

CURRICULUM VITÆ

ABHIGYAN MAHANTA

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Father's Name: Ranjit Kumar Mahanta

Mother's Name: Miru Mahanta

Date of birth: 02/01/1994

Permanent Address: Na-Ali Dhekiajuli, Sonari Gaon

P.O.: Na-Ali Dhekiajuli

District: Jorhat

State: Assam

Country: India

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1. Educational Qualification

- M.Sc.
- M.Phil.
- Ph.D.
- Qualified SLET, North East Region (Result declared on 24/07/2018).

Examination Passed	Passed out Institute	University/ Council/ Board	Year of Passing	Percentage/ CGPA	Division/ Class/ Grade
H.S.L.C.	Don Bosco High School, Baghchung, Jorhat	SEBA	2010	91.83	I Distinction
H.S. (Science)	Don Bosco Higher Secondary School, Baghchung, Jorhat	AHSEC	2012	81.00	I
B.Sc	Jagannath Barooah College, Jorhat	Dibrugarh University	2015	85.86	I Distinction
M.Sc	Dibrugarh University	Dibrugarh University	2017	9.20(CGPA)	I

2. Research Interests:

Topological Indices and Graph Measures, Complex Networks.

3. Publications:

Research papers/book chapters :

- (i) Mahanta, A., Bharali, A. (2018). *A Note on ABC Matrix and ABC Energy*, Advanced Mathematics: Theory and Applications, Vol 2 (Published).
- (ii) Mahanta, A., Bharali, A., Buragohain, J., (2018). *On Zagreb indices of two new operations of graphs*, Discrete Mathematics, Algorithms and Applications (Submitted).
- (iii) Bharali, A., Mahanta, A., Buragohain, J. (2018). *Four new operations of graphs and their Zagreb indices*, Arabian Journal of Mathematics (Submitted).
- (iv) Bharali, A., Mahanta, A., Buragohain, J. (2018). *On forgotten topological index and reduced Zagreb index of four new operations of graphs*, General Mathematics (University of Sibui, Romania) (Submitted).
- (v) Mahanta, A., Buragohain, J., Bharali, A. (2018). *The ISI index of edge-semitotal and total graphs and their related sums*, ICACM 2018 organized by IIT Kharagpur (Submitted).
- (vi) Mahanta, A., Buragohain, J., Bharali, A. (2018). *Reduced First Zagreb Index, Reduced Second Zagreb Index and Hyper-Zagreb Index of Four New Sums Based on Tensor Product of Graphs*, Global Journal of Engineering Science and Researches Vol 5(11), November (Published).
- (vii) Mahanta, A., Buragohain, J., Bharali, A. (2018). *F-index and F-coindex of Four New Sums Based on Tensor Product of Graphs*, IJRAR Vol 5(4), October (Published).

4. Paper Presented in National/International Seminars:

- (i) Participated and presented a paper entitled “*Zagreb indices of simple graphs based on two new graph operations*” in “**Two Days International Seminar on Recent Advances in Mathematical Sciences and their Applications (RAMSA-2018)**” organized by Department of Mathematics, Surya Sen Mahavidyalaya, Siliguri, West Bengal, India during 30-31 August, 2018.
- (ii) Participated and presented a paper entitled “*The ISI index of edge-semitotal and total graphs and their related sums*” in “**Three Days International Conference on Computational and Applied Mathematics (ICACM-2018)**” organized by Department of Mathematics, IIT Kharagpur, West Bengal, India during 23-25 November, 2018.
- (iii) Participated and presented a paper entitled “*Hyper Zagreb Index and Reduced Zagreb Index of Four New Operations of Graphs*” in “**National Seminar on Recent Trends in Theoretical and Applied Statistics-IV (RTTAS-IV)**” organized by Department of Statistics, Dibrugarh University, Assam, India during 15-16 March, 2019.
- (iv) Participated and presented a paper entitled “*The ISI index of Cartesian products related to edge-semitotal and total graphs and their related sums*” in “**International Conference on Recent Emergent Research in Mathematics and Engineering (ICERME-2019)**” organized by Department of Mathematics, NIT Agartala, Tripura, India during 17-18 May, 2019.

5. Workshop/Seminar/Camps Attended:

- (i) Attended a three-day workshop on “**International Workshop on Game Theory and Networks**” organized by the Department of Mathematics, Dibrugarh University, Dibrugarh and Queen’s Management School, Belfast, under the aegis of UKIERI from 13th September to 15th September, 2018.
- (ii) Participated as mentor in summer camps 2016 and 2017 organized by Department of Mathematics, Dibrugarh University at Sibsagar and Margherita respectively.

6. Academic Highlights:

- (i) State 18th Position in HSLC Examination.
- (ii) 1st Class 3rd Position in B.Sc Final Examination (Mathematics), Dibrugarh University.
- (iii) 1st Class 1st Position in M.Sc Final Examination (Mathematics), Dibrugarh University.

7. Languages Known (read/write/speak): Assamese, English, Hindi.

8. Personal Dossier:

Marital Status : Married
Category : General
Religion : Hinduism
Nationality : Indian

9. Co-curricular achievements:

- (i) Fellow of Sports Authority of India (2005-2007)
- (ii) 1st Position in Inter School Table Tennis Competition at Jorhat, Assam (2007).
- (iii) 1st Position (Senior group) in All Assam Talent Search Examination conducted by Rongmela-Sishubani (2008).
- (iv) 2nd Position in Inter School Quiz Competition organized by ONGC, Jorhat (2012).
- (v) Runner Up in Team Event of Inter College Table Tennis Tournament organized by Dibrugarh University Sports Board, Dibrugarh, Assam (2013).
- (vi) 1st Position in Inter- departmental Quiz Competition organized by PNGBCN, Dibrugarh University (2016).
- (vii) Runner Up in Team Event of Inter College Table Tennis Tournament organized by Dibrugarh University Sports Board, Dibrugarh, Assam (2018).

10. Self Declaration

I hereby declare that the above stated information is true to all my knowledge and belief.

Date: 21/06/2025

Place: DIBRUGARH

Signature

(Abhigyan Mahanta)