.C.A. 2 <sup>nd</sup> Sem     | 14.12.2020        | 19.12.2020 | 11.02.2021          | 172                        | 95.93       |
| 35.     | B.C.A. 3 <sup>rd</sup> Sem     | 08.03.2021        | 14.03.2021 | 30.04.2021          | 177                        | 95.48       |
| 36.     | B.C.A. 4 <sup>th</sup> Sem     | 14.12.2020        | 19.12.2020 | 11.02.2021          | 106                        | 97.17       |
| 37.     | B.C.A. 5 <sup>th</sup> Sem     | 08.03.2021        | 15.03.2021 | 30.04.2021          | 105                        | 83.81       |
| 38.     | B.B.A. (H) 1 <sup>st</sup> Sem | 16.03.2021        | 19.03.2021 | 30.04.2021          | 266                        | 95.86       |
| 39.     | B.B.A. (H) 2 <sup>nd</sup> Sem | 14.12.2020        | 19.12.2020 | 11.02.2021          | 257                        | 94.16       |
| 40.     | B.B.A. (H) 3 <sup>rd</sup> Sem | 08.03.2021        | 14.03.2021 | 30.04.2021          | 271                        | 94.10       |
| 41.     | B.B.A. (H) 4 <sup>th</sup> Sem | 14.12.2020        | 19.12.2020 | 11.02.2021          | 192                        | 98.44       |
| 42.     | B.B.A. (H) 5 <sup>th</sup> Sem | 08.03.2021        | 15.03.2021 | 30.04.2021          | 192                        | 97.40       |
| 43.     | B.B.A. (P) 1 <sup>st</sup> Sem | 16.03.2021        | 19.03.2021 | 30.04.2021          | 57                         | 94.74       |

| Sl. No. | Name of Examination            | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|--------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                | Start             | End        |                     |                            |             |
| 44.     | B.B.A. (P) 2 <sup>nd</sup> Sem | 14.12.2020        | 19.12.2020 | 11.02.2021          | 44                         | 100         |
| 45.     | B.B.A. (P) 3 <sup>rd</sup> Sem | 18.03.2021        | 19.03.2021 | 30.04.2021          | 51                         | 100         |
| 46.     | B.B.A. (P) 4 <sup>th</sup> Sem | 14.12.2021        | 19.12.2021 | 11.02.2021          | 40                         | 100         |
| 47.     | B.B.A. (P) 5 <sup>th</sup> Sem | 08.03.2021        | 15.03.2021 | 30.04.2021          | 40                         | 100         |
| 48.     | BLIS 1 <sup>st</sup> Sem       | 22.03.2021        | 01.04.2021 | 28.07.2021          | 58                         | 100         |
| 49.     | BLIS 2 <sup>nd</sup> Sem       | 07.07.2021        | 20.07.2021 | 01.09.2021          | 51                         | 100         |

P: Programme

**U.G. Examinations, 2020**  
[System of Examination – CBCS (under D.E. Mode)]

| Sl. No. | Name of Examination            | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|--------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                | Start             | End        |                     |                            |             |
| 01.     | B.A. (P) 1 <sup>st</sup> Sem   | 18.03.2020        | 23.03.2020 | 31.12.2020          | 23                         | 100         |
| 02.     | B.A. (P) 2 <sup>nd</sup> Sem   | 18.01.2021        | 28.01.2021 | 24.03.2021          | 17                         | 100         |
| 03.     | B.A. (P) 3 <sup>rd</sup> Sem   | 28.10.2020        | 02.11.2020 | 12.11.2020          | 13                         | 100         |
| 04.     | B.A. (P) 4 <sup>th</sup> Sem   | 05.02.2021        | 13.02.2021 | 24.03.2021          | 13                         | 100         |
| 05.     | B.Com.(P) 1 <sup>st</sup> Sem  | 18.03.2020        | 23.03.2020 | 31.12.2020          | 01                         | 100         |
| 06.     | B.Com.(P) 2 <sup>nd</sup> Sem  | 18.01.2021        | 28.01.2021 | 24.03.2021          | 02                         | 100         |
| 07.     | B.Com. (P) 3 <sup>rd</sup> Sem | 28.10.2020        | 02.11.2020 | 12.11.2020          | 01                         | 100         |
| 08.     | B.Com. (P) 4 <sup>th</sup> Sem | 05.02.2021        | 13.02.2021 | 24.03.2021          | 01                         | 100         |

**U.G. Examinations, 2020**  
(System of Examination – CBCS)

| Sl. No. | Name of Examination              | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|----------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                  | Start             | End        |                     |                            |             |
| 01.     | B.A.LL.B.(H) 1 <sup>st</sup> Sem | 09.03.2021        | 14.03.2021 | 21.04.2021          | 297                        | 99.3        |
| 02.     | B.A.LL.B.(H) 2 <sup>nd</sup> Sem | 08.12.2020        | 24.12.2020 | 14.01.2021          | 226                        | 100         |
| 03.     | B.A.LL.B.(H) 3 <sup>rd</sup> Sem | 15.03.2021        | 20.03.2021 | 21.04.2021          | 217                        | 100         |



