

CURRICULUM VITAE

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Education:

- **Ph.D.** in Mathematics under the guidance of Dr. Rajat Kanti Nath in 2023 from the Department of Mathematical Sciences, Tezpur University, Assam, India.
- **Master of Science (Integrated M.Sc. in Mathematics)** from Tezpur University, Assam, India in 2017.
- **Bachelor of Science (B.Sc.)** in Mathematics (6th semester of Integrated M.Sc.) from Tezpur University, Assam, India in 2015.
- **Higher Secondary (H.S.S.L.C.)** from Cotton College, Guwahati, Assam in 2010.
- **Matriculation (H.S.L.C.)** from Netaji Bidya Mandir, Dhekiajuli, Assam in 2008.

Research Interests:

- Algebra.

Professional Experience:

- **Math Teacher** in **St Joseph Convent School, Tezpur** (June, 2018- November, 2018).
- **Guest Faculty of Mathematics (Honorary)** in **Inspire Academics, Tezpur** (March, 2018 to February, 2020).
- **Assistant Professor (Mathematics)** in the **Department of Mathematics, Cachar college Silchar** (23rd August 2021 to present).

Publications (Journals):

- P. Bhowal and R. K. Nath, *Genus of Commuting Graphs of Certain Finite Groups*, **Journal of Algebraic Systems**, Volume 13 (2) (2025), 179-193.
- P. Bhowal and R. K. Nath, *Spectrum and energies of commuting conjugacy class graph of a finite group*, **Algebraic Structures and Their Applications**, Volume 12 (1) (2025), 33-49.
- P. Bhowal, P. J. Cameron, R. K. Nath and B. Sambale, *Genus and crosscap of solvable conjugacy class graphs of finite groups*, **Archiv der Mathematik**, Volume 122 (5) (2024), 475-489
- P. Bhowal, P. J. Cameron, R. K. Nath and B. Sambale, *Solvable conjugacy class graph of groups*, **Discrete Mathematics**, Volume 346 (8) (2023), 113467.

- P. Bhowal and R. K. Nath, *Genus of commuting conjugacy class graph of certain finite groups*, **Algebraic Structures and Their Applications**, Volume 9 (1)(2022), 93-108.
- P. Bhowal and R. K. Nath, *Spectral aspects of commuting conjugacy class graph of finite groups*, **Algebraic Structures and Their Applications**, Volume 8 (2)(2021), 67–118.
- P. Bhowal, D. Nongsiang and R. K. Nath, *Non-solvable graphs of finite groups*, **Bulletin of the Malaysian Mathematical Sciences Society**, Volume 45 (3) (2022), 1255-1272.
- P. Bhowal, *Spectrum and energies of a graph*, **Journal of Mathematical and Computational Science**, Volume 11 (2) (2021), 1355–1363.
- P. Bhowal, D. Nongsiang and R. K. Nath, *Solvable graphs of finite groups*, **Hacettepe Journal of Mathematics and Statistics**, Volume 49 (6) (2020), 1955–1964.

Reviewing experience:

- Hacettepe Journal of Mathematics and Statistics
- Universal Journal of Mathematics and Applications

Papers Presented:

- **SOME PROPERTIES OF SOLVABLE GRAPH OF A FINITE GROUP** presented in the National Seminar on Recent Advancements in Science and Technology (RAST) organized by Union Christian College through the Science Society (UCC) in collaboration with NESAC, PA Sangma Foundation and College of Post-Graduate Studies (CAU), Umiam, Meghalaya, India, during 12th-14th June, 2019.
- **SOME PROPERTIES OF NON-SOLVABLE GRAPH OF A FINITE GROUP** presented in the International Conference on Analysis, Algebra, Combinatorics and their Application (ICAACA-2020) organized by Department of Mathematics, Jadavpur University, Kolkata-700032, India, during January 20-22, 2020.
- **SOLVABLE GRAPH OF A FINITE NON-SOLVABLE GROUP** presented in the International Conference on Advances in Mathematics, Science and Technology (ICAMST-2020) Organized by Department of Mathematics, Rajiv Gandhi University (A Central University) Rono Hills, Doimukh – 791112, Arunachal Pradesh, INDIA, during 1-3 September, 2020.
- **REALISATION OF NON-SOLVABLE GRAPH OF A FINITE GROUP**, presented in the International Conference on Present Scenario in Mathematical Sciences (ICPSMS 2020) Organized by Department of Mathematics, Karnatak University's Karnatak Arts College, Dharwad, India during 12-13 September, 2020.
- **GENUS OF COMMUTING GRAPHS OF CERTAIN FINITE GROUPS**, presented in the 6th Biennial International Group Theory Conference - 2021 (6BIGTC-2021) organized by Department of Mathematics, Vellore Institute of Technology, Vellore, Tamil Nadu, India during 4-6 march, 2021.
- **SOLVABLE CONJUGACY CLASS GRAPH OF GROUPS**, presented in the International Conference on Emerging trends in Pure and Applied Mathematics (Blended Mode) organized by Department of Applied Sciences in association with Department of Mathematical Sciences, Tezpur University, India during 12-13 march, 2022.

- **SOLVABLE CONJUGACY CLASS GRAPH OF GROUPS**, presented in the International Conference in Two-Day Conference on Mathematical Sciences and Applications organized by Department of Mathematical Sciences, Tezpur University, India during 2-3 January, 2025.

Schools, Workshops, Programme attended:

- **Under Graduate Training Programme in Mathematics** (sponsored by DST) organized by Department of Mathematics, Tripura University, Tripura, India, during 5th-19th July, 2013.
- **North-East Summer Workshop in Analysis and Probability 2017** organized by ISI Bangalore in Manipur University, India during 6th-10th July, 2017.
- **Professional Development Programme** on ‘Implementation of NEP2020 for University and College Teachers’ Under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching held from 12-20 June, 2023.
- **Four-week Faculty Induction / Guru Dakshta Programme** (Online) on Multidisciplinary Studies and Teaching Methodologies for the 21st Century under UGC Malaviya Mission Teacher Training Centre, Assam University, Silchar, from 27th August to 30th September, 2024.
- **Short Term Course** in MOOC and E-Content Development under Malaviya Mission Teacher Training Centre (MMTTC) Kannur University from 18.06.2025 to 24.06.2025.

Book Published:

- *Recent Trends in Mathematical Sciences*, LAP Lambert Academic Publishing, Germany, 2019, ISBN – **978-620-0-32416-0**.
- *A Compendium of Trending Research in Mathematical Sciences*, LAP Lambert Academic Publishing, Germany, 2020, ISBN – **978-620-2-91733-9**.
- *Research Trends in Mathematics and Statistics*, AkiNik Publications, New Delhi, India, 2025, ISBN – **978-93-6135-741-1**.

Awards and achievements:

- Qualified CSIR-UGC **LS** and **JRF** in 2017 December.
- Qualified CSIR-UGC **LS** and **JRF** in 2017 June.
- Cleared TEACHER ELIGIBILITY TEST(**TET**) in 10th January, 2012.

Member of Professional Bodies:

- Life Member of Assam Academy of Mathematics.
- Life Member of Assam Science Society.