

Dr. Amar Kumar Banerjee

Designation: Professor of Mathematics

Affiliation : Dept. of Mathematics, The University of Burdwan

Date of Birth: 27.01.1971

Mailing Address: Department of Mathematics, The University of Burdwan,
Golapbag, P.O.- Rajbati, Dist:- Burdwan, West Bengal, India,
PIN: 713104

Email Address: akbanerjee@math.buruniv.ac.in, akbanerjee1971@gmail.com

Academic Qualifications:

Exam Passed	year of Exam.	Board/ University	Div./ Class
Madhyamik	1986	W.B.B.S.E.	1 st
Higher Secondary	1988	W.B.C.H.S.E.	1 st
B.Sc.(Hons.)	1991	Burdwan University	1 st
M.Sc.(Pure Mathematics)	1993	Burdwan University	1 st

Award got if any:

- Got National Scholarship during the Studies of PG Courses.
- Qualified UGC-NET (JRF) in December, 1996
- Awarded Ph.D. from Jadavpur University in 2006

Academic Experiences: 26 years(approx.) (UG- 9 years, PG- 17 years):

Name of College/University	Designation	Duration
St. Paul's Cathedral Mission College, Kolkata	Lecturer	06.07.1999-05.07.2005
St. Paul's Cathedral Mission College, Kolkata	Sr. Lecturer	06.07.2005- 30.06.2008
The University of Burdwan, Burdwan	Reader	01.07.2008-30.06.2011
The University of Burdwan, Burdwan	Associate Professor	01.07.2011-09.01.2017
The University of Burdwan, Burdwan	Professor	10.01.2017- Till date.

Area of research: *Got Ph.D. degree working in the field of Density topology, Sparse set topology and Measure and integration. Presently research work is being carried out in the field of General Topology (Generalized sets), Density topology and Summability theory (Ideal convergence of sequences and nets in topological spaces, convergence of double sequences , Rough convergence of sequences etc.)*

Ph.D. Guided :

- Students awarded : 7
 - (i) Tanusree Choudhury, 2013
 - (ii) Pratap Kumar Saha, 2017
 - (iii) Apurba Banerjee, 2017
 - (iv) Rahul Mondal 2021
 - (v) Jagannath Pal 2022

- (vi) **Anirban Paul** **2023**
(vii) **Mahendranath Paul** **2024**

Administrative Experiences:

- (i) Former Head of the Department of Mathematics, Burdwan University during 21st September, 2012 to 20th September, 2014.
- (ii) Former Course Coordinator in Mathematics, DDE, Burdwan University.
- (iii) Former Secretary, General Provident Fund, St. Paul's Cathedral Mission College, Kolkata

Member of several Bodies.:

- (i) Member, Post Graduate Board of Studies in Mathematics, Dept. Of Mathematics, Burdwan University
- (ii) Member, Board of Research Studies in Mathematics, Dept. Of Mathematics, Burdwan University
- (iii) Former Member, Under Graduate Board of Studies, Dept. Of Mathematics, Burdwan University
- (iv) Member, Post Graduate Board of Studies in Mathematics, Dept. Of Mathematics, WB State University
- (v) Former Chairman, Post Graduate Board of Studies in Mathematics, DDE, Burdwan University
- (vi) Former Member, Under Graduate Board of Studies in Mathematics, Netaji Subhas Chandra Bose Open University
- (vii) Former Member of Advisory Committee of Academic Staff College, Burdwan University
- (viii) Former Member of Advisory Committee of CDOE, Burdwan University
- (ix) Former Member, Board of Research Studies in Mathematics, Dept. Of Mathematics, WB State University

Member of academic Org.:

- (i) Life member of Calcutta Mathematical Society, Kolkata, West Bengal, India
- (ii) Former Member of the Editorial Board of FOCUS, Netaji Mahavidyalaya, Arambag, Hoogly, West Bengal, India.
- (iii) Acted as reviewer of several journals.

Recent Publications:

(a) **Books:**

- **Amar Kumar Banerjee** and Anindya Dey, Metric Spaces and Complex Analysis, New Academic Science Limited, (2015), 27, Old Gloucester Street, London, WC1N 3AX, U.K.

