

Proforma for Faculty Members for uploading their personal data on the College Website
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Name: DR. PRAVASH MANDAL

Designation: ASSOCIATE PROFESSOR AND HEAD

Department: PHYSICS

Date of Joining: 21.09.2001

Address: VILL.BEJPARA, P.O. DIGHRA, P.S. CHAKDAHA, DIST. NADIA,
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Academic Qualification: Ph.D.

Specialization in Master Degree: ELECTRONICS

Courses Taught: B.Sc. (HONS.) CLASSES OF 1ST, 2ND AND 3RD YEAR (THEORY AND PRACTICAL);
GENERAL CLASSES (BOTH THEORY AND PRACTICAL).



Convener/In-charge of Committees/Sub-Committees: NOT TILL NOW

Member of Committees/Sub-Committees: Member of Academic, Wall Magazine, Vidyasagar Anniversary, Games & Sports, Service Book & Leave, Promotion & Fixation, Faculty & Staff welfare Sub-committees.

Research Interest (in brief): I carried out research in the field of Anti-ferroelectric Liquid Crystals for PhD thesis in the Department of Physics, University of Kalyani, Nadia, West Bengal, India.

CURRENT RESEARCH INTEREST: LIQUID CRYSTALS, OPTICAL ELECTRONICS, CONDENSED MATTER PHYSICS ETC.

Publications (enclose separate sheet if needed):

1. An overview on the Anisotropic Properties of Liquid Crystals, Dr. Pravash Mandal, International Journal of Current Advanced Research, Vol. 8, Issue 10(d), pp. 20313-20316, October 2019.
2. Theoretical Behaviour about the Fredricksz Transition in Polymer Dispersed antiferroelectric Liquid Crystals, Pravash Mandal, Deblal Das and Tapas Pal Majumder, International Journal of Current Advanced Research, Vol. 7, Issue 1(J), pp. 9402-9406, January 2018.
3. The effect of Spin-Spin Interaction in the region of Fredricksz Transition in antiferroelectric Liquid Crystals, Tapas Pal Majumder, Pravash Mandal and Deblal Das, Journal of Pure Applied and Industrial Physics, Vol. 7(12), pp. 436-443, December 2017.
4. The Effect of Ferrroelectric Polarisation within the range of Freedericksz Transition, D Das, P Mandal, T P Majumder, *Journal of Pure, Applied & Industrial Physics*, 2017, vol 7 (5), 175-183, May 2017.
5. Theoretical investigation of dielectric behaviour in the region of Freedericksz transition in antiferroelectric liquid crystals, Pravash Mandal, Deblal Das, Tapas Pal Majumder, *Journal of Molecular Liquids*, 2016, vol. 215, pp. 170-174.

It will be very helpful if you prepare this proforma using word and submit the soft copy to Rajkumar Mondal directly or by sending to mondal.raj2011@gmail.com

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6. Applications of Boolean Algebra in Digital Electronics: An Overview, P. Mandal, *Edulight*, 4, 7, 223-230, (2015), ISSN- 2278-9545.
7. Basic Concepts of Fiber-optic Communication, P. Mandal, *Contemporary Research in India*, 5, 2, 1-5 (2015), ISSN-2231-2137.
8. Fundamentals of Liquid Crystals and Applications: an Overview, P. Mandal, *Contemporary Research in India*, 5, 3, 1-7 (2015), ISSN-2231-2137.
9. Introduction to Superconductivity and High T_c Super conductors, P. Mandal, *Contemporary Research Spectrum*, 1, 1, 85-92, (2015) ISSN-2454-8987
10. Dielectric Behavior of Antiferroelectric Liquid Crystals in presence of Flexoelectric Effect, D Das, P Mandal, T P Majumder, *Brazilian Journal of Physics*, 2015, vol 45, no 3, 280-287, ISSN – 0103-9733
11. The effect of spin-spin interaction on the complex dielectric permittivity in antiferroelectric liquid crystals, D Das, P Mandal, T P Majumder, *Sci.Lett.* 2015, 4: 194,1-5.

Ongoing and Completed Research Projects (enclose separate sheet if needed): NONE.

Books/Reports/General Articles/Chapters (enclose separate sheet if needed): NONE.

Talks/Posters/Papers Presented (enclose separate sheet if needed): None

Participation in Schools/Conferences/Workshops/Symposia/Seminars:
(enclose separate sheet if needed)

National Level

1. UGC sponsored national-level seminar on Application of Mathematics in Science and Social Science, organised by the Department of Mathematics, Nabadwip Vidyasagar College on 10th and 11th January 2012.
2. UGC sponsored national-level seminar on Impact of Environmental Education on Daily Life organised by Shimurali Sachinandan College of Education, Nadia on 16th July 2013.
3. National Conference on Current Trends in Particle Physics Research organized by Department of Physics, University of Kalyani on March 13 -15, 2014.
4. UGC sponsored national-level seminar on Development and the Role of Local Self- Government: Indian Perspective, Organized by the Department of Commerce and the Department of Economics, Nabadwip Vidyasagar College, Nadia on December 11 &12, 2015.

State Level

1. State Level Seminar on Trends in Astronomy, Astrophysics and Cosmology, organized by Department of Physics Kalna College, Burdwan on 21-22 November, 2011.

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2. UGC sponsored State-level seminar on Bio-diversity in India: Perspective, Management and Conservation, organized by Dwijendralal College, Nadia on 26th February 2011.
3. UGC sponsored Course-work on Research Methodology, organized by Nabadwip Vidyasagar College on & from 27-30, March, 2012.
4. Professor Satya Sundar Barman Memorial Lecture-2016 on Scientific Development and Technological Innovation of the 21st Century- Paving Peace or Annihilation, organized by Krishnagar Government College on 10th December 2016.

Awards/Prizes/Certificates (enclose separate sheet if needed):

S. No.	Name of award	Awarding Agency	Year
1	West Bengal State Level Eligibility Test	WBCSC	1996

Member of State/National/International Professional Bodies: Life Member of IACS& IAPT

Personal Webpage: (Link if any)

Research Gate Profile: NIL