CURRICULUM VITAE

• Personal Information

Name	: Dr Nabajyoti Bhattacharjee
Father's Name	: Niketan Bhattacharjee
Mother's Name	: Manjushree Bhattacharjee
Present Address	:Shailashree Lane,
	Manipuri Basti, Tarapur-7
	P.O. Tarapur, P.S. Tarapur
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	Assam, India
	PIN: 788003
Permanent Address	: DO
Date of Birth	: 17/02/1985
Category	: General
Marital Status	: Single
Language Known	: English, Bengali, Hindi
Religion	: Hindu
Nationality	: Indian
Email	: nbgg2017@gmail.com
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• Work Experience

1. Worked as Assistant Professor (Non-Sanctioned) in the Department of Mathematics, N.C. College, Badarpur from 18-07-2012 to 30-04-2015 and 01-07-2017 to 22-01-2019
2. Working as Assistant Professor in the Department of Mathematics, Pandit Deendayal Upadhyaya Govt. Model College, Katlicherra from 21th September 2021 till present.

• Educational Qualifications

Class	Board/ University	Subjects	Percentage/CGPA
10th	CBCS	English, Hindi, Social Science, Science, Mathematics	68.4
12th	CBCS	English, Physics, Chemistry, Biology, Mathematics	77.6
B.Sc.	Assam University	Mathematics(H), Physics, Statistics	63.8
M.Sc.	Assam University	Mathematics	7.87 CGPA
M.Phil.	Assam University	Mathematics	Awarded in 2017
Ph.D.	Assam University	Mathematics	Awarded in 2023

- ## Other Qualifications
  1. Qualified **GATE-2012** with 85 percentiles
  2. Qualified **CSIR-UGC-NET LS**, June 2013
  3. **Technical Skill**: MS Office, Scilab 6.0.2, Lingo 18, TaxStudio-Latex, Matlab
  4. **Programming Language**: C, C++, Coding in Matlab, Scilab, Lingo

- ## Administrative Position Hold (HOD/Coordinator)
  1. **Head of the Department of Mathematics, Nabinchandra College, Badarpur, from 01-07-2017 to 22-01-2019**
  2. **Head of the Department of Mathematics, Pandit Deendayal Upadhyaya Govt. Model College, Katlicherra since 21/09/2021 till present.**
  3. **Presently holding the position as Coordinator of Digital Learning Cell, Pandit Deendayal Upadhyaya Govt. Model College, Katlicherra**
  4. **Presently holding the position as Coordinator of Research and Development Cell, Pandit Deendayal Upadhyaya Govt. Model College, Katlicherra**
  5. **Presently holding the postion as Assistant Coordinator in NSS Cell, Pandit Deendayal Upadhyaya Govt. Model College, Katlicherra**
  6. **Working as active member in IQAC, Pandit Deendayal Upadhyaya Govt. Model College, Katlicherra**

- ## Seminar Presented
  1. **Presented a paper in Recent Trends in Basic Science Research (RTBSR-2017), S.S. College, Hailakandi, Assam.**
  2. **Presented a paper in Frontiers of Research in Physical Sciences, 19th -21st January 2018, Karimganj College, Karimganj, Assam.**
  3. **Presented a paper in International Conference on systems and processes in physics, Chemistry and biology, 1st-3rd March 2018, Assam University, Assam.**
  4. **Presented a paper International Conference on Recent Advances in Mathematics and Its Applications (ICRAMA-2019), Department of Mathematics, Tripura University, Tripura**
  5. **Presented a paper National Conference on Recent Developments in Science & Scientific Applications. Diphu Government College, Diphu, Karbi Anglong, March 14-15, 2020**
  6. **Presented a paper International Webinar on Mathematical Analysis and its Applications (IWMAA-2021). Department of Mathematics, Tripura University, Agartala, April 8-9, 2021**
  7. **Presented a paper in Recent Advances in Statistics and Operations Research, Department of Mathematics, NIT Sikkim, Sikkim, October 26-28, 2021**

8. Presented a paper Recent Development in Science and Technology, Department of Chemistry, Karimganj College, Fabruary 17-18, 2024

- ## Teachers Enrichment Program
  1. Completed a Orientation Programme under "4-Week Induction/Orientation Programme for Faculty in Universities/Colleges/Institute of Higher Education", Organized by Teaching and Learning Centre, Ramanujan College University of Delhi, From 15/02/2022 to 16/03/2022.
  2. Completed a Faculty Development Programme under "7-Days FDP on Research Methodology" Organized by M.N.C. Balika Mahavidyalaya, Nalbari, Assam-781335, From 28/03/2023 to 04/04/2023.
  3. Completed a Faculty Induction Programme under Professional Development Programme on "Implementation of NEP-2020 for University and College", Organized by Indira Gandhi National Open University, From 12/06/2023 to 20/06/2023
  4. Completed a Faculty Development Programme under One Week Faculty Induction Programme on "Mathematical Foundations for Computational Intelligence", Organized by Madanpalle Institute of Technology & Science, From 25/11/2024 to 30/11/2024.

