CURRICULUM VITAE

Dr. Dimpee Baruah

Assistant Professor

Department of Mathematics

Majuli College, Kamalabari

Majuli, Assam- 785105

Designation: Assistant Professor

Institute: Majuli College, Kamalabari, Majuli, Assam, India

Joining: 15th December, 2017

Educational Qualifications:

- **Master of Science (M. Sc.) in Mathematics, 2013 –** Rank- 1, Dibrugarh University, Dibrugarh, Assam, India
- **Master of Philosophy (M. Phil.) in Mathematics, 2015 –** Dibrugarh University, Dibrugarh, Assam, India
  Topic: From Algebra to Graph Theory
- **State Eligibility Test (SET) for Lectureship, 2015**- Mathematical Science

- **Doctor of Philosophy (Ph. D.) in Mathematics, 2021-** Dibrugarh University, Dibrugarh, Assam, India
  Topic: An Investigation into Air Transportation System in India: A Complex Network Approach

Conference/ Seminar attended:

Sl. No.	Seminar Topic	National/International	Title of the paper	Year
1	Mathematics and its Application- 2016 (NCMA- 2016)	National Conference organised by Department of Mathematics, Cotton College, Guwahati, India	Structural Analysis of Airport Network of India: A Complex Network approach	21-22 October, 2016
2	Mathematical Modelling on Applied Sciences NSMMAS-2017	National Seminar sponsored by UGC under SAP DRS-II, Govt. Of India organised by Department of Mathematics, Dibrugarh University, Assam, India	Robustness Analysis of Airport Network of India: A Preliminary Study	March 14, 2017
3	Recent Trends in Theoretical and Applied Statistics-II (RTTAS-II)	National Seminar sponsored by UGC under SAP DRS-II, Govt. Of India organised by Department of Statistics, Dibrugarh University, Assam, India	A Novel Measure of Network Robustness based on Network Criticality	24-25 March, 2017.
4	Recent Trends in Theoretical and Applied Statistics-III (RTTAS-III)	National Seminar sponsored by UGC under SAP DRS-II, Govt. Of India organised by Department of Statistics, Dibrugarh University, Assam, India	A Note on Some vertex Deleted Centrality Measures	16-17 March, 2018.
5	Applied and Computational Mathematics	International Conference organized by the Department of Mathematics, Indian Institute of Technology Kharagpur during November 23-25, 2018.	Analysis of three major airline networks of India: A complex network approach	November 23-25, 2018.
6	Pattern Recognition and Machine Intelligence (PReMI)	International Conference organized by Tezpur University in collaboration	Comparison of the Airline Networks of India with ANI	December 17-20, 2019

| | | | with Machine Intelligence Unit, Indian Statistical Institute, Kolkata and Department of EEE, Indian Institute of Technology Guwahati. | Based on Network Parameters | |

Publications:

Sl. No.	Journal/Books	ISBN/ISSN	Title of the Paper	Year
1	Mathematical Modeling and Computational Tool: ICACM 2018, Springer Proceedings in Mathematics & Statistics, 320, 503-513, 2020, Springer, Singapore.	ISBN: 978-981-15-3615-1	Analysis of Three Major Airline Networks of India: A Complex Network Approach	2020
2	Lecture Notes in Computer Science, 11941, 74-81, 2019, Springer, Cham.	ISBN: 978-3-030-34869-4	Comparison of the Airline Networks of India with ANI Based on Network Parameters	2019
3	Malaya Journal of Matematik, 7(2), 223-229, 2019	ISSN: 2319-3786	On network criticality in robustness analysis of a network structure	2019
4	Research & Reviews: Discrete Mathematical Structures, 5(2), 26-33, 2018	ISSN: 2394-1979 (Online)	On Structure and Robustness of Airport Network of India	2018
5	Advanced Mathematics Theory and Applications, Vol-II, 357- 364	ISBN: 978-93-87374-33-1	Centrality Measures in Complex Network Analysis: A case study	2018
6	Annals of Pure and Applied Mathematics, 14(1), 199-205, 2017	ISSN:2279-087X	A Comparative Study of Vertex Deleted Centrality Measures	2017
7	International Journal of Mathematical Archive-8(7),	ISSN: 2229 – 5046	Comparison of Laplacian Centrality with Some Node	2017