| Sl. No. | Name of Examination                 | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|-------------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                     | Start             | End        |                     |                            |             |
| 04.     | B.A.LL.B.(H) 4 <sup>th</sup> Sem    | 07.12.2020        | 23.12.2020 | 14.01.2021          | 182                        | 100         |
| 05.     | B.A.LL.B.(H) 5 <sup>th</sup> Sem    | 09.03.2021        | 14.03.2021 | 21.04.2021          | 182                        | 100         |
| 06.     | B.A.LL.B.(H) 6 <sup>th</sup> Sem    | 09.12.2020        | 26.12.2020 | 14.01.2021          | 82                         | 100         |
| 07.     | B.A.LL.B.(H) 7 <sup>th</sup> Sem    | 15.03.2021        | 19.03.2021 | 21.04.2021          | 82                         | 100         |
| 11.     | BBA.LL.B.(H) 1 <sup>st</sup> Sem    | 09.03.2021        | 14.03.2021 | 21.04.2021          | 33                         | 100         |
| 12.     | BBA.LL.B.(H) 2 <sup>nd</sup> Sem    | 08.12.2020        | 24.12.2020 | 14.01.2021          | 41                         | 97.56       |
| 13.     | BBA.LL.B.(H) 3 <sup>rd</sup> Sem    | 15.03.2021        | 20.03.2021 | 21.04.2021          | 36                         | 100         |
| 14.     | BBA.LL.B.(H) 4 <sup>th</sup> Sem    | 07.12.2020        | 23.12.2020 | 14.01.2021          | 34                         | 100         |
| 15.     | BBA.LL.B.(H) 5 <sup>th</sup> Sem    | 09.03.2021        | 14.03.2021 | 21.04.2021          | 33                         | 100         |
| 21.     | B.Com. LL.B.(H) 1 <sup>st</sup> Sem | 09.03.2021        | 14.03.2021 | 21.04.2021          | 39                         | 100         |
| 22.     | B.Com. LL.B.(H) 2 <sup>nd</sup> Sem | 08.12.2020        | 24.12.2020 | 14.01.2021          | 35                         | 100         |
| 23.     | B.Com. LL.B.(H) 3 <sup>rd</sup> Sem | 15.03.2021        | 20.03.2021 | 21.04.2021          | 35                         | 97.14       |
| 24.     | B.Com. LL.B.(H) 4 <sup>th</sup> Sem | 07.12.2020        | 23.12.2020 | 14.01.2021          | 13                         | 100         |
| 25.     | B.Com. LL.B.(H) 5 <sup>th</sup> Sem | 09.03.2021        | 14.03.2021 | 21.04.2021          | 12                         | 100         |
| 31.     | B.A.LL.B.(G) 1 <sup>st</sup> Sem    | 09.03.2021        | 14.03.2021 | 21.04.2021          | 125                        | 100         |
| 32.     | B.A.LL.B.(G) 2 <sup>nd</sup> Sem    | 08.12.2020        | 21.12.2020 | 14.01.2021          | 84                         | 100         |
| 33.     | B.A.LL.B.(G) 3 <sup>rd</sup> Sem    | 15.03.2021        | 20.03.2021 | 21.04.2021          | 83                         | 100         |
| 34.     | B.A.LL.B.(G) 4 <sup>th</sup> Sem    | 07.12.2020        | 17.12.2020 | 14.01.2021          | 56                         | 100         |
| 35.     | B.A.LL.B.(G) 5 <sup>th</sup> Sem    | 09.03.2021        | 12.03.2021 | 21.04.2021          | 56                         | 100         |
| 41.     | LL.B. (3 yrs.) 1 <sup>st</sup> Sem  | 09.03.2021        | 14.03.2021 | 21.04.2021          | 97                         | 98.97       |
| 42.     | LL.B. (3 yrs.) 2 <sup>nd</sup> Sem  | 08.12.2020        | 21.12.2020 | 14.01.2021          | 72                         | 100         |
| 43.     | LL.B. (3 yrs.) 3 <sup>rd</sup> Sem  | 15.03.2021        | 18.03.2021 | 21.04.2021          | 72                         | 100         |
| 44.     | LL.B. (3 yrs.) 4 <sup>th</sup> Sem  | 07.12.2020        | 17.12.2020 | 14.01.2021          | 78                         | 100         |
| 45.     | LL.B. (3 yrs.) 5 <sup>th</sup> Sem  | 09.03.2021        | 12.03.2021 | 21.04.2021          | 76                         | 100         |

**U.G. Examinations, 2020**  
**(System of Examination – Non-CBCS)**

| Sl. No. | Name of Examination               | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|-----------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                   | Start             | End        |                     |                            |             |
| 01.     | B.A.LL.B.(H) 1 <sup>st</sup> Sem  | 09.03.2021        | 14.03.2021 | 21.04.2021          | -                          | -           |
| 02.     | B.A.LL.B.(H) 2 <sup>nd</sup> Sem  | 08.12.2020        | 24.12.2020 | 14.01.2021          | 12                         | 100         |
| 03.     | B.A.LL.B.(H) 3 <sup>rd</sup> Sem  | 15.03.2021        | 20.03.2021 | 21.04.2021          | -                          | -           |
| 04.     | B.A.LL.B.(H) 4 <sup>th</sup> Sem  | 07.12.2020        | 23.12.2020 | 14.01.2021          | 3                          | 100         |
| 05.     | B.A.LL.B.(H) 5 <sup>th</sup> Sem  | 09.03.2021        | 13.03.2021 | 21.04.2021          | 1                          | 100         |
| 06.     | B.A.LL.B.(H) 6 <sup>th</sup> Sem  | 09.12.2020        | 19.12.2020 | 14.01.2021          | 20                         | 95          |
| 07.     | B.A.LL.B.(H) 7 <sup>th</sup> Sem  | 15.03.2021        | 19.03.2021 | 21.04.2021          | 18                         | 100         |
| 08.     | B.A.LL.B.(H) 8 <sup>th</sup> Sem  | 08.12.2020        | 18.12.2020 | 14.01.2021          | 73                         | 100         |
| 09.     | B.A.LL.B.(H) 9 <sup>th</sup> Sem  | 09.03.2021        | 12.03.2021 | 21.04.2021          | 73                         | 100         |
| 10.     | B.A.LL.B.(H) 10 <sup>th</sup> Sem | 01.10.2020        | 04.10.2020 | 14.10.2020          | 65                         | 100         |
| 11.     | BBA.LL.B. 1 <sup>st</sup> Sem     | 09.03.2021        | 14.03.2021 | 21.04.2021          | -                          | -           |
| 12.     | BBA.LL.B. 2 <sup>nd</sup> Sem     | 08.12.2020        | 21.12.2020 | 14.01.2021          | -                          | -           |
| 13.     | BBA.LL.B. 3 <sup>rd</sup> Sem     | 15.03.2021        | 20.03.2021 | 21.04.2021          | -                          | -           |
| 14.     | BBA.LL.B. 4 <sup>th</sup> Sem     | 07.12.2020        | 20.12.2020 | 14.01.2021          | 2                          | 100         |
| 15.     | BBA.LL.B. 5 <sup>th</sup> Sem     | 09.03.2021        | 13.03.2021 | 21.04.2021          | 1                          | 100         |
| 16.     | BBA.LL.B. 6 <sup>th</sup> Sem     | 09.12.2020        | 19.12.2020 | 14.01.2021          | 29                         | 100         |
| 17.     | BBA.LL.B. 7 <sup>th</sup> Sem     | 15.03.2021        | 17.03.2021 | 21.04.2021          | 29                         | 100         |
| 18.     | BBA.LL.B. 8 <sup>th</sup> Sem     | 08.12.2020        | 15.12.2020 | 14.01.2021          | 25                         | 100         |
| 19.     | BBA.LL.B. 9 <sup>th</sup> Sem     | 09.03.2021        | 11.03.2021 | 21.04.2021          | 25                         | 100         |
| 20.     | BBA.LL.B. 10 <sup>th</sup> Sem    | 01.10.2020        | 04.10.2020 | 14.10.2020          | 34                         | 100         |
| 21.     | B.Com. LL.B. 1 <sup>st</sup> Sem  | 09.03.2021        | 14.03.2021 | 21.04.2021          | -                          | -           |
| 22.     | B.Com. LL.B. 2 <sup>nd</sup> Sem  | 08.12.2020        | 21.12.2020 | 14.01.2021          | -                          | -           |
| 23.     | B.Com. LL.B. 3 <sup>rd</sup> Sem  | 15.03.2021        | 20.03.2021 | 21.04.2021          | -                          | -           |
| 24.     | B.Com. LL.B. 4 <sup>th</sup> Sem  | 07.12.2020        | 20.12.2020 | 14.01.2021          | 2                          | 100         |
| 25.     | B.Com. LL.B. 5 <sup>th</sup> Sem  | 09.03.2021        | 13.03.2021 | 21.04.2021          | -                          | -           |
| 26.     | B.Com. LL.B. 6 <sup>th</sup> Sem  | 09.12.2020        | 19.12.2020 | 14.01.2021          | 32                         | 100         |
| 27.     | B.Com. LL.B. 7 <sup>th</sup> Sem  | 15.03.2021        | 17.03.2021 | 21.04.2021          | 32                         | 100         |
| 28.     | B.Com. LL.B. 8 <sup>th</sup> Sem  | 08.12.2020        | 15.12.2020 | 14.01.2021          | 25                         | 100         |
| 29.     | B.Com. LL.B. 9 <sup>th</sup> Sem  | 09.03.2021        | 11.03.2021 | 21.04.2021          | 25                         | 100         |
| 30.     | B.Com. LL.B. 10 <sup>th</sup> Sem | 01.10.2020        | 04.10.2020 | 14.10.2020          | 24                         | 100         |
| 31.     | B.A.LL.B.(G) 1 <sup>st</sup> Sem  | 09.03.2021        | 14.03.2021 | 21.04.2021          | 1                          | 100         |