ISBN: 978-1-906574-95-6

(b) **Papers:**

1. Pratulananda Das and **Amar Kumar Banerjee**, *Pairwise Borel and Baire measures in bispaces*, Archivum Mathematicum(Brno),41,2005,5-15
2. Pratulananda Das and **Amar Kumar Banerjee**, *Integration in bispaces*, Proc. Nat. Acad. Sci.India, 76(A),III,2006,225-234.
3. Pratulananda Das and **Amar Kumar Banerjee**, *A Note on ψ -density topology*, Kochi Journal of Mathematics,3, 2008,211-216.
4. **Amar Kumar Banerjee**, *A Note on density in a bispaces*, Bull. Cal. Math. Soc.,100,(1),2008,67-72.
5. Pratulananda Das and **Amar Kumar Banerjee**, *On the sparse set topology*, Mathematica Slovaca, 60(3),(2010),319-326 .
6. **Amar Kumar Banerjee** and Pratap Kumar Saha, *Bispace group*, International J.of Math. Sci.& Engg. Appls.,5(V), 2011,41-47.
7. **Amar Kumar Banerjee** and Pratap Kumar Saha , *Semi open sets in bispaces*,CUBO A Mathematical Journal, 17(1), 2015,99-106.
8. **Amar Kumar Banerjee** and Apurba Banerjee, *A Note on I- convergence and I^* -convergence of sequences and nets in topological spaces*, Matematicki Vesnik, 67(3),2015,212-221
9. **Amar Kumar Banerjee** and Pratap Kumar Saha, *Quasi-open Sets in Bispaces*, Gen. Math. Notes, 30(2), 2015,1-9.
10. **Amar Kumar Banerjee**, *Sparse set topology and the space of proximally continuous mappings*, South Asian Journal of Mathematics,6(2),2016,58-63.
11. **Amar Kumar Banerjee** and Pratap Kumar Saha, *b^* -Open sets in bispaces*, International journal of Mathematics and Statistics Invention,4(6),2016,39-43.
12. **Amar Kumar Banerjee** and Rahul Mondal, *A Note on connectedness in a bispaces*, Malaya Journal of Matematik, 5(1)(2017), 104-108
13. **Amar Kumar Banerjee** and Rahul Mondal ,*A Note on convergence of double sequences in a topological space* Matematicki Vesnik, 69,No.2 (June2017),44-152.
14. **Amar Kumar Banerjee** and Pratap Kumar Saha, *Pairwise semi bicomactness and pairwise semi Lindeloff bispaces*, International J.Math.Sci.& Engg.Appls.,11,No.II, (Aug.2017) ,47-56.
15. **Amar Kumar Banerjee** and Pratap Kumar Saha, *Pre-open sets in bispaces*, South East Asian J. of Math. & Math. Sci.,13, No.2,sept 2017 ,63-74.
16. **Amar Kumar Banerjee** and Rahul Mondal, *A Note on discontinuity of mappings in a bispaces*, J. Cal..Math..Soc.. Vol No.13(2)(2017), pp.105-112.
17. **Amar Kumar Banerjee** and Jagannath Pal, *Semi λ^* -Closed sets and new separation axioms in Alexandroff spaces*, South East Asian J. of .Math. & Math. Sci., Vol No.14(1)(2018), pp. 115-134.
18. **Amar Kumar Banerjee** and Apurba Banerjee, *I-Convergence classes of sequences and nets in topological spaces*, Jordan Journal of Mathematics and Statistics ,Vol No.11(1)(2018), pp. 13-31.
19. **Amar Kumar Banerjee** and Apurba Banerjee, *A study on I-Cauchy sequences and I-divergence in S-metric spaces*, Malaya Journal of Matematik Vol No.6(2)(2018), pp. 326-330,
20. **Amar Kumar Banerjee** and Jagannath Pal, *λ^* -Closed sets and new separation axioms in Alexandroff spaces*, Korean J. Math., Vol .No. 26(4)(2018),pp.709-727.

