



UNIVERSITY OF CALCUTTA

FACULTY ACADEMIC PROFILE / CV

1. Full name of the faculty member : **Dhananjoy Mandal**
2. Designation : **Associate Professor**
3. Specialization : **Set-Topology**
4. Passport size photograph :



5. Contact information :

Department of Pure Mathematics, University of Calcutta
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6. Academic qualifications :

College/University from which the degree was obtained	Abbreviation of the degree
University of Calcutta	B.Sc. (Math. Hons.) (1 st Class)
University of Calcutta	M.Sc. in Pure Mathematics (1 st Class, 2 nd Rank)
University of Calcutta	Ph.D. (Sc.) in Pure Mathematics

7. Positions held/holding :

- Associate Professor, Dept of Pure Mathematics, Calcutta University from 30. 06. 2016 to till date
- Assistant Professor, Dept of Pure Mathematics, Calcutta University
- Assistant Professor, Department of Mathematics, Visva Bharati

8. Research interests :

- Topology
- Fuzzy Systems
- Soft Set Theory

9. Research guidance :

- Number of researchers awarded M.Phil/Ph.D. degrees: Nil
- Number of researchers pursuing M.Phil/Ph.D. : 06 Ph.D. students

10. Projects :

Completed projects:

- Carried out a UGC sponsored Research Project entitled “Investigation of some problems of set-topology in wider settings” during 2012-2014.

11. Select list of publications :

(a) List of papers

- P-Closedness in fuzzy topological spaces (with M. N. Mukherjee), Univ. Din Bacău, Stud. Cer. Şti. Seria: Mat., Nr. 18(2008), 141-152.
- On a generalization of S-closedness for topological spaces via ideals (with M. N. Mukherjee), Rev.Acad. Canar. Cienc. 21(Nos. 1-2), (2009), 95- 103.
- On some generalized types of sets and functions: certain decompositions (with M. N. Mukherjee), J. Adv. Res. Pure Math. 4 (2012), 1-8.
- On a type of generalized closed sets (with M. N. Mukherjee), Bol. Soc. Paran De Mat (3) 30 (2012), 67-76.
- On a class of sets via grills: a decomposition of continuity (with with M. N. Mukherjee), Anal. Stiintifice Ale Univ. Ovidius Constanta, Seria Matematica 20(1) (2012), 307-316.
- On some new characterizations of near paracompactness and associated result (with M. N. Mukherjee) Mat. Vesnik 65(3) (2013), 335-345.
- Concerning nearly metrizable spaces (with M. N. Mukherjee), Applied General Topology 14(No.2) (2013), 135-145.
- Fuzzy P-closed spaces through fuzzy grills (with M. N. Mukherjee), Annals Fuzzy Math. Informatics 6(No. 1) (2013), 95-102.
- Near metrizable via a new approach (with M. N. Mukherjee), Applied General Topology, 15(No. 1) (2014), 25-32.