| Sl. No. | Name of Examination                | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|------------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                    | Start             | End        |                     |                            |             |
| 32.     | B.A.LL.B.(G) 2 <sup>nd</sup> Sem   | 08.12.2020        | 21.12.2020 | 14.01.2021          | 12                         | 100         |
| 33.     | B.A.LL.B.(G) 3 <sup>rd</sup> Sem   | 15.03.2021        | 20.03.2021 | 21.04.2021          | 10                         | 100         |
| 34.     | B.A.LL.B.(G) 4 <sup>th</sup> Sem   | 07.12.2020        | 20.12.2020 | 14.01.2021          | 32                         | 100         |
| 35.     | B.A.LL.B.(G) 5 <sup>th</sup> Sem   | 09.03.2021        | 13.03.2021 | 21.04.2021          | 27                         | 100         |
| 36.     | B.A.LL.B.(G) 6 <sup>th</sup> Sem   | 09.12.2020        | 19.12.2020 | 14.01.2021          | 184                        | 100         |
| 37.     | B.A.LL.B.(G) 7 <sup>th</sup> Sem   | 15.03.2021        | 17.03.2021 | 21.04.2021          | 185                        | 100         |
| 38.     | B.A.LL.B.(G) 8 <sup>th</sup> Sem   | 08.12.2020        | 15.12.2020 | 14.01.2021          | 153                        | 100         |
| 39.     | B.A.LL.B.(G) 9 <sup>th</sup> Sem   | 09.03.2021        | 11.03.2021 | 21.04.2021          | 153                        | 100         |
| 40.     | B.A.LL.B.(G) 10 <sup>th</sup> Sem  | 01.10.2020        | 04.10.2020 | 14.10.2020          | 159                        | 100         |
| 41.     | LL.B. (3 yrs.) 1 <sup>st</sup> Sem | 09.03.2021        | 14.03.2021 | 21.04.2021          | -                          | -           |
| 42.     | LL.B. (3 yrs.) 2 <sup>nd</sup> Sem | 08.12.2020        | 24.12.2020 | 14.01.2021          | -                          | -           |
| 43.     | LL.B. (3 yrs.) 3 <sup>rd</sup> Sem | 15.03.2021        | 18.03.2021 | 21.04.2021          | -                          | -           |
| 44.     | LL.B. (3 yrs.) 4 <sup>th</sup> Sem | 07.12.2020        | 17.12.2020 | 14.01.2021          | 6                          | 83.33       |
| 45.     | LL.B. (3 yrs.) 5 <sup>th</sup> Sem | 09.03.2021        | 12.03.2021 | 21.04.2021          | 5                          | 100         |
| 46.     | LL.B. (3 yrs.) 6 <sup>th</sup> Sem | 01.10.2020        | 04.10.2020 | 14.10.2020          | 61                         | 98.36       |

**P.G. Examinations, 2020**  
(System of Examination – CBCS)

| Sl. No. | Name of Examination               | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|-----------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                   | Start             | End        |                     |                            |             |
| 01.     | Anthropology 1 <sup>st</sup> Sem  | 22.03.2021        | 31.03.2021 | 28.06.2021          | 12                         | 100         |
| 02.     | Anthropology 2 <sup>nd</sup> Sem  | 15.12.2020        | 18.12.2020 | 12.08.2021          | 11                         | 100         |
| 03.     | Anthropology 3 <sup>rd</sup> Sem  | 22.02.2021        | 01.03.2021 | 23.03.2021          | 13                         | 100         |
| 04.     | Anthropology 4 <sup>th</sup> Sem  | 01.10.2020        | 04.10.2020 | 12.08.2021          | 13                         | 92.30       |
| 05.     | Bengali 1 <sup>st</sup> Sem       | 22.03.2021        | 28.03.2021 | 08.07.2021          | 205                        | 100         |
| 06.     | Bengali 2 <sup>nd</sup> Sem       | 15.12.2020        | 22.12.2020 | 25.08.2021          | 204                        | 100         |
| 07.     | Bengali 3 <sup>rd</sup> Sem       | 22.02.2021        | 05.03.2021 | 13.05.2021          | 159                        | 100         |
| 08.     | Bengali 4 <sup>th</sup> Sem       | 01.10.2020        | 06.10.2020 | 25.08.2021          | 159                        | 100         |
| 09.     | Biotechnology 1 <sup>st</sup> Sem | 22.03.2021        | 29.03.2021 | 04.05.2021          | 09                         | 100         |
| 10.     | Biotech 2 <sup>nd</sup> Sem       | 15.12.2020        | 21.12.2020 | 17.08.2021          | 08                         | 100         |
| 11.     | Biotech 3 <sup>rd</sup> Sem       | 22.02.2021        | 26.02.2021 | 16.04.2021          | 06                         | 100         |