21. **Amar Kumar Banerjee** and Rahul Mondal, *Rough convergence of sequences in a cone metric space*, The Journal of Analysis, Vol No.27(4)(2019), pp. 1179-1188.
22. **Amar Kumar Banerjee** and Apurba Banerjee, *I-Completeness in function spaces*, Tatra Mountains Mathematical Publications, Vol No.74,(2019), pp. 35-46.
23. **Amar Kumar Banerjee** and Jagannath Pal, *New separation axioms in generalized bitopological spaces*, Mathematical Sciences, Vol No.14,(2020), pp. 185-192.
24. **Amar Kumar Banerjee** and Anirban Paul, *I-divergence and I^* -divergence in cone metric spaces*, Asian-European Journal of Mathematics, Vol No.13(8),(2020), pp. 2050139(11pages).
25. **Amar Kumar Banerjee** and Anirban Paul, *On I and I^* -Cauchy condition in C^* -algebra valued metric spaces*, Korean J. Math., Vol No. 29(3)(2021),pp. 621-629.
26. Jagannath Pal and **Amar Kumar Banerjee**, *$S\beta_\lambda$ -Closed sets and some low separation axioms in GT-spaces*, The Mathematics Student, Vol No.90(3-4),(2021), pp. 123-141.
27. **Amar Kumar Banerjee** and Anirban Paul, *Rough convergence in cone metric spaces*, J. Math. Comput. Sci., Vol No.12:78,(2022),pp.1-18(<https://doi.org/10.28919/jmcs/6808>).
28. **Amar Kumar Banerjee** and Rahul Mondal, *Pairwise bicomactness in bispaces and product of bispaces*, South East Asian J. of .Math. & Math. Sci, Vol No. 18(1),(2022) pp. 267-276.
29. **Amar Kumar Banerjee** and Anirban Paul, *On rough I^* and I^K convergence of sequences in normed linear spaces*, Facta Universitatis (NIS) Ser. Math. Inform., Vol No.37(3)(2022), pp. 541-557.
30. **Amar Kumar Banerjee** and Mahendranath Paul, *Strong I^K convergence in normed probabilistic metric spaces*, Iranian journal of Mathematical Sciences and Informatics, Vol No. 17(2) (2022),pp. 273-288.
31. **Amar Kumar Banerjee** and Nesar Hossain, *On I -convergence of sequences of functions and uniform conjugacy*, Journal of Mathematical Analysis, Vol No.13(5)(2022), pp. 12-20.
32. Nesar Hossain and **Amar Kumar Banerjee**, *Rough I -convergence in intuitionistic fuzzy normed spaces*, Bulletin of Mathematical Analysis and Applications, Vol No. 14(4) (2022), pp. 1-10.
33. **Amar Kumar Banerjee** and Nesar Hossain, *A study on I - localized sequences in S -metric spaces*, Communications in Mathematics and Applications, Vol No. 14(1)(2023), pp. 49-58.
34. **Amar Kumar Banerjee** and Nesar Hossain, *On I and I^* -equal convergence in linear 2- normed spaces*, Malaya Journal of Matematik, Vol No. 11(2) (2023), pp.151-157.
35. **Amar Kumar Banerjee** and Mahendranath Paul, *Weak and weak* I^K - convergence in normed spaces*, Ratio Mathematica, Vol No. 47(2023), pp. 309-323.
36. Rahul Mondal and **Amar Kumar Banerjee**, *Paracompactness in a bispase*, Bulletin of Mathematical Analysis and Applications, Vol No.15(1)(2023), pp. 24-33.
37. **Amar Kumar Banerjee** and Indrajit Debnath, *On density topology using ideals in the space of reals*, Filomat, Vol.No. 38:2(2024), pp. 743-768.

38. Rukhsar Khatun, Md Sadikur Rahman, **Amar Kumar Banerjee** and Asoke Kumar Bhunia, *Completeness properties of interval metric spaces*, Afrika Matematika, Vol. No. 35:58 (2024), pp. 1-17.
39. Rukhsar Khatun, Md Sadikur Rahman, **Amar Kumar Banerjee** and Asoke Kumar Bhunia, *On some theoretical developments of interval metric space*, Yugoslav Journal of Operation Research, Vol No. 34(2), (2024), pp. 381-404.
40. Indrajit Debnath and **Amar Kumar Banerjee**, *On some topology generated by I-density function*, Bulletin of Mathematical Analysis and Applications, Vol No. 16(3) (2024), pp. 1-12.
41. **Amar Kumar Banerjee** and Indrajit Debnath, *On a generalized density point defined by families of sequences involving ideals*, Mathematica Bohemica, DOI: 10.21136/MB.2025.0043-24.
42. Nesar Hossain and **Amar Kumar Banerjee**, *Rough I-convergence of sequences in probabilistic normed spaces*, Korean J. Math., Vol No. 33(1)(2025),pp. 75-85.