

Curriculum Vitae

Personal Information

Name: Dr. Jwmwi Basumatary

Father's Name: Mr. Sukleswar Basumatary

Mother's Name: Mrs. Mina Basumatary

Date of Birth: 01/03/1993

Nationality: Indian

Category: ST(P)

Marital Status: Single

Permanent Address: H/N:387, Sudempuri,
Bijni Town W/N -1, Bijni, Chirang (BTR), Assam, 783390

Phone: +91 99571 91189/
+91 87877 76571

Email: jbbnita@gmail.com



Education Qualification:

- **HSLC:** Bijni Girls' High School, Bijni, Assam, (2008).
 - **Subject studied:** English; Bodo (MIL); General Science; General Mathematics, Social Science; Hindi⁴
- **HSSLC:** Bijni Bandhab H. S. School, Bijni, Assam, (2009-2011).
 - **Subject studied:** English; Bodo (MIL); Physics; Chemistry; Mathematics.
- **B. Sc.:** Physics (Major), Birjhora Mahavidyalaya, Bongaigaon, Assam, (2011-2014).
 - **Subject studied:** Physics (Major); Chemistry; Mathematics; English.
- **M. Sc.:** Physics, Tezpur University, (2014-2016).
 - **Subject studied:** Physics
 - **Area of Specialization:** Condensed Matter Physics
- **PhD:** PhDs in Physics, NIT Agartala Tripura, India, *Awarded*, (2022).
 - **Area of Interest:** *Soft Matter; Liquid Crystal; Raman Spectroscopy*

Award in Academic:

- **Anundoram Borooah award** by Government of Assam for securing 1st division in HSLC examination held in 2008.

Teaching experience:

- **UG level:** 1 year, Gyanpeeth Degree College, Nikashi, Baksa.

Details of Research Publications with ISSN Nos:

- **J. Basumatary**, R. Malla, A. Nath, T. K. Devi, “Study of effective geometry parameter, order parameter, temperature gradients and crossover temperatures of three nematic LCs having highly different clearing temperature”, *Optical Materials*, 84, 821-829, 2018. [ISSN: 1873-1252].
- **J. Basumatary**, D. Gangopadhyay, A. Nath, T. K. Devi, “Temperature dependent Raman spectroscopy of a nematic LC compound 6CHBT”, *Journal of Molecular Liquids*, 288, 111065, 2019. [ISSN:0167-7322].
- **J. Basumatary**, A. Nath, T. K. Devi, “Temperature effects on optical parameters of LC binary mixtures exhibiting induced smectic phases”, *Journal of Molecular Liquids*, 311, August 2020. [ISSN:0167-7322].
- **J. Basumatary**, D. Gangopadhyay, A. Nath, T. K. Devi, “Studies of temperature dependent Raman spectroscopy of two nematic liquid crystalline compounds of homologous series”, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 300, 2023. [ISSN:1873-3557].

Details of Books Chapters with ISBN Nos:

- **J. Basumatary**, “Overview of Application of Liquid Crystal in Biosensors”, *Frontiers in Natural Sciences (Vol. I)*, ISBN No.978-81-965954-7-0.
- **J. Basumatary**, “Ferroelectricity in Nematic Liquid Crystal”, *Frontiers in Natural Sciences (Vol. I)*, ISBN No.978-81-965954-7-0.

Conference Paper Published/ Presented:

- **J. Basumatary**, “Investigation of liquid crystalline property of two liquid crystalline compounds”, 24th National Conference on Liquid Crystal (NCLC-2017), IISER- Mohali, 11 Oct -13 Oct, 2017.
- **J. Basumatary**, “Physical characterization of liquid crystal mixtures”, Current Trends in Scientific Research Observed on Research Scholars’ Day-2018, NIT Agartala, 1st February, 2018.
- **J. Basumatary**, "Optical behaviour of two pure liquid crystals with highly different clearing temperature and their binary mixture", International Conference on System and Processes in Physics, Chemistry and Biology (ICSPPCB), Assam University, 1st March-3rd March, 2018.
- **J. Basumatary**, “Effects of temperature on optical parameters of liquid crystal binary mixtures nematic liquid crystal exhibiting induced smectic phases”, Third International Conference on Material Science (ICMS2020), Department of Physics, Tripura University, 4th March – 6th March, 2020.

Workshops Attended:

- Workshop on Computational Aspects of Research in Physics, Department of Physics, Tezpur University, 31st oct- 1st Nov 2014.
- Workshop on Hack Trix, by IIT Delhi, held at Tezpur University, 17th oct-18th oct, 2014.
- Winter school on Condensed Matter Physics, Physics and Applied Mathematics Unit, ISI Kolkata, 11th Jan- 22nd Jan 2016.
- GIAN workshop on Biosensing Principle and Technology, Tezpur University, MHRD, 22nd June- 2nd July, 2016.

Languages Known:

Bodo, Assamese, English, Hindi and Bengali

Declaration:

I, Jwmwi Basumatary, declare that the information furnished above are true to be best of knowledge and believe.



Jwmwi Basumatary
Assistant professor
Department of Physics
Gyanpeeth Degree College
Nikashi, Baksa (BTR)
Guwahati, Assam 781372