| Sl. No. | Name of Examination                               | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|---|-------------------|------------|---------------------|----------------------------|-------------|
|         |   | Start             | End        |                     |                            |             |
| 12.     | Biotech 4 <sup>th</sup> Sem                       | 05.10.2020        | 05.10.2020 | 17.08.2021          | 06                         | 100         |
| 13.     | Botany (DGC) 1 <sup>st</sup> Sem                  | 06.01.2021        | 11.01.2021 | 18.08.2021          | 26                         | 100         |
| 15.     | Botany (DGC) 3 <sup>rd</sup> Sem                  | 06.01.2021        | 11.01.2021 | 18.08.2021          | 14                         | 100         |
| 17.     | Botany (NBU) 1 <sup>st</sup> Sem                  | 22.03.2021        | 25.03.2021 | 21.04.2021          | 47                         | 100         |
| 18.     | Botany (NBU) 2 <sup>nd</sup> Sem                  | 15.12.2020        | 21.12.2020 | 10.08.2021          | 40                         | 100         |
| 19.     | Botany (NBU) 3 <sup>rd</sup> Sem                  | 22.02.2021        | 02.03.2021 | 16.03.2021          | 38                         | 100         |
| 20.     | Botany (NBU) 4 <sup>th</sup> Sem                  | 01.10.2020        | 04.10.2020 | 10.08.2021          | 38                         | 100         |
| 21.     | Chemistry 1 <sup>st</sup> Sem                     | 22.03.2021        | 30.03.2021 | 25.06.2021          | 59                         | 100         |
| 22.     | Chemistry 2 <sup>nd</sup> Sem                     | 15.12.2020        | 21.12.2020 | 25.08.2021          | 53                         | 100         |
| 23.     | Chemistry 3 <sup>rd</sup> Sem                     | 22.02.2021        | 28.02.2021 | 30.04.2021          | 56                         | 100         |
| 24.     | Chemistry 4 <sup>th</sup> Sem                     | 03.10.2020        | 04.10.2020 | 25.08.2021          | 56                         | 100         |
| 25.     | Commerce 1 <sup>st</sup> Sem                      | 22.03.2021        | 02.04.2021 | 28.06.2021          | 104                        | 100         |
| 26.     | Commerce 2 <sup>nd</sup> Sem                      | 15.02.2020        | 31.12.2020 | 10.09.2021          | 73                         | 100         |
| 27.     | Commerce 3 <sup>rd</sup> Sem                      | 22.02.2021        | 03.03.2021 | 26.04.2021          | 46                         | 100         |
| 28.     | Commerce 4 <sup>th</sup> Sem                      | 01.10.2020        | 08.10.2020 | 10.09.2021          | 45                         | 100         |
| 29.     | Computer Sc 1 <sup>st</sup> Sem                   | 22.03.2021        | 01.04.2021 | 09.07.2021          | 15                         | 100         |
| 30.     | Computer Sc 2 <sup>nd</sup> Sem                   | 15.12.2020        | 28.12.2020 | 03.12.2021          | 15                         | 100         |
| 31.     | Computer Sc 3 <sup>rd</sup> Sem                   | 22.02.2021        | 01.03.2021 | 30.04.2021          | 12                         | 100         |
| 32.     | Computer Sc 4 <sup>th</sup> Sem                   | 01.10.2020        | 02.10.2020 | 23.09.2021          | 12                         | 91.66       |
| 33.     | Economics 1 <sup>st</sup> Sem                     | 22.03.2021        | 02.04.2021 | 22.04.2021          | 36                         | 100         |
| 34.     | Economics 2 <sup>nd</sup> Sem                     | 15.12.2020        | 31.12.2020 | 16.08.2021          | 31                         | 100         |
| 35.     | Economics 3 <sup>rd</sup> Sem                     | 22.02.2021        | 04.03.2021 | 24.03.2021          | 21                         | 100         |
| 36.     | Economics 4 <sup>th</sup> Sem                     | 01.10.2020        | 08.10.2020 | 16.08.2021          | 20                         | 100         |
| 37.     | English 1 <sup>st</sup> Sem                       | 22.03.2021        | 27.03.2021 | 13.05.2021          | 215                        | 100         |
| 38.     | English 2 <sup>nd</sup> Sem                       | 15.12.2020        | 26.12.2020 | 23.08.2021          | 196                        | 100         |
| 39.     | English 3 <sup>rd</sup> Sem                       | 22.02.2021        | 01.03.2021 | 04.05.2021          | 168                        | 100         |
| 40.     | English 4 <sup>th</sup> Sem                       | 03.10.2020        | 07.10.2020 | 23.08.2021          | 167                        | 98.20       |
| 41.     | Geography & Applied Geography 1 <sup>st</sup> Sem | 22.03.2021        | 25.03.2021 | 22.04.2021          | 100                        | 100         |
| 42.     | Geography & Applied Geography 2 <sup>nd</sup> Sem | 15.12.2020        | 18.12.2020 | 10.08.2021          | 98                         | 100         |

| Sl. No. | Name of Examination                               | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|---|-------------------|------------|---------------------|----------------------------|-------------|
|         |   | Start             | End        |                     |                            |             |
| 43.     | Geography & Applied Geography 3 <sup>rd</sup> Sem | 22.02.2021        | 25.02.2021 | 23.03.2021          | 89                         | 100         |
| 44.     | Geography & Applied Geography 4 <sup>th</sup> Sem | 01.10.2020        | 04.10.2020 | 10.08.2021          | 89                         | 97.75       |
| 45.     | Hindi 1 <sup>st</sup> Sem                         | 22.03.2021        | 30.03.2021 | 26.04.2021          | 35                         | 100         |
| 46.     | Hindi 2 <sup>nd</sup> Sem                         | 15.12.2020        | 22.12.2020 | 16.08.2021          | 35                         | 100         |
| 47.     | Hindi 3 <sup>rd</sup> Sem                         | 22.02.2021        | 01.03.2021 | 23.03.2021          | 36                         | 100         |
| 2248.   | Hindi 4 <sup>th</sup> Sem                         | 01.10.2020        | 03.10.2020 | 16.08.2021          | 36                         | 100         |
| 49.     | History 1 <sup>st</sup> Sem                       | 22.03.2021        | 01.04.2021 | 30.04.2021          | 94                         | 100         |
| 50.     | History 2 <sup>nd</sup> Sem                       | 15.12.2020        | 31.12.2020 | 23.08.2021          | 87                         | 100         |
| 51.     | History 3 <sup>rd</sup> Sem                       | 22.02.2021        | 02.03.2021 | 22.04.2021          | 79                         | 100         |
| 52.     | History 4 <sup>th</sup> Sem                       | 01.10.2020        | 06.10.2020 | 23.08.2021          | 79                         | 98.73       |
| 53.     | LL.M. 1 <sup>st</sup> Sem                         | 22.03.2021        | 02.04.2021 | 26.07.2021          | 52                         | 100         |
| 54.     | LL.M. 2 <sup>nd</sup> Sem                         | 15.12.2020        | 30.12.2020 | 20.09.2021          | 49                         | 100         |
| 55.     | LL.M. 3 <sup>rd</sup> Sem                         | 22.02.2021        | 05.03.2021 | 26.03.2021          | 17                         | 100         |
| 56.     | LL.M. 4 <sup>th</sup> Sem                         | 01.10.2020        | 03.10.2020 | 08.10.2021          | 17                         | 64.70       |
| 58.     | M.B.A. 2 <sup>nd</sup> Sem                        | 15.12.2020        | 24.12.2020 | -                   | 45                         | -           |
| 59.     | M.B.A. 3 <sup>rd</sup> Sem                        | 22.02.2021        | 03.03.2021 | -                   | 31                         | -           |
| 61.     | M.C.A. 1 <sup>st</sup> Sem                        | 20.01.2020        | 05.02.2020 | 10.09.2020          | 28                         | 100         |
| 62.     | M.C.A. 2 <sup>nd</sup> Sem                        | 15.12.2020        | 28.12.2020 | 23.02.2021          | 23                         | 100         |
| 63.     | M.C.A. 3 <sup>rd</sup> Sem                        | 22.02.2021        | 01.03.2021 | 15.07.2021          | 25                         | 100         |
| 64.     | M.C.A. 4 <sup>th</sup> Sem                        | 15.12.2020        | 28.12.2020 | 23.02.2021          | 25                         | 100         |
| 65.     | M.C.A. 5 <sup>th</sup> Sem                        | 22.02.2021        | 01.03.2021 | 29.06.2021          | 14                         | 100         |
| 66.     | M.C.A. 6 <sup>th</sup> Sem                        | 07.10.2020        | 09.10.2020 | 21.10.2020          | 16                         | 100         |
| 67.     | M.L.I.S. 1 <sup>st</sup> Sem                      | 26.03.2021        | 08.04.2021 | 19.07.2021          | 51                         | 100         |
| 68.     | M.L.I.S. 2 <sup>nd</sup> Sem                      | 09.08.2021        | 20.08.2021 | 21.09.2021          | 50                         | 100         |
| 69.     | M.L.I.S. 3 <sup>rd</sup> Sem                      | 25.02.2021        | 10.03.2021 | 28.04.2021          | 38                         | 97.37       |
| 70.     | M.L.I.S. 4 <sup>th</sup> Sem                      | 07.07.2021        | 28.07.2021 | 08.09.2021          | 36                         | 100         |
| 71.     | Mass Comm. 1 <sup>st</sup> Sem                    | 22.03.2021        | 02.04.2021 | 27.04.2021          | 48                         | 100         |
| 72.     | Mass Comm. 2 <sup>nd</sup> Sem                    | 15.12.2020        | 30.12.2020 | 18.08.2021          | 37                         | 100         |
| 73.     | Mass Comm. 3 <sup>rd</sup> Sem                    | 22.02.2021        | 04.03.2021 | 13.04.2021          | 22                         | 100         |
| 74.     | Mass Comm. 4 <sup>th</sup> Sem                    | 01.10.2020        | 07.10.2020 | 18.08.2021          | 22                         | 100         |
| 75.     | Mathematics 1 <sup>st</sup> Sem                   | 22.03.2021        | 01.04.2021 | 06.09.2021          | 114                        | 100         |
| 76.     | Mathematics 2 <sup>nd</sup> Sem                   | 15.12.2020        | 23.12.2020 | 26.08.2021          | 56                         | 100         |