- ## Workshops
  1. Participated in national conference on Recent Advances in Mathematical Sciences And their Applications (RAMSA-10), 25-27 November 2010, Assam University, Assam.
  2. Participated in Instructional Workshop on Logic and Set Theory, 18th February-1st March 2013, Kerala School of Mathematics, Kerala.
  3. Participated in One Day Workshop on "Intellectual Property Right (IPR)", 19th January 2019, Karimganj College, Karimganj.
  4. Participated in the International Webinar on Recent Advances of Operations Research in Natural and Social Scienced, Department of Mathematics, Lanka Mahavidyalaya, Lanka, Hojai, Assam, September,2020
  5. Participated in the Digital International Conference on Advances in Computational Methods-2020, Department of Mathematics, Gujarat University, Ahmedabad. September, 2020
  6. Participated in Virtual International Conference on Soft Computing Techniques and Cost Optimization for Inventory Modelling SCTCOIM-2020, Techno India University, West Bengal, 2020

7. Participated in International online seminar on Mathematical & Medical Modelling and Forecasting the COVID-19 Pandemic, Academy of Maritime Education and Training (AMET), Channai, May 2021

- ## Publications

1. A mathematical model to study stability of biologicalinteraction: Competition, IJMTT Vol-47, Number 3 (2017), 215-219. UGC listed Journal before May 2019

2. Bio- mathematical model on competition between two species. IJMAA Vol-5, Issue 3- A (2017), 69-83. UGC listed Journal before 2019.

3. A mathematical model to study the growth of dominant herbivores, International Journal of Scientific Research in Mathematical and Statistical Sciences, Vol. 6, No. 3, 31-34, 2019. UGC listed Journal before 2019

4. A mathematical model on chain of competition in different trophic level, International Journal of Scientific Research in Mathematical and Statistical Sciences, Vol. 6, No. 3, 91-94, 2019. UGC listed Journal before 2019

5. Non-Separable Raw Material Inventory Model with Time Dependent Deterioration: Hybrid Algorithm-International journal of Applied Mathematics and Statistics, 2021, 60(1), 68-80. Indexed in Web of Science (ESCI)

6. A Multi-Stage Model to Study Inventory Management of Raw Materials with Shortages, International Journal of Mathematics in Operational Research, 2021, 20(2), 207-238. Indexed in Scopus

7. An Inventory Model to Study the Effect of Probabilistic Carbon Emission on the Profit Earned By a Supplier-Operation Research and Decisions, 2021, 31(4), 5-33. Indexed in Scopus, Web of Science (ESCI)

8. A Multi-Item Sustainable Production Inventory Constrained Model to Study and Analyze the Effective Green Investment and Replenishment Quantity - International Journal of Mathematics in Operational Research, International Journal of Operational Research, 2022, 22(4), 528-554. Indexed in Scopus

9. A sustainable production inventory model for profit maximization under optimum raw material input rate during production-OPSEARCH, 2022, 59(2), 667-693, Indexed in UGC-CARE List, Scopus, Web of Science (ESCI), Impact Factor 1.6

10. A Production Inventory Model to Study the Supply Chain of Agri-Product for a Time Reliant Population, International Journal of Applied and Computational Mathematics, 2022, 8(3), 97. Indexed in Scopus

11. A sustainable retailer's inventory model to study the partial replacement for deteriorating items with variable shelf-life, OPSEARCH, 2022, 59(4), 1502-1521. Indexed in UGC-CARE List, Scopus, Web of Science (ESCI), Impact Factor 1.6

12. A demand and supply chain inventory management with probabilistic and time dependent price, International Journal of Operational Research, 2023, 47(1), 33-50.

Indexed in Scopus.

13. **A Sustainable Inventory Model to Study the Mixing and Bottling Plant of Single Item for Cost Minimization, Operations Research Forum, 2023, 4(4), 77. Indexed in Scopus**

14. **A Three-Warehouse Inventory Model for Deteriorating Items to Study the Effective Preservation Cost and Green Investment Under Partial Substitution, International Journal of Applied and Computational Mathematics, 2024, 10(4), 129. Indexed in Scopus**

15. **An EPQ model to study the parallel production of two items in a multistage production system, International Journal of System Assurance Engineering and Management, 2024, 1-13. Indexed in UGC-CARE List, Scopus, Web of Science (ESCI), Impact Factor 1.8**

- ## <u>Book</u>

  1. **N. Bhattacharjee, Dynamics On Topological Group: A brief study of dynamical properties on induced system, LAP LAMBERT, Academic Publisher, (2018). ISBN: 978-613-9-85880-4**

  2. **N. Bhattacharjee, Kneser's Theorem: Due to addition theorems and isoperimetric methods, LAP LAMBERT, Academic Publisher, (2018). ISBN: 978-613-9-96822-0**

- ## <u>Book Chapter</u>

  1. **N. Bhattacharjee, A note on minimal sets in a dynamical system on topological group, Recent Trends in Basic Science Researches (RTBSR: 2017), Proceedings of the UGC sponsored National seminar, S. S. College, Hailakandi, Assam, Sep. 21-23th, 160167. ISBN: 978-81-933690-0-5**

  2. **N. Bhattacharjee, N. Sen, D.K. Sharma, Decarbonization Through Production of Rhino Bricks from the Waste Plastics: EPQ Model, Springer Nature, 2022, ISBN: 978-981-19-6337-7**