



Deepak Sarma

Curriculum vitae

CONTACT INFORMATION

Assistant Professor
Department of Mathematics,
Bhattadev University,
Pathsala, Bajali, Assam, India, 781325.

Mobile: +91 7896809545/9859235681
E-mail: deepak55sarma@gmail.com

EDUCATION

Ph.D., Mathematics, 2019.

- Thesis title: *A study on some matrix functions of a graph.*
- Supervisor: Prof. Milan Nath., Department of Mathematics, Tezpur University, Assam, India.

M.Sc., Mathematics, 2014.

- 1st class 2nd position, 9.5 CGPA.
- Department of Mathematics, Gauhati University, Guwahati, Assam, India.

B.Sc., Mathematics (Major), 2012.

- 1st class 2nd position, 76.7% marks in Major with Distinction.
- B.Borooah College, Affiliated to Gauhati University, Guwahati, Assam, India.

10+2 Board, 2008.

- 1st division, 67.6% marks.
- B.Borooah College, Affiliated to AHSEC, Guwahati, Assam, India.

10th Board, 2006.

- 1st division, 79.6% marks .
- Guwahati Refinery High School, Affiliated to SEBA, Assam, India.

AWARDS AND RECOGNITIONS

- Qualified NET JRF in Mathematical Sciences held on 21st Dec, 2014.
- Qualified SLET(NE) in Mathematics held on 16th Nov, 2014.
- Qualified GATE in Mathematics held on 31st Jan, 2015.
- Best oral presentation award in Research Conclave' 18 held during 8-11 March, 2018 organized by IIT Guwahati.
- Dr. Amala Bezboruah Memorial Award 2013 for securing highest CGPA in first two semesters in M. Sc.

PROFESSIONAL
EXPERIENCE

- Assistant Professor - Department of Agril. Statistics, Assam Agricultural University, Jorhat, from 30th July, 2019 to 31st March, 2026.
Courses taken: B.Sc., M.Sc. and Ph.D.
- Assistant Professor - Department of Mathematical Sciences, Tezpur University, Assam, from 13th August, 2018 to 12th July, 2019.
Courses taught: Mathematics-I (B.tech 1st sem), Mathematics-II (B.tech 2nd sem). Numerical Analysis (B.tech 4th sem), Real analysis and basic statistics (CBCT).
- Teaching Assistant - School of Engineering, Tezpur University, Assam, from January, 2018 to June, 2018.
Course assisted: Linear algebra (B.tech 2nd sem).
- Teaching Assistant - School of Engineering, Tezpur University, Assam, from July, 2016 to December, 2016.
Course assisted: Real Analysis (B.tech 2nd sem).
- Part-time Lecturer - Department of Mathematics, Tihu College, Nalbari, Assam, from August, 2014 to October, 2014.
Courses taught: Topology (B.sc 5th sem), Group theory (B.sc 4th sem).

TECHNICAL/PROGRAMMING
SKILLS

- MATLAB
- Python
- SageMath
- Wolfram Mathematica
- C Language
- \LaTeX
- Microsoft Office

RESEARCH
PUBLICATIONS

- [1] Convex and quasiconvex functions on trees and their applications,
Linear Algebra and its Applications (ELSEVIER), 533 (2017) 210-234.
Co-authors: R.B. Bapat, D.Kalita and M.Nath
Impact Factor: **1.361**
Citation Count: **4**
- [2] Minors of Hermitian (quasi-) Laplacian matrix of a mixed graph,
Linear and Multilinear Algebra (TAYLOR & FRANCIS), 68(2020)11:2157-2169
,
DOI:doi.org/10.1080/03081087.2019.1572709
Impact Factor: **1.112**

- [3] On the maximal distance spectral radius of trees,
Discrete Mathematics, Algorithms and Applications (WORLD SCIENTIFIC),
 11(02):195025(2019).
 DOI:doi.org/10.1142/S1793830919500253
 Co-authors: S. S. Boss and M. Nath
- [4] On Pareto eigenvalue of distance matrix of a graph,
Indian Journal of Pure and Applied Mathematics , 52(4) (2021) :1021-1037
 (SPRINGER)
 DOI :10.1007/s13226-021-00104-w
 Impact Factor: **0.571**
- [5] A study on resistance matrix of graphs.
Indian Journal of Pure and Applied Mathematics, (SPRINGER), 54:299-311,
 (2023)

 DOI: 10.1007/s13226-022-00254-5
 Impact Factor: **0.572**
- [6] Forecasting Yield of Major Crops in Assam: A Time Series Approach
Journal of Scientific Research and Reports, (SCIENCE DOMAIN INTERNATIONAL) 31(6): 932-942 (2025)
 DOI: <https://doi.org/10.9734/jsrr/2025/v31i63187>
 NAAS Score: **5.17 (2025)**
- [7] On Cartesian product of matrices
Boletim da Sociedade Paranaense de Matemtica, (SOCIEDADE BRASILEIRA DE MATEMTICA) 43(1): 1-10 (2025)
 DOI: <https://doi.org/10.5269/bspm.63383>
 NAAS Score: **6.4 (2025)**