| Sl. No. | Name of Examination                   | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|---------------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                       | Start             | End        |                     |                            |             |
| 77.     | Mathematics 3 <sup>rd</sup> Sem       | 22.02.2021        | 03.03.2021 | 07.04.2021          | 59                         | 100         |
| 78.     | Mathematics 4 <sup>th</sup> Sem       | 01.10.2020        | 05.10.2020 | 07.09.2021          | 59                         | 98.30       |
| 79.     | Microbiology 1 <sup>st</sup> Sem      | 22.03.2021        | 26.03.2021 | 25.06.2021          | 29                         | 100         |
| 80.     | Microbiology 2 <sup>nd</sup> Sem      | 15.12.2020        | 19.12.2020 | 18.08.2021          | 21                         | 100         |
| 81.     | Microbiology 3 <sup>rd</sup> Sem      | 22.02.2021        | 26.02.2021 | 24.03.2021          | 27                         | 100         |
| 82.     | Microbiology 4 <sup>th</sup> Sem      | 01.10.2020        | 06.10.2020 | 18.08.2021          | 27                         | 100         |
| 83.     | Nepali 1 <sup>st</sup> Sem            | 22.03.2021        | 01.04.2021 | 05.07.2021          | 122                        | 100         |
| 84.     | Nepali 2 <sup>nd</sup> Sem            | 15.12.2020        | 28.12.2020 | 08.09.2021          | 97                         | 100         |
| 85.     | Nepali 3 <sup>rd</sup> Sem            | 22.02.2021        | 04.03.2021 | 30.04.2021          | 77                         | 100         |
| 86.     | Nepali 4 <sup>th</sup> Sem            | 01.10.2020        | 04.10.2020 | 08.09.2021          | 79                         | 97.46       |
| 87.     | Philosophy 1 <sup>st</sup> Sem        | 22.03.2021        | 31.03.2021 | 11.05.2021          | 87                         | 100         |
| 88.     | Philosophy 2 <sup>nd</sup> Sem        | 15.12.2020        | 24.12.2020 | 23.08.2021          | 67                         | 100         |
| 89.     | Philosophy 3 <sup>rd</sup> Sem        | 22.02.2021        | 01.03.2021 | 26.04.2021          | 65                         | 100         |
| 90.     | Philosophy 4 <sup>th</sup> Sem        | 01.10.2020        | 08.10.2020 | 23.08.2021          | 65                         | 100         |
| 91.     | Physics 1 <sup>st</sup> Sem           | 22.03.2021        | 25.03.2021 | 06.07.2021          | 58                         | 100         |
| 92.     | Physics 2 <sup>nd</sup> Sem           | 15.12.2020        | 19.12.2020 | 10.02.2021          | 41                         | 100         |
| 93.     | Physics 3 <sup>rd</sup> Sem           | 22.02.2021        | 25.02.2021 | 26.04.2021          | 47                         | 100         |
| 94.     | Physics 4 <sup>th</sup> Sem           | 01.10.2020        | 07.10.2020 | 10.02.2021          | 47                         | 100         |
| 95.     | Pol. Science 1 <sup>st</sup> Sem      | 22.03.2021        | 27.03.2021 | 23.06.2021          | 96                         | 100         |
| 96.     | Pol. Science 2 <sup>nd</sup> Sem      | 15.12.2020        | 19.12.2020 | 25.08.2021          | 73                         | 100         |
| 97.     | Pol. Science 3 <sup>rd</sup> Sem      | 22.02.2021        | 27.02.2021 | 11.05.2021          | 73                         | 100         |
| 98.     | Pol. Science 4 <sup>th</sup> Sem      | 01.10.2020        | 07.10.2020 | 25.08.2021          | 73                         | 100         |
| 99.     | Rural Development 1 <sup>st</sup> Sem | 22.03.2021        | 01.04.2021 | 06.05.2021          | 30                         | 100         |
| 100.    | Rural Development 2 <sup>nd</sup> Sem | 15.12.2020        | 22.12.2020 | 10.08.2021          | 28                         | 100         |
| 101.    | Rural Development 3 <sup>rd</sup> Sem | 22.02.2021        | 04.03.2021 | 24.03.2021          | 09                         | 100         |

| Sl. No. | Name of Examination                        | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|--|-------------------|------------|---------------------|----------------------------|-------------|
|         |  | Start             | End        |                     |                            |             |
| 102.    | Rural Development 4 <sup>th</sup> Sem      | 01.10.2020        | 05.10.2020 | 10.08.2021          | 09                         | 100         |
| 103.    | Sanskrit 1 <sup>st</sup> Sem               | 22.03.2021        | 30.03.2021 | 28.06.2021          | 37                         | 100         |
| 104.    | Sanskrit 2 <sup>nd</sup> Sem               | 15.12.2020        | 23.12.2020 | 19.08.2021          | 37                         | 100         |
| 105.    | Sanskrit 3 <sup>rd</sup> Sem               | 22.02.2021        | 03.03.2021 | 06.04.2021          | 44                         | 100         |
| 106.    | Sanskrit 4 <sup>th</sup> Sem               | 01.10.2020        | 06.10.2020 | 19.08.2021          | 44                         | 100         |
| 107.    | Sociology 1 <sup>st</sup> Sem              | 22.03.2021        | 01.04.2021 | 30.04.2021          | 53                         | 100         |
| 108.    | Sociology 2 <sup>nd</sup> Sem              | 15.12.2020        | 31.12.2020 | 17.08.2021          | 41                         | 100         |
| 109.    | Sociology 3 <sup>rd</sup> Sem              | 22.02.2021        | 04.03.2021 | 23.03.2021          | 39                         | 100         |
| 110.    | Sociology 4 <sup>th</sup> Sem              | 01.10.2020        | 08.10.2020 | 17.08.2021          | 39                         | 100         |
| 111.    | Strategic Area Studies 1 <sup>st</sup> Sem | 22.03.2021        | 01.04.2021 | 30.04.2021          | 11                         | 100         |
| 112.    | Strategic Area Studies 2 <sup>nd</sup> Sem | 15.12.2020        | 25.12.2020 | 12.08.2021          | 10                         | 100         |
| 113.    | Strategic Area Studies 3 <sup>rd</sup> Sem | 22.02.2021        | 04.03.2021 | 24.03.2021          | 03                         | 100         |
| 114.    | Strategic Area Studies 4 <sup>th</sup> Sem | 01.10.2020        | 07.10.2020 | 12.08.2021          | 03                         | 100         |
| 115.    | Tea Science 1 <sup>st</sup> Sem            | 22.03.2021        | 31.03.2021 | 04.05.2021          | 13                         | 100         |
| 116.    | Tea Science 2 <sup>nd</sup> Sem            | 15.12.2020        | 24.12.2020 | 12.08.2021          | 13                         | 100         |
| 117.    | Tea Science 3 <sup>rd</sup> Sem            | 22.02.2021        | 01.03.2021 | 22.03.2021          | 04                         | 100         |
| 118.    | Tea Science 4 <sup>th</sup> Sem            | 01.10.2020        | 02.10.2020 | 12.08.2021          | 03                         | 100         |
| 119.    | Zoology (DGC) 1 <sup>st</sup> Sem          | 06.01.2021        | 11.01.2021 | 17.08.2021          | 31                         | 100         |
| 121.    | Zoology (DGC) 3 <sup>rd</sup> Sem          | 06.01.2021        | 11.01.2021 | 17.08.2021          | 17                         | 100         |
| 123.    | Zoology (NBU) 1 <sup>st</sup> Sem          | 22.03.2021        | 26.03.2021 | 28.06.2021          | 46                         | 100         |
| 124.    | Zoology (NBU) 2 <sup>nd</sup> Sem          | 15.12.2020        | 18.12.2020 | 12.08.2021          | 33                         | 100         |
| 125.    | Zoology (NBU) 3 <sup>rd</sup> Sem          | 22.02.2021        | 05.02.2021 | 24.03.2021          | 31                         | 100         |

