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
   35, Ballygunge Circular Road, Kolkata-700 019
   Res: 1522, Madurdaha, Kolkata- 700107
   Email: dmandal.cu@gmail.com/dmpm@caluniv.ac.in
   Ph. No. (0)9830147463

6. **Academic qualifications :**

College/University from which the degree was obtained	Abbreviation of the degree
University of Calcutta	B.Sc. (Math. Hons.) (1st Class)

University of Calcutta	M.Sc. in Pure Mathematics (1st Class, 2nd 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/submitted M.Phil/Ph.D. degrees: Three students Ph. D degrees awarded and One thesis submitted.**
   - **Number of researchers pursuing M.Phil/Ph.D. : 04 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 metrizability 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.**
- **Certain results on N(K)-paracontact metric manifolds (with K. Mandal), Note Di Mathematica, 38 (2) (2018), 21-33.**
- **Proximity structure on generalized topological spaces (with M. N. Mukherjee and D. Dey), Afrika Matematika 30(2019), 91-100.**

- A class of ideals in intermediate rings and continuous functions (with S. K. Acharyya and S. Bag), Applied General Topology 20(1)(2019), 109-117.
- On a type of N(k)-paracontact metric manifolds(with S. Mandal, K. Mandal), An. Univ. Oradea, Fasc. Mat 27(1)(2020), 79-85.
- On a type of generalized (k,\mu)-paracontact metric manifolds(S. Makhal and K. Mandal) Bulletin of the Transilvania University of Brasov 13(62) No 1 (2020), 237-246.
- Soft prime and semiprime int-ideals in a ring (with J. Ghosh and T. K. Samanta), AIMS Math 5(2020), 732-745.
- Soft maximal and irreducible int-ideals of a ring (with J. Ghosh and T. K. Samanta), New Mathematics and Natural Computation, 16(1)(2020), 37-52.
- A note on soft semi norm and soft norm (with S. Roy and T. K. Samanta), New Mathematics and Natural Computation, 16(3)(2020), 437-445.
- z^0-ideals in intermediate rings of ordered field valued continuous functions (with S. Bag and S. K. Acharyya), Questions and Answers in General topology, 38(1)(2020), 43-52.
- Uniformity on generalized topological spaces (with M. N. Mukherjee and D. Dey), Arab Journal of Mathematical Sciences, to appear.

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.

- **International conference on "Mathematical Sciences for Advancement of Science and Technology, 2018" at Institute for Mathematics, Bioinformatics, Information Technology and Computer Science.**

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,(2015-2019).**
- **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, April, 2017 to July, 2021.**
- **a member of the U.G. Board of Studies (in Mathematics) of Calcutta University.**
- **Managing Editor, Journal of Pure Mathematics.**

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Signature of the faculty member
Date :