COMMUNICATED PAPERS

CONFERENCES ATTENDED/ORAL PRESENTATIONS

- [8] On the largest two and smallest six distance Pareto eigenvalues of a graph.
- Oral presentation at "International Conference on New Frontiers in Engineering, Science, Law, Management, Humanities and Social Science 2019", held during February 23-24, 2019 at Gauhati University.
 - Oral presentation at "National Seminar on Advances in Mathematical Sciences", held on December 22, 2018 at Gauhati University.
 - Oral presentation at "Research Conclave'18", held during March 8-10, 2018 at IIT Guwahati.
 - Oral presentation at "A National Conference on Engineering Mathematics", held during December 16-17, 2017 at IIT Kharagpur.
 - Oral presentation at "National Conference on Advances in Science, Engineering & Technology", held during November 10-11, 2017 at GMIT, Tezpur.

INVITED TALKS/
RESOURCE
PERSON

- Add on course "Visualizing Mathematics via MATHEMATICA and MATLAB" Organized by the Department of Mathematics, Goalpara college from 24/12/2021 to 31/12/2021.
- International Workshop on Skill Development through Impact Analysis of Emerging Data with Agricultural Technology in Population Sciences Organized by the Department of Agril. Statistics and Agril. Engineering, AAU, Jorhat from 11/03/2022 to 17/03/2022.
- Workshop on "Active Learning Using Mathematical Software Tools" Organized by the Student's Science Council, Tezpur University from 26/02/2023 to 28/02/2023.

WORKSHOPS /
SCHOOLS
ATTENDED

- Winter School training programme on "Use of Big Data Analysis in Agriculture" organized by the Department of Agricultural Statistics, College of Agriculture, University of Agricultural Sciences, Dharwad, Karnataka from 18th January to 7th February, 2024.
- Capacity Building Program for the Functionaries of Assam Agricultural University, from May 22 to May 27, 2023, organized by EDII, Ahmedabad at EDII.
- Instructional Schools for Teachers (IST) on Partial Differential Equations from November 21, 2022 to December 3, 2022, organized by IIT Bombay and TIFR, Mumbai at Tezpur University.
- Faculty Induction/Orientation Programme for "Faculty in Universities/ Colleges/ Institutes with higher education" from July 20 to August 18, 2022, organized by Teaching Learning Centre, Ramanujan College, University of Delhi.
- Short term training program for teachers on Numerical Linear Algebra & Optimization Techniques in Engineering, March 15, 2022 to March 19, 2022, organized by Department of Mathematics, NIT, Meghalaya
- Science Academies' Refresher Course on "Analysis", February 10 to March 02, 2019, organized by the Department of Mathematical Sciences, Tezpur University, Assam.
- National Workshop on Matrices and Graphs, January 2-7, 2017, organized by Department of Mathematics, Sikkim Manipal Institute of Technology, Majitar, Sikkim.
- Publishing Connect Workshop, March 5, 2016, conducted by Elsevier in association with Gauhati University, Assam.
- Annual Foundation School-I, December 1-29, 2015, organized by the Department of Mathematical Sciences, Tezpur University, Assam.

BOOK
PUBLICATION

- Editor of "EPSILON SCIENCE", 2020 published by Purbayon Publication, Jaswanta Road, Panbazar, Guwahati, Assam, India-701001, ISBN:978-93-89940-94-7

MEMBERSHIP

- Life Member of Assam Academy of Mathematics.

PERSONAL
DETAILS

- Date of birth:- 28th March, 1990.
- Gender:- Male.
- Caste:- General.
- Marital Status:-Married.
- Father's Name:- Mr. Kartik Sarma.
- Mother's Name:- Mrs. Ranjana Sarma.
- Permanent Address:- Deuripara 1st Part, BR Bylane, Azara, Near Azara Hospital, Pin: 781017, Guwahati, Assam, India.
- Language proficiency: English, Hindi, Assamese (Mother tongue).

REFERENCES
AVAILABLE TO
CONTACT

Prof. Milan Nath (e-mail: milan@tezu.ernet.in)

- Professor, Department of Mathematical Sciences, Tezpur University, 784028, Tezpur, Assam, India.
- ★ *Prof. Nath is my Ph.D supervisor.*

Prof. Hemanta Kumar Sarmah (e-mail: nsarmah@hotmail.com)

- Professor, Department of Mathematics, Gauhati University, 781014, Guwahati, Assam, India.
- ★ *Prof. Sarmah was my post graduate advisor at Gauhati University, Assam, India.*

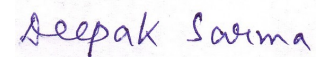
Dr. Debajit Kalita (e-mail: kdebajit@tezu.ernet.in)

- Assistant Professor, Department of Mathematical Sciences, Tezpur University, 784028, Tezpur, Assam, India.
- ★ *Dr. Kalita is one of the co-authors of one of my research papers.*

DECLARATION

I do hereby declare that all the statements made above are true to the best of my knowledge.

Place: Jorhat, Assam.
Date: April 6, 2026



(DR. DEEPAK SARMA)

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