Faculty Profile

Name Dr. Soma Banik

Designation Assistant Professor

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Address for Communication: Dhaleswar, Road no. 8, Agartala 799007, Tripura (W)

Date of Joining in Service:- 27.07.2005

Subject: Physics

Specialization:- Electronics

Year of Experience :- 16 years (+)

Publication Details:

Seminar Proceedings/ Articles in Edited Books and Journals (with ISBN/ISSN)

Titles	Publisher	Month and Year
Adsorption kinetics of a fluorescent dye in a long chain fatty acid matrix	Elsevier Spectrochimica Acta Part A 79 (2011) 1642–1647 ISSN NO. 1386-1425	2011
Study of Hysteresis during pH and Temperature Changes of Acriflavine: A Gateway to Optrode.		2014
Clay induced aggregation of a tetra-cationic metalloporphyrin in Layer by Layer self assembled film.		2015
A study on the interactions of cationic porphyrin with nano clay platelets in Layer-by-Layer (LbL) self assembled films.	Elsevier Journal of Chemical Physics Letter, 633 (2015) 82-88. ISSN NO. 0009-2614	2015
Adsorption behaviour of a cationic dye onto nano clay platelets in layer by layer self assembled film	•	2015
An effect of pH on the interaction of DPPC with RhB	Proceedings of the UGC sponsored National Seminar on Recent Trend of Research in Chemistry – A New Horizon of Hopes, ISBN 978-93-81631-36-2 (2015) 111-120.	2015
Adsorption of protein at air-water interface in the presence of two Xanthene dyes	Proceedings of NCRTRP-2015, "Status of Research in Physics in North-	2015

	East India" ISBN 978-93-81631-38-6 (2015)	
	113-120.	
pH induced interaction of DPPC with a	Taylor and Francis	2017
fluorescent dye in Langmuir and Langmuir	Molecular Crystals And Liquid Crystals,	
Blodgett (LB) films.	643 (2017) 255-265.	
	ISSN NO. 1542-1406	
Modified aggregation pattern of cresyl violet	Elsevier	2018
acetate adsorbed on nano clay mineral	Journal of Photo Chemistry Photo	
layers in Langmuir Blodgett film.	Biology A: Chemistry, 353 (2018) 570-	
	580. ISSN NO. 1010-6030	
Effect of nano clay platelets on the hybrid	Elsevier	2018
monolayer of a cationic oxazine dye: In-situ	Materials Today: Proceedings, 5 (2018)	
Brewster Angle Microscopic (BAM) study	2352-2358. ISSN NO. 2214-7853	
Study of aggregation behavior of water	Elsevier	2018
insoluble metalloporphyrin (Zn) in LB film	Materials Today: Proceedings, 5 (2018)	
	2246-2253. ISSN NO. 2214-7853	

Papers Presented at National/International Seminars / Conferences:

	Title/Subject of paper presented	Subject of Conference / Organizing		Duration
		Seminar / Symposium /	Institution/ and	
		Workshop	Name of City/	
			Country	
1.	Effect of solar flares on VLF radio	Fourth conference on Physics	G. C. College,	November
1.		research in North East	Silchar,	5-6, 2004
	wave propagation	research in North East	Silchar,	5-0, 2004
2.	Effect on leonid meteor shower	Current Trends of Research in	Guahati University,	January
	on the propagation of sferics	Science and Technology	Assam	20 20 2005
				28-29, 2005
3.	Investigation of a two	Seminar on Contemporary	IAQC, Karimganj	November
	dimensional phase separation	Areas in Physical & Life	College, Karimganj	26-27, 2009
	between RhB and NK by	Sciences.		
	fluorescence imaging microscopy			
4.	Adaptation kinetics of a	7 th National Conference in	Dont of Physics	October
4.	Adsorption kinetics of a		Dept. of Physics,	October
	fluorescent dye in a long chain	Physics, PANE-2010	Manipur	5-6, 2010
	fatty acid matrix		University	
5.	Reaction kinetics of a water	International Conference on	Dept. of	January
	soluble laser dye with a	Emerging areas of Chemistry,	Chemistry, Tripura	