			Centrality Measures	
8	Digital India- A Road Ahead	ISBN: 978-81-930928-0-4	Supply Chain System in E-Tailing as a Complex Network	2017
9	International Journal of Mathematics Trends and Technology (IJMTT) – Volume 48 Number 3, 180-185,	ISSN: 2231-5373	Construction of Zero Divisor Graphs of Rings	2017

Other activities:

1. Organised a one day **National Webinar** on the topic "Covid 19: Society, Education and the Road Map Ahead" on 07/08/2021. The resource person of the webinar was Anmona Bora, Retd. Vice Principal & Former HOD, Department of English, J. B. College (Autonomous).

2. Organised a one day **National Webinar** on the topic "Beginners to Professionals in Matlab" in collaboration with IQAC, Majuli College on 28/08/2020. The resource person of the webinar was Dr. Debdeep Saha, Assistant Dean (Student Affairs), GIMT, Guwahati, Advisor, Mantra Associates, Guwahati.

3. Completed **Induction Training of Faculty** during June 11 – July 10, 2019 organised by Teaching Learning Centre, Tezpur University sponsored by MHRD under PMMMNMTT Scheme.

4. **Teacher's Enrichment Workshop (TEW)** on Real Analysis, Algebra and Linear Algebra (RAALA 2019) organized by Department of Mathematics, Dibrugarh University, Assam, during September 30 to October 05, 2019 under the aegis of ATM Schools sponsored by National Center for Mathematics (NCM): a joint centre of IIT Bombay and TIFR, Mumbai.

5. **Workshop** on "The New Undergraduate Syllabus in Mathematics" organized during December 20-24, 2019 by Department of Mathematics, Dibrugarh University.

6. One-day **workshop** on "Mathematical Programming as per new UG-CBCS Curriculum organised by Department of Mathematics in association with IQAC of Dibru College, Dibrugarh on 21st February, 2020.

7. Participated in the webinar on "Can there be a theory to play a game?" organized by IQAC, Lakhimpur Girls' College in association with Gonit Sora on 12th June,2020. Speaker: Prof. Surajit Borkotokey, Dibrugarh University.

8. Participated in **Six Weeks Course** (two sessions per week) on Introduction to SageMath conducted online under the aegis of TEQIP-III in collaboration with MTTS Trust during May 20 to June 29, 2020.

9. Participated in online **Faculty Development Programme on LaTex** during 2020-06-20 to 2020-06-24 organized by North Lakhimpur College (Autonomus), funded by the National Mission on Education through ICT, MHRD, Govt. of India.

10. Participated on **Three days International Webinar** on "Recent trends in Pure and Applied Mathematics" organized by Department of Mathematics, Raghunathpur College, Raghunathpur, Purulia, West Bengal, India, held during July 9, 2020 to July 11, 2020.

11. Participated on Webinar entitled The Congruent Number Problem and Elliptic Curves delivered by Prof. Anupam Saikia (IIT Guwahati) on 12 July, 2020, organized by IQAC, Lakhimpur Girls' College and Gonit Sora.

12. Contribution as **Evaluator** at the State Level Children's Science Congress-2018, Assam held at Majuli College Assam during October 23-26, 2018 organised by Assam Science Technology and Environment Council (ASTEC), Bharat Jana Vigyan Jatha (BJVJ), Assam, Society for Socio-Economic Awareness and Environment Protection (SSEAEP), Science Trial Organisation (STO).

13. Contribution as **Evaluator** at District Level Children's Science Congress- 2019 held o 15th September, 2019 at Phulani High School organised by District organising Committee, Majuli District and Assam Science Technology and Environment Council (ASTEC).