| Sl. No. | Name of Examination               | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|-----------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                   | Start             | End        |                     |                            |             |
| 126.    | Zoology (NBU) 4 <sup>th</sup> Sem | 01.10.2020        | 05.10.2020 | 12.08.2021          | 31                         | 100         |
| 128.    | P.G.D.T.M. 2 <sup>nd</sup> Sem    | 01.10.2020        | 04.10.2020 | 20.10.2020          | 22                         | 100         |

**P.G. (Distance Education), 2020  
(System of Examination – CBCS)**

| Sl. No. | Name of Examination              | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|----------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                  | Start             | End        |                     |                            |             |
| 01.     | Bengali 1 <sup>st</sup> Sem      | 19.02.2020        | 22.02.2020 | 23.09.2020          | 99                         | 100         |
| 02.     | Bengali 2 <sup>nd</sup> Sem      | 18.01.2021        | 28.01.2021 | 03.03.2021          | 86                         | 100         |
| 03.     | Bengali 3 <sup>rd</sup> Sem      | 28.10.2020        | 01.11.2021 | 12.11.2020          | 22                         | 100         |
| 04.     | Bengali 4 <sup>th</sup> Sem      | 05.02.2021        | 13.02.2021 | 19.02.2021          | 22                         | 100         |
| 05.     | English 1 <sup>st</sup> Sem      | 19.02.2020        | 22.02.2020 | 23.09.2020          | 103                        | 100         |
| 06.     | English 2 <sup>nd</sup> Sem      | 18.01.2021        | 28.01.2021 | 03.03.2021          | 98                         | 100         |
| 07.     | English 3 <sup>rd</sup> Sem      | 28.10.2020        | 01.11.2020 | 12.11.2020          | 33                         | 100         |
| 08.     | English 4 <sup>th</sup> Sem      | 05.02.2021        | 13.02.2021 | 19.02.2021          | 31                         | 100         |
| 09.     | History 1 <sup>st</sup> Sem      | 19.02.2020        | 22.02.2020 | 23.03.2020          | 153                        | 100         |
| 10.     | History 2 <sup>nd</sup> Sem      | 18.01.2021        | 28.01.2021 | 03.03.2021          | 132                        | 100         |
| 11.     | History 3 <sup>rd</sup> Sem      | 28.10.2020        | 01.11.2020 | 12.11.2020          | 32                         | 100         |
| 12.     | History 4 <sup>th</sup> Sem      | 05.02.2021        | 13.02.2021 | 19.02.2021          | 32                         | 100         |
| 13.     | Mathematics 1 <sup>st</sup> Sem  | 19.02.2020        | 22.02.2020 | 23.09.2020          | 61                         | 100         |
| 14.     | Mathematics 2 <sup>nd</sup> Sem  | 18.01.2021        | 28.01.2021 | 03.03.2021          | 61                         | 100         |
| 15.     | Mathematics 3 <sup>rd</sup> Sem  | 28.10.2020        | 01.11.2020 | 12.11.2020          | 34                         | 100         |
| 16.     | Mathematics 4 <sup>th</sup> Sem  | 05.02.2021        | 13.02.2021 | 19.02.2021          | 34                         | 100         |
| 17.     | Nepali 1 <sup>st</sup> Sem       | 19.02.2020        | 22.02.2020 | 23.09.2020          | 70                         | 100         |
| 18.     | Nepali 2 <sup>nd</sup> Sem       | 18.01.2021        | 28.01.2021 | 03.03.2021          | 68                         | 100         |
| 19.     | Nepali 3 <sup>rd</sup> Sem       | 28.10.2020        | 01.11.2020 | 12.11.2020          | 28                         | 100         |
| 20.     | Nepali 4 <sup>th</sup> Sem       | 05.02.2021        | 13.02.2021 | 19.02.2021          | 26                         | 100         |
| 21.     | Philosophy 1 <sup>st</sup> Sem   | 19.07.2020        | 22.02.2020 | 23.09.2020          | 38                         | 100         |
| 22.     | Philosophy 2 <sup>nd</sup> Sem   | 18.01.2021        | 28.01.2021 | 03.03.2021          | 37                         | 100         |
| 23.     | Philosophy 3 <sup>rd</sup> Sem   | 28.10.2020        | 01.11.2020 | 12.11.2020          | 11                         | 100         |
| 24.     | Philosophy 4 <sup>th</sup> Sem   | 05.02.2021        | 13.02.2021 | 19.02.2021          | 11                         | 100         |
| 25.     | Pol. Science 1 <sup>st</sup> Sem | 19.02.2020        | 22.02.2020 | 23.09.2020          | 106                        | 100         |



| Sl. No. | Name of Examination              | Examination Dates |            | Result Published on | No. of Candidates Appeared | % Qualified |
|---------|----------------------------------|-------------------|------------|---------------------|----------------------------|-------------|
|         |                                  | Start             | End        |                     |                            |             |
| 26.     | Pol. Science 2 <sup>nd</sup> Sem | 18.01.2021        | 28.01.2021 | 03.03.2021          | 96                         | 100         |
| 27.     | Pol. Science 3 <sup>rd</sup> Sem | 28.10.2020        | 01.11.2020 | 12.11.2020          | 30                         | 100         |
| 28.     | Pol. Science 4 <sup>th</sup> Sem | 05.02.2021        | 13.02.2021 | 19.02.2021          | 29                         | 100         |

**CHAPTER – XIV**  
**DEPARTMENTAL JOURNALS**



## ANWESHAN

ANWESHAN is a double blind & peer-reviewed Journal of the Department of Commerce, University of North Bengal. This journal is published by University of North Bengal for which the authors have to bear no processing and/ or publication fees. The journal is also uploaded in the website for broader academic access. The journal invites original research articles/papers from the fields of commerce, accounting, management, economics and other allied disciplines.

