



CURRICULUM VITAE

1. PERSONAL DETAILS:

Name (In Capital Letters): DR. BARNALI BARMAN

Designation: Assistant Professor

Department: Physics

Academic Qualifications: M.Sc., Ph.D.

Date of Birth: 08.04.1991

Gender: Female

Nationality: Indian

Date of Joining in the College: 30.12.2020

Permanent Address: Name: Barnali Barman, D/O: Jahar Lal Barman, Vill. + P.O.: Khattimari, Sub-Division: Mathabhanga, Police Station: Ghoksadanga, Dist.: Cooch Behar, PIN: 736171, West Bengal, India.

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2. EDUCATION:

Examination/Degree	Board/Council/University/Other Examining Body	Year of Completion	Division	Percentage of Marks
M.P	W.B.B.S.E	2006	I	75
H.S	W.B.C.H.S.E	2008	I	78
B.Sc. Physics (Honours)	University of North Bengal	2011	I	71.37
M.Sc. in Physics	University of North Bengal	2013	I	79
B.Ed.	University of North Bengal	2015	I	74.35
NET	CSIR-UGC	2016	N/A	Qualified
Ph.D.	University of North Bengal	2022	N/A	As per UGC Regulations 2016

Title of the Ph.D. Thesis: Phase transitions and physical properties of some mesogenic compounds and their binary mixtures.

Areas of Interest: Liquid Crystal, Soft Condensed Matter Physics.

3. WORK EXPERIENCE:

Period	Designation	Name of the Institute
30.12.2020 -Till Date	Assistant Professor	Seva Bharati Mahavidyalaya

4. ARTICLES/PAPERS PUBLISHED IN JOURNALS:

Sl. No.	Title of the Paper	Name of the Author	Dept. of the Teacher	Name of the Journal	Year of Publication	ISSN, Vol. No., Issue No., Page No.	Link to the recognition in UGC enlistment of the Journal/Digital Object		
							Link to the Website of the Journal	Link to article/paper/ abstract of the article	Is it listed in UGC Care List
01.	Critical behaviour in the vicinity of nematic to smectic A (N-SmA) phase transition of two polar-polar binary liquid crystalline systems.	Barnali Barman	Physics	Phase Transitions	2018	1029-0338 91(1), 58-70.	https://www.tandfonline.com/journals/gpht20	https://doi.org/10.1080/01411594.2017.1357182	Yes

02.	Effect of molecular structure on dielectric and electro-optic properties of chiral liquid crystals based on lactic acid derivatives.	Barnali Barman	Physics	Journal of Molecular Liquids	2019	1873-3166 283, 472-481.	https://www.sciencedirect.com/journal/journal-of-molecular-liquids	https://doi.org/10.1016/j.molliq.2019.03.071	Yes
03.	Dielectric Properties of Chiral Ferroelectric Liquid Crystalline Compounds with Three Aromatic Rings Connected by Ester Groups.	Barnali Barman	Physics	Crystals	2019	2073-4352 9, 473.	https://www.mdpi.com/journal/crystals	https://doi.org/10.3390/cryst9090473	Yes
04.	Investigation on the critical behaviour in the vicinity of the smectic-A to re-entrant nematic-phase transition.	Barnali Barman	Physics	Liquid Crystals	2023	https://doi.org/10.1080/02678292.2023.2275165	https://www.tandfonline.com/journals/tlct20	https://doi.org/10.1080/02678292.2023.2275165	Yes

6. SEMINAR/CONFERENCE/WEBINAR PROCEEDINGS:

Sl. No.	Title of the Paper	Details of the Seminar /Conference /Webinar	Organized by	Year & Date of Commencement	ISSN / ISBN	Status (National / International)
01.	Study of physical	2nd International	Organized	10 th -20 th	DOI:10.33	International

	properties associated with some binary mixtures of chiral ferroelectric liquid crystalline compounds.	Online Conference on Crystals; Session: Liquid Crystal at the platform of Sciform.	by MDPI, Switzerland, BASEL.	November, 2020	90/IOCC_2020-07234	
02.	Study of the critical behaviour in the vicinity of various phase transitions associated with two antiferroelectric enantiomers R-MHPOBC, S-MHPOBC and their RACEMIC MIXTURE.	3rd International Online Conference on Crystals, Session: Liquid Crystal at the platform of Sciform.	Organized by MDPI, Switzerland, BASEL.	15 th -30 th January, 2022	DOI:10.3390/IOCC_2022-12148. ISSN-2673-4583	International

