

Faculty Profile



- **Name:** Dr. Amit Kumar Majhi (PhD)
- **Designation:** Assistant Professor
- **Date of Joining:** 18.02.2020
- **E-mail:** kumaramitmajhi@gmail.com
- **Phone no.:** +918073110234
- **Address (office):** Gour Mohan Sachin Mandal Mahavidyalaya, Bireshwarpur, South 24 Parganas, West Bengal 743336, India
- **Educational Qualifications:**

Course	Board/University	Passing year
10 th	West Bengal Board of Secondary Education (Indas High School, Indas, Bankura)	2002
12 th	West Bengal Council of Higher Secondary Education	2004
B.Sc/B.A/B.Com/any other equivalent	Narendrapur Ramakrishna Mission Residential College, Calcutta University	2007
M.Sc/M.A./M.Com/an y other equivalent	Indian Institute of Science, Bangalore	2009
M.Phil	NA	NA
PhD	Indian Institute of Science, Bangalore	2016

- **Courses taught/teaching:** Classical Mechanics, Waves and Optics, Modern Physics, Quantum Mechanics, Statistical Physics, and Solid State Physics.
- **Specialization/Research Interest:** Soft Matter Physics
- **Teaching Experience:**

Affiliation	Designation	Tenure (years)
➤ Gour Mohan Sachin Mandal Mahavidyalaya, Bireshwarpur, South 24 Parganas, West Bengal 743336, India	➤ Assistant Professor	3

- **Research Experience:**

Affiliation	Designation	Tenure (years)
Raman Research Institute C. V. Raman Avenue, Sadashivanagar Bengaluru, Karnataka-560 080, INDIA.	Postdoctoral Research Associate	3

- **Industry Experience:**

Name of the Organization	Designation	Tenure (years)
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➤ **Research projects:**

Project name	Funding Agency	Tenure	Status

➤ **Publications:**

Total no. of publications in Journals: 4

Total no. of publications as Book chapters/Books: NIL

List of Publications (Mention maximum 10 publications of your choice):

Paper title	Author(s)	Journal Name	Year	Volume and Page No.	ISSN/IS BN
Columnar liquid crystalline phases of surfactant-DNA complexes,	Meera Thomas, Anindya Chowdhury, <u>Amit Kumar Majhi</u> , VA Raghunathan,	Liquid Crystals,	2021	49, and 1184-1193	
Structure and stoichiometry of CTAB-DNA complexes	S Madhukar, AV Radhakrishnan, <u>Amit Kumar Majhi</u> , VA Raghunathan,	The Journal of Chemical Physics	2020	153, and 224901	
Estimation of activation energy for electroporation and pore growth rate in liquid crystalline and gel phases of lipid bilayers using molecular dynamics simulations	<u>Amit Kumar Majhi</u> , S Kanchi, V Venkataraman, KG Ayappa, PK Maiti,	Soft matter	2015	11, and 8632-8640.	
Optically transparent polymer devices for in situ assessment of cell electroporation	<u>Amit Kumar Majhi</u> , G Thirivikraman, B Basu, V Venkataraman,	Journal of European Biophysics	2015	44, and 57-67	

➤ **Research Guidance:**

Total no. of Bachelors/Master's thesis guidance:

Role: Guide/Co-guide (*keep whichever is applicable*)

Total no. of PhD thesis guidance:

Role: Guide/Co-guide (*keep whichever is applicable*)

➤ **Conference/Seminars/Workshops attended:**

Total no. of Conference/Seminars attended: 4

Total no. of workshops attended: 2

List of Conference/Seminars/Workshops (*Mention maximum 10 of your choice*):

Title of the presentation	Name of Conference/Seminars/Workshops	Organized by	Date
Experimental investigation of phase behaviour of different lattice structures of surfactants-DNA complexes	Amit Kumar Majhi, VA Raghunathan,,	AIP Conference Proceedings	2021
Step-wise potential development across the lipid bilayer under external electric fields	Amit Kumar Majhi	AIP Conference Proceedings	2018
Developed Potential across the Bilayers under External Electric Field Causes Electroporation	Amit Kumar Majhi	Biophysical Journal	2018
Comparison of Activation Energy and Pore Dynamics in Liquid and Gel Phases of Electroporated Lipid Bilayers using Temperature Dependent MD Simulations	Amit Kumar Majhi, S Kanchi, V Venkataraman, G Ayappa, P Maiti	Biophysical Journal	2015

➤ **Conference/Seminars/Workshops organized**

Name of Conference/Seminars/Workshops /Webinar	Organized by	Convener/Organizing Committee member	Date
Thermoelectric harmony between heat and electricity	Department of Physics, Gour Mohan Sachin Mandal Mahavidyalaya	Dr. Amit Kumar Majhi	11.09.2020
Gas permeation through graphdiyne-based nanoporous membranes	Department of Physics, Gour Mohan Sachin Mandal Mahavidyalaya	Dr. Amit Kumar Majhi	04.02.2023
What is supervised machine learning?	Department of Physics, Gour Mohan Sachin Mandal Mahavidyalaya	Dr. Amit Kumar Majhi	11.02.2023
Filming ultrafast events on nanoscale dimensions	Department of Physics, Gour Mohan Sachin Mandal Mahavidyalaya	Dr. Amit Kumar Majhi	12.04.2023

➤ **Faculty Development program/Refresher course/Short term courses attended:**

Type of the program	Name of the program	University/organization	Duration	Date
➤ Short term course	Managing Online classes and Co-Creating Moocs 3.0	Ramanujan College University of Delhi (Teaching Learning Centre)	2 weeks	25/07/2020 to 10/10/2020
➤ Short term course	Physics refresher course	University of Calcutta, UGC, HRDC, 92, Acharya Prafulla Chandra Road, Kolkata-700009.	2 weeks	15.02.2022 to 28.02.2022

➤ **Awards:**

Name of the Award	Awarding body	Occasion	Year
Best Poster Award	62nd DAE-Solid State Physics Symposium	Conference	2017
National Eligibility Test (NET)	HRD-CSIR, Govt. of India	Career Advancement Program	2009

➤ **Membership of Professional/Academic Bodies:**

Member of	Duration
The Biophysical Society, Address: 5515 Security Lane, Suite 1110 Rockville, MD 20852, 240-290-5600.	2015-2019