Frequency: Bi-Annual

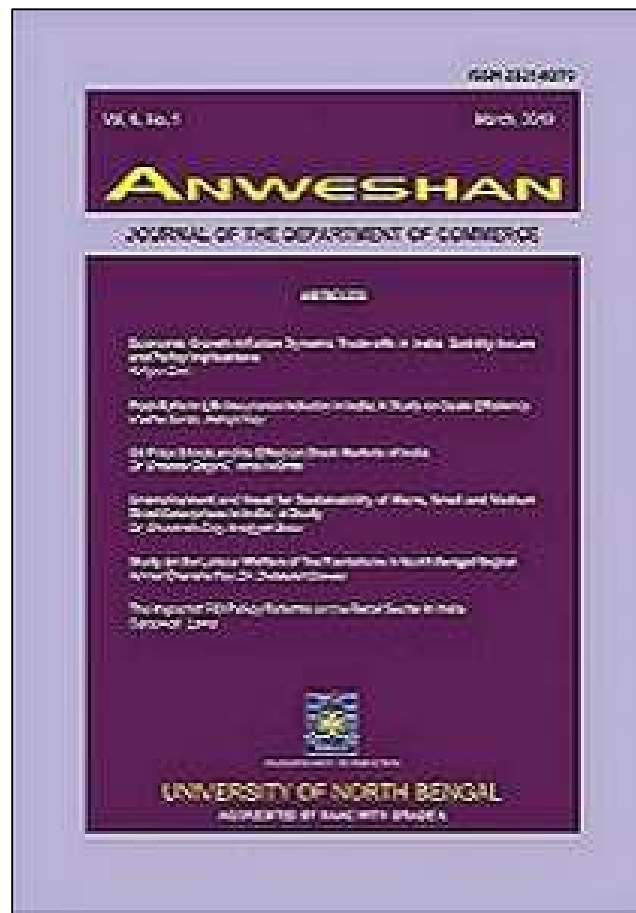
Medium: Print Only

Published since: 2013

Discipline: Commerce

Focus: Management & Accounting

ISSN: 2321 0370



## INDIAN JOURNAL OF LAW AND JUSTICE

Indian Journal of Law and Justice is a peer-reviewed Journal published in March and September, by the Department of Law, University of North Bengal. Indian Journal of Law and Justice is intended to serve as the outlet for theoretical and empirical research in basic concepts of law and its various dimensions depending upon the period of time and as well as its applicability to the nature of society in which it is to operate.

The publications in this journal is the testimony for spreading the inference of multi-faceted research in various fields of law. The principle of this journal is to provide a platform for exchange of ideas and dissemination of information not only from established legal luminaries but also for the young faculties and researchers in the field of law and allied subjects.

ISSN: 0976 - 3570

Frequency: Bi-Annual

Medium: Print Only

Published since: 2010

Discipline: Arts and Humanities

Subject Focus: Law & Justice



## JOURNAL OF PHYSICS RESEARCH AND EDUCATION

The Journal of Physics Research and Education (JPRE) emphasizes contribution in the emerging areas of research and education in Physics. JPRE provides a really exciting opportunity to consider the truly interdisciplinary nature of research in Physics at a time of great change across the wider landscape of Physics research. The objective of JPRE is to publish up-to-date, high-quality and original research papers alongside relevant and insightful reviews. The journal is also dedicated to maintaining and improving the standard of taught Physics in Universities and the submitted articles are peer-reviewed.

Language: English

Frequency: Annual

Medium: Print Only

Published since: 2021

Discipline: Physics Research and Education

Subject Focus: Physics



## **JOURNAL OF POLITICAL STUDIES**

Journal of Political Studies offers an insightful perspective on contemporary issues and debates in the field of politics. The journal presents theoretical and empirical articles and methodological notes and delivers political science research with an edge. It covers sub-areas as Indian and Comparative Politics, as well as International Relations, Political Theory, Public Administration, Political Sociology, Gender Issues and Political Thought.

ISSN: 2278-4039

Frequency: Bi-Annual

Medium: Print Only

Published since: 2012

Discipline: Arts and Humanities

Broad Subject: Political Science

Subject Focus: Political Science



## JOURNAL OF WOMEN STUDIES

The Journal of Women Studies is published by the Centre for Women Studies, University of North Bengal.

ISSN: 2320-3625

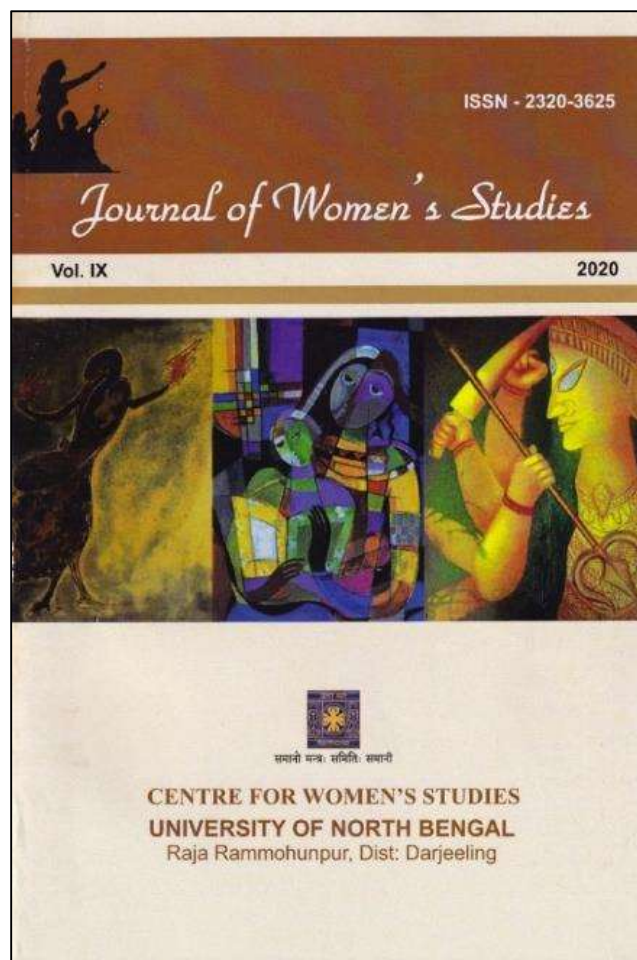
Frequency: Annual

Medium: Print Only

Published since: 2009

Discipline: Arts and Humanities

Subject Focus: Women's Studies





## KARATOYA

Karotaya is a blind peer-reviewed journal published by the Department of History, University of North Bengal. The journal publishes research articles and short notes in English on History and its allied sub-disciplines and is published annually. It considers original research articles based on interpretation of freshly retrieved information or re-interpretation of existing database on the subjects. Review articles based on critical assessment of published database on specific themes are also accepted.