7. PAPERS PRESENTED IN THE SEMINAR/CONFERENCE/WEBINAR:

Sl.No.	Title of the Paper	Details of the Seminar / Conference / Webinar	Organized by	Year & Date of Commencement	Status (National / International)
01.	Critical behaviour in the vicinity of nematic to smectic A (N-SmA) phase transition of two polar-polar binary liquid crystalline systems.	23rd National Conference on Liquid Crystals 2016 (NCLC-2016).	Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand, India.	7 th -9 th December, 2016	National
02.	Effect of molecular structure on dielectric and electro-optic properties of chiral liquid crystals based on lactic acid derivatives.	26th National Conference on Liquid Crystals 2019 (NCLC-2019).	Chitkara University, Chandigarh, India.	21 st -23 rd October, 2019	National
03.	Dielectric Properties of Chiral Ferroelectric Liquid Crystalline Compounds with Three Aromatic Rings Connected by Ester Groups.	26th National Conference on Liquid Crystals 2019 (NCLC-2019).	Chitkara University, Chandigarh, India.	21 st -23 rd October, 2019	National
04.	Study of physical properties associated with some binary mixtures of chiral ferroelectric liquid crystalline compounds.	2nd International Online Conference on Crystals; Session: Liquid Crystal at the platform of Sciform.	Organized by MDPI, Switzerland, BASEL.	10 th -20 th November, 2020	International
05.	Investigation of the nature of SmA* -	27th Online National	Amity University, Delhi, India.	21 st -23 rd December,	National

	SmC* and N* -SmC* phase transitions of some pure Chiral Ferroelectric Liquid Crystalline Compounds and their binary mixtures.	Conference on Liquid Crystals 2020 (NCLC-2020).		2020	
06.	Study of the electro-optic and dielectric properties of some ferroelectric liquid crystalline bi-component mixtures.	International Webinar, RPLCM-2021 on Recent Perspectives on Liquid Crystalline Materials: Chemistry, Physics and Biological Applications.	Organized by Department of Chemistry, Assam University, Silchar, India.	4 th -5 th October, 2021	International
07.	Effect of molecular structure on dielectric and electro-optic properties of chiral liquid crystals based on lactic acid derivatives.	International (Online) Conference on Innovations in Applied Science and Engineering (ICIASE-2022).	Organized by Department of Physics, Department of Mathematics, Department of Electronics and Communication Engineering and Department of Humanities and Management, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India.	18 th -19 th May, 2022	International
08.	Study of the critical behaviour in the vicinity of various phase transitions associated with two antiferroelectric enantiomers R-MHPOBC, S-MHPOBC and their RACEMIC MIXTURE.	3rd International Online Conference on Crystals, Session: Liquid Crystal at the platform of Sciforum.	Organized by MDPI, Switzerland, BASEL.	15 th -30 th January, 2022	International
09.	Investigation on the critical behaviour in the vicinity of the smectic-A to re-entrant nematic-phase transition.	30th National Conference on Liquid Crystals 2023 (NCLC-2023).	Organized by Department of Physics, Andhra University, Visakhapatnam, Andhra Pradesh, India.	2 nd -4 th November, 2023	National

12. CONFERENCE /SEMINAR/WORKSHOP/WEBINAR ORGANIZED:

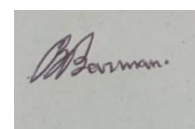
Sl.No.	Title of the Conference	Details of the Seminar / Conference / Webinar	Organized by	Year & Date of Commencement	Status (National / International)
01.	Ecosystem Restoration for Environmental Protection	National Webinar for the Celebration of World Environment Day-2023	Seva Bharati Mahavidyalaya, Kargari, Jhargram, West Bengal	23 rd June, 2023	National

14. AWARDS (If Any):

1. University Gold Medal for First Class First Position in the M.Sc. (Physics) of the Year 2013.
2. University Silver Medal for First Class Second Position in the B.Sc. (Physics Honours) of the Year 2011.

DECLARATION

I declare that the particulars given above are correct to the best of my knowledge and belief.



Date: 17.03.2024

Signature