

**Dr. Sanjoy Kumar Ghosal**

M.Sc. (Jadavpur University), Ph.D. (Jadavpur University)

Associate Professor

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**Contact Addresses**

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**Subject Specialization :** Topology, Functional Analysis.

**Areas of Research Interest :** Ideal and statistical convergence, statistical convergence in probability.

**No. of Ph.D. students :** a) **Supervised:** 02  
b) **Ongoing:** 02

**Achievement & Awards :** Gold Medalist in M.Sc. (2006), NET C.S.I.R (JRF) (2007), State Government fellowship (2007), GATE Qualified (2008).

**Professional Experiences:**

- [1] Kalyani Government Engineering College, Kalyani, Nadia, West Bengal-741235, India (from 12/08/2010 to 17/06/2015).
- [2] Netaji Subhas Open University, School of Sciences, Kalyani, Nadia, West Bengal-741235, India (from 18/06/2015 to 27/09/2018).
- [3] University of North Bengal, Department of Mathematics, Raja Rammohunpur, Darjeeling, West Bengal-734013, India (from 28/09/2018 to till date).

**Additional Information:**

For more information please visit:

Personal Website: <https://sites.google.com/view/sanjoyghosal/home>

MathSciNet: <https://mathscinet.ams.org/mathscinet/MRAuthorID/896390>

## **Selected Publications:**

1. S. Ghosal, S. Mandal, Rough weighted  $I$ - $\alpha\beta$ -statistical convergence in locally solid Riesz spaces, *Journal of Mathematical Analysis and Applications*, Vol. 506, No. 2 (2022), 125681.
2. S. Ghosal, S. Mandal, The degree of roughness, *Topology and its Applications*, Vol. 307 (2022), 107944.
3. S. Ghosal, M. Banerjee, Rough weighted statistical convergence on locally solid Riesz spaces, *Positivity*, Vol. 25, No. 5 (2021), pp. 1789-1804.
4. S. Ghosal, A. Ghosh, Rough weighted  $I$ -limit points and weighted  $I$ -cluster points in  $\theta$ -metric space, *Mathematica Slovaca*, Vol. 70, No. 3 (2020), pp. 667-680.
5. S. Ghosal, M. C. Listan-Garcia, M. Mondal, M. Banerjee, Influence of  $\theta$ -metric spaces on the diameter of rough weighted  $I_2$ - limit set, *Filomat*, Vol. 34, No. 3 (2020), pp. 737–750.
6. S. Ghosal, A. Ghosh, When deviation happens between rough statistical convergence and rough weighted statistical convergence, *Mathematica Slovaca*, Vol-69, No. 3 (2019), pp. 871–890.
7. S. Ghosal, M. Banerjee, Effects on rough  $I$ -lacunary statistical convergence to induce the weighted sequence, *Filomat*, Vol. 32, No. 10 (2018), pp. 3557–3568.
8. S. Ghosal, S. Som, Different behaviors of rough weighted statistical limit set underunbounded moduli, *Filomat*, Vol. 32, No. 7 (2018), pp. 2583–2600.
9. P. Das, S. Ghosal, A. Ghosh and S. Som, Characterization of rough weighted statistical limit set, *Mathematica Slovaca*, Vol. 68, No. 4 (2018), pp. 881-896.
10. P. Das, S. Ghosal and S. Som, Different types of quasi weighted statistical convergence in probability, *Filomat*, Vol. 31, No. 5 (2017), pp. 1463-1473.
11. S. Ghosal, Generalized weighted random convergence in probability, *Applied Mathematics and Computation*, Vol. 249 (2014), pp. 502-509.
12. S. Ghosal, Statistical convergence of a sequence of random variables and limit theorems, *Applications of Mathematics*, Vol-58, No. 4 (2013), pp. 423-437.
13. P. Das, S. Ghosal and S. Pal, Extending asymmetric convergence and Cauchy condition using ideals, *Mathematica Slovaca*, Vol-63, No. 3 (2013), pp. 545-562.
14. P. Das, E. Savas and S. Ghosal, On generalizations of certain summability methods using ideals, *Applied Mathematics Letters*, Vol-24 (2011), pp. 1509-1514.
15. P. Das, S. Pal and S. Ghosal, Some further remark on ideal summability in 2-normed spaces, *Applied Mathematics Letters*, Vol-24 (2011), pp. 39-43.

16. P. Das and S. Ghosal, When  $I$ -Cauchy nets in complete uniform spaces are  $I$ -convergent, *Topology and its applications*, Vol-158 (2011), pp. 1529-1533.
17. P. Das and S. Ghosal, On  $I$ -Cauchy nets and completeness, *Topology and its applications*, Vol-157 (2010), pp. 1152-1156.
18. P. Das and S. Ghosal, Some further results on  $I$ -Cauchy sequences and condition (AP), *Computer and Mathematics with Application*, Vol-59 (2010), pp. 2597-2600.

### **Course Editor:**

Course: Real Analysis, Course Code: CC-MT-04, Under Graduate Degree Program (CBCS), Honours in Mathematics (HMT), Netaji Subhas Open University.

### **Course Coordinator/Director/Organizing Secretary:**

1. UGC-DEB Sponsored one-day National Conference on “Distance Education and its obscurities: Addressing the “Inaccessibility” Conundrum in Mathematics and other disciplines”, Organized by School of Sciences, Netaji Subhas open University on 9<sup>th</sup> June, 2018.
2. Refresher Course in Mathematics, University of North bengal, Coordinator (from 01.08.2019 to 14.08.2019).
3. Workshop on Lie group and Lie algebra sponsored by University of North Bengal, Department of Mathematics, March 2- March 4, 2020.

### **Audio Visual Lecturers:**

Netaji Subhas open University, School of Sciences, Audio Visual Lecturer, First Phase-2017, Post Graduate Curricula, SL No.: AVL-57 to AVL-62, Topic- General Topology, Course Code: PGMAT VIA

### **Invited/ Contributed Talk/Visiting Professor:**

1. Personal Contact Program for Semester-III of M. Sc course in Mathematics, The University of Burdwan (from 16/12/2014 to 24/12/2014).
2. Visiting Professor in M. Sc Course of the Department of Mathematics, Bangabasi Evening College (from 29/03/2017 to 10/05/2017) Topic- General Topology.
3. Visiting Professor in M. Sc Course of the Department of Mathematics, West Bengal State University (from February 2017 to July 2017) Topic- General Topology.
4. Deliver lectures in Refresher Course in Mathematics, University of North Bengal on 07/12/ 2018.
5. Guest faculty in M. Sc Course of the Department of Mathematics, Darjeeling Hill University, Darjeeling (from January 2022 to till date).