	preformed monolayer at air water interface.	ICEAC-2011	University	12-14, 2011
6.	Adsorption behavior of Rhodamine B in clay laponite in ultra thin films by LbL method	National Conference on Recent Trends of Research in Physics - 2012	Dept. of Physics, Tripura University	February 3-4, 2012
7.	Study of Hysteresis during pH and temperature changes of Acriflavine: A gateway to optrode	International Conference on Material Science, ICMS-2013	Dept. of Physics, Tripura University	February 21-23, 2013
8.	Adsorption behavior of a cationic dye onto nano clay platelets in Layer by Layer self assembled film	National Conference on Recent Trends of Research in Physics- 2015	Dept. of Physics, Women's College, Agartala, Tripura	July 23-24, 2015
9.	Effect of pH on the interaction of DPPC with RhB	UGC sponsored National Seminar on Recent Trend of Research in Chemistry –A New Horizon of Hope	Dept. of Chemistry, Women's College, Agartala, Tripura	August 8-9, 2015
10.	Adsorption of a water soluble dye onto a phospholipid monolayer at the air-water interface	National Seminar on Recent Advances in Natural Products Chemistry for Drug Discovery	Dept. of Chemistry, Netaji Subhas Mahavidyalaya, Udaipur, Tripura	November 28-29, 2015
11.	A study of complex and hybrid films of cresyl violate acetate (CVA) at the air-water interface and in LB film	Second International conference on Material Science	Dept. of Physics, Tripura University, Tripura	February 16-18, 2017

Delivered Invited Lectures at Symposiums/ Workshops/ Training Programmes:

- Acted as a resource person in Training Program of School Teachers under Rastriya Avishkar Abhiyan (10th to 14th July, 2017) held at Tripura University.
- As a **Programme Coordinator**, conducted a 7 days online workshop on "Online Teaching Tools and Development of e-content" through Youtube video tutorials among the faculty members of Women's College, 15-21 September 2020 and also acted as a **Resource Person** in the programme.

Chaired at Seminars/ Conferences/ Workshops: NIL

Attended Faculty Development Programmes:

SI. NO.	Name of the Course/Summer School	Place	Duration	Sponsoring agency
1.	Staff Development Programme on Advanced Operating System using Linux	NIT, Agartala	14 th -23 rd December, 2009	AICTE
2.	Refresher Course on Thin Films and Nanoscience	Tripura University Suryamaninagar	4 th - 18 th May, 2015	Indian Academy of Sciences
3.	Refresher Course on Statistical Physics and its applications	Tripura University Suryamaninagar	2 nd - 17 th May, 2017	Indian Academy of Sciences
4.	Workshop on Thin Films & Nanomaterials: Principles and Applications	Department of Physics, Tripura University	March 26-28, 2018.	Indian Academy of Sciences
5.	Training Programme of 100 hours duration titled "Information Technology and Digital services (including digital payments and GST)"	Women's College, Agartala	August 20 – September 7, 2018.	NIELIT in partnership with MDoNER, Govt, of India,
6.	2-Week FDP on "MANAGING ONLINE CLASSES AND CO-CREATING MOOCS 3.0"	Teaching Learning Centre, Ramanujan College, University of Delhi	July 25 – August 10, 2020	MHRD, PMMMNMTT, Govt. of India
7.	5 Days National e-workshop on "Linux Fundamentals	Dept of IT, Women's college, Agartala	December 3-8, 2020	
8.	5 days online FDP on "Web Apps & E-Content Development for Digital Learning"	Institute of Advanced Studies in Education, Agartala in association with Dept. of Educational Technology, Bharathidasan University, Tamilnadu	25 -29 May, 2021	

Research Achievements:

Minor Research Project : 01 (Completed)

SI.	Title	Agency	Period	Grant amount mobilized
No.				(Rs. in lakhs)
1.	A reaction kinetics study of the adsorption	UGC-	18 months	
	behavior of fluorescent dye at air water interface and also in ultra thin films using LB and LBL	NERO	(Completed)	1.2 lakhs
	technique			