ISSN: 2229-4880

Language: English

Frequency: Annual

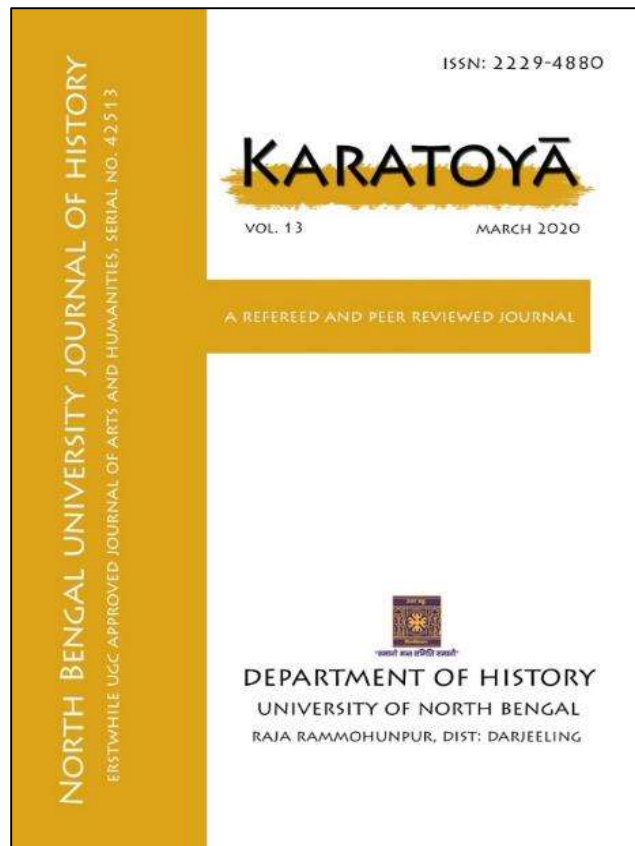
Medium: Print Only

Published since: 2007

Discipline: Arts and Humanities

Broad Subject: History

Subject Focus: History



## NBU JOURNAL OF PLANT SCIENCES

The NBU Journal of Plant Sciences (NBUJPS) serve as the official organ of the Department of Botany, University of North Bengal. The Journal publishes Original research articles, Review articles and Short communications ranging across all fields of Botany, Microbiology, Agriculture and Plant Sciences. The journal is dedicated to publishing articles of national and international relevance.

Frequency: Annual

Medium: Print Only

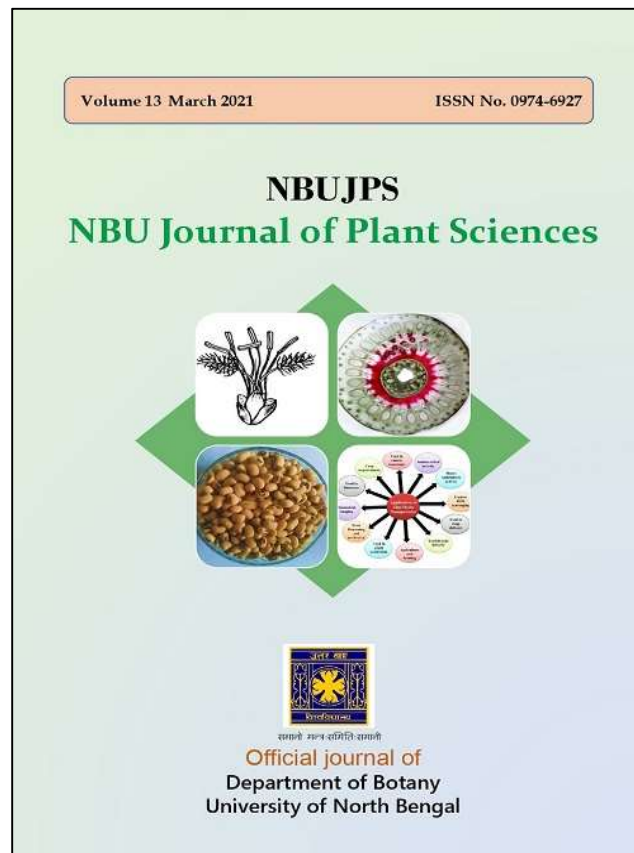
Published since: 2007

Discipline: Science

Focus: Botany, Microbiology, Agriculture & Allied Subjects

Published at: University Press, NBU

ISSN: 0974-6927



## NEGOTIATIONS

Negotiations: An International Journal of Literary and Cultural Studies (NIJLCS) is an annual publication of the Department of English, University of North Bengal. It is a peer-reviewed journal devoted to literary and cultural studies, international in scope and interdisciplinary in method. NIJLCS encourages scholarly submissions on diverse fields of literature, painting, visual art, cultural history, politics, film and media.

ISSN: 2231-1378

Frequency: Annual

Medium: Print Only

Published since: 2018

Discipline: Arts and Humanities

Broad Subject: English

Subject Focus: English



## PHILOSOPHICAL PAPERS

Philosophical Papers is a yearly journal published by the Department of Philosophy, University of North Bengal since 2007. The journal is a UGC – CARE listed journal and accepts contributions from all fields of philosophy.

ISSN: 0976 - 4496

Frequency: Annual

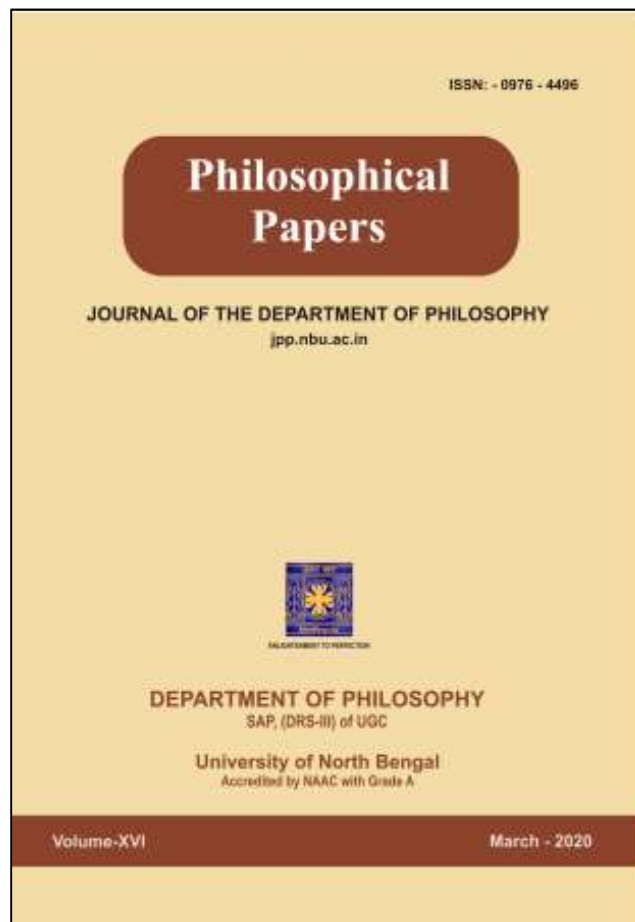
Medium: Print Only

Published since: 2007

Discipline: Arts and Humanities

Broad Subject: Philosophy

Subject Focus: Philosophy



## **SOCIAL TRENDS**

Social Trends is a UGC enlisted (Sl. No. 42176) peer-reviewed/refereed interdisciplinary journal, published annually by the Department of Sociology, University of North Bengal.

ISSN: 2348-6538

Frequency: Annual

Medium: Print Only

Published since: 2014

Discipline: Arts and Humanities

Broad Subject: Sociology

Subject Focus: Social Science





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