- On countably nearly paracompact spaces (with M. N. Mukherjee), *Mat. Vesnik* , 66 (No.3) (2014), 265-273.
- Some classes of fuzzy sets in generalized fuzzy topological spaces and certain unifications (with M. N. Mukherjee) *Annals of Fuzzy Mathematics and Informatics*, 7(No.1) (2014), 949-957.
- On separation axioms weaker and stronger than regularity and normality via grill, *Jour. Pure Math.* 31(2014), 89-100.
- Certain new classes of generalized closed sets and their applications in ideal topological spaces (with M. N. Mukherjee), *FILOMAT* 29:5(2015), 1113-1120.
- Characterizations of some new classes of fuzzy sets in generalized fuzzy topology (with M. N. Mukherjee and Sumita Basu), *Jordan Journal of Math. & Stat.*8(3) (2015), 195-207.
- On certain types of sets in ideal topological spaces (with M. N. Mukherjee), *Analele Univ. de Vest, Timisoara Mat. Infor.* 53 (No.2) (2015), 99-108.
- Soft group based on soft elements (with Jayanta Ghosh and T. K. Samanta), *Jordan Journal of Math. & Stat.* 9(2) (2016), 141-159.
- Some characterizations of Kenmotsu manifolds admitting a quarter-symmetric metric connection(with U. C. De and K. Mandal), *Bull. Transilv. Univ. Braşov Ser. III* 9(58)(1) (2016), 39–52.
- Concerning s-closedness in ideal topological spaces, *Questions and Answers in General topology*, 34(2)(2016), 71-82.
- Some new characterizations of nearly metrizable spaces (with M. Das), *Questions and Answers in General topology*, 34(2)(2016), 101-113.
- On a new type of generalized closed sets in a GTS via hereditary classes and certain applications(with M. Das), *An. Univ. Oradea, Fasc. Mat* 24(1)(2017), 127-135.
- Some applications of certain new types of sets in GTS via hereditary classes (With M. Das), *Bulletin of the Transilvania University of Brasov* 10(59) No 1 (2017), 91-102.
- Soft Vector Spaces and Soft Topological Vector Spaces (With Sanjoy Roy and T. K. Samanta), *Jordan Journal of Math. & Stat.* 10(2)(2017), 143-167.
- Balanced and absorbing soft sets on a soft topological vector space (with Sanjoy Roy and T. K. Samanta), *Bull. Allahabad. Math. Soc*, 30(2)(2017), 249-269.
- Soft semiprimary int-ideals of a ring (with Jayanta Ghosh and T. K. Samanta),*An. Univ. Oradea, Fasc. Mat* 25(1)(2018), 141-151.

Books/book chapters :

- 01 Book (UG and PG Levels)

b) Conference/seminar volumes :

c) Other publications :

12. Membership of Learned Societies : Nil

13. Patents: Nil

14. Invited lectures delivered: I have attended and presented many papers in national/international seminars/conferences held at different places.

- National seminar on “Analysis and Its Applications, 2011” at Calcutta Mathematical Society.
- National seminar on “Recent Trends in Mathematics and its Applications, 2013” at Department of Pure Mathematics, University of Calcutta.
- National Seminar on “Mathematics and Its Applications, 2014” at Kalyani University.
- International conference on “Frontier in Mathematics 2015” at Gauhati University.
- National seminar on “Mathematics and its Impact on Natural Science, 2015” at Bangabasi Morning College.
- International conference on “Mathematical Sciences for Advancement of Science and Technology, 2015” at Institute for Mathematics, Bioinformatics, Information Technology and Computer Science.
- National seminar on “Recent Developments in Mathematics and its Applications, 2016” at Kalyani University.
- International seminar on “Recent Trends in Mathematical Sciences and Applications, 2016” at University of Burdwan.
- National seminar on “Advances and Applications of Contemporary Mathematics, 2017” at K. K. Das College, University of Calcutta.

15. Awards:

- Junior Research Fellowship, Council of Scientific and Industrial Research (UGC) Govt. of India, 2005.
- Successfully cleared Gate examination, 2005.
- Recipient of Aditi Choudhury Smarak Scholarship, 2005.

16. Other activities:

- a member of the P.G. Board of Studies (in Mathematics) of Bangabasi Evening College.
- a member of some visiting/Inspecting teams (as an expert in Mathematics) of Calcutta University.
- an organizer of some mathematical Seminars/Conferences as Convener at Department of Pure Mathematics, University of Calcutta.
- Reviewer of Mathematical Review (American Mathematical Society)
- Have been acting as a referee of some National/International Journals published from different parts of the world.
- Head of the Department, Department of Pure Mathematics from April 02, 2015 to April 01, 2017.
- The Convenor of the Ph. D. Research Advisory Committee, Department of Pure Mathematics, University of Calcutta.
- a member of the P.G. Board of Studies (in Mathematics) of Prabhu Jagabandhu College.