

Upakul Mahanta, Ph.D.

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Employment History

2011 - 2022		Assistant Professor, Dept. of Physics, Bhattadev University (former Bajali College).
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Associate Professor, Dept. of Physics, Bhattadev University.

Education

2022 – onwards

2018	Ph.D., Gauhati University , Guwahati Nuclear Astrophysics. Thesis title: <i>Studies on the Distribution of Elements in Metal Poor Stars in Globular Cluster</i> .
2009	M.Sc. Physics, Delhi University, Delhi
2006	B.Sc. Physics (H), Rajdhani College, Delhi
2003	12 th . Bajali College, Pathsala
2001	10 th . Bajali Higher Seconadary School, Pathsala

Publications

Journal Articles

- D. P. Mahanta, M. Medhi, and U. Mahanta, "Isotopic abundance estimation of 22Ne and 24Mg using proton capture reaction network in the extended Ne–Al chain," *J. Astrophys. Astr*, vol. 44:95, 2023.
- M. Medhi, D. P. Mahanta, and U. Mahanta, "Contribution of proton capture reactions to the abundances of phosphorus and sulfur in FGK stars," *J. Astrophys. Astr*, vol. 44, 2023.
- U. Mahanta, A. Goswami, H. L. Duorah, and K. Duorah, "Contribution of proton capture reactions to the ascertained abundance of fluorine in the evolved stars of globular cluster M4, M22, 47 Tuc and NGC 6397," *J. Astrophys. Astr*, vol. 38, 2017.
 - U. Mahanta, A. Goswami, H. L. Duorah, and K. Duorah, "P-capture reaction cycles in rotating massive stars and their impact on elemental abundances in Globular Cluster stars: A case study of O, Na and Al," *Research in Astron. Astrophys*, vol. 17, 2017.
- 5 U. Mahanta, D. Karinkuzhi, A. Goswami, and K. Duorah, "Abundance analysis of s-process enhanced barium stars," *MNRAS*, vol. 463, 2016.

Books and Chapters

- U. Mahanta, *Emerging Trends in Physical Science : Extreme Helium (EHe) stars,* B. Choudhury, S. K. Sarma, and D. P. Mahanta, Eds. Research and Innovation Cell, ARBA, Pathsala, PIN-781325, 2024, ISBN: 978-93-90706-80-8.
- B. Choudhury and U. Mahanta, *Spectrum : An approach for identification of cloud type from Lidar echogram*, K. K. Sarmah, Ed. Research and Innovation Cell, BBK College, Nagaon, Barpeta, PIN-781311, 2023, ISBN: 978-81-954457-2-1.
- M. K. Mishra and U. Mahanta, *Plasma : Role in Sterilization and Medical Waste management, Climate change and Sustainable Management of Natural resourcess,* M. Rabha and P. Barman, Eds. Purbayan Publisher, Satmile, Guwahati-14, 2018, ISBN: 978-93-87263-90-1.

Refresher

03/07/2015-30/07/2015	UGC sponsored 100th orientation program , ASC, University of Burdwan, Burdwan
24/09/2018–14/10/2018	UGC sponsored Inter Disciplinary Refresher Course on Environmental Studies -IDC, HRDC, Gauhati University, Guwahati
27/12/2022-03/01/2023	UGC sponsored Online FDP on Open Source for Research , Rmanujan College, Delhi University, Delhi

Skills

- Academic advisement
- Curriculum design
- Online teaching
- Class organisation
- Educational leadership
- Faculty communication
- Institutional Management
- Examination works

Miscellaneous Experience

Institutional Managements

- **Coordinator**, IQAC, Bhattadev University.
- **Coordinator**, Ph.D. Coursework
- Coordinator, National Knowledge Network (NKN).
- **Convenor**, Committee for Institutional Development Plan.
- Convenor, Amateur Astronomical Society, Bhattadev University (formerly Bajali College).
- **Convenor**, Ph.D. Admission Entrance Committee.
- **Nodal Officer** of PFMS training DBT Mode
- **Nodal Officer, Checker**, SFMP
- Assistant Returning Officer, Checker, Bhattadev UNiversity Studets' Union election, 2024
- Member, RUSA Project Monitoring Unit

Memberships

- Life Member, Indian Association of Physics Teachers.
- Life Member, Assam Physical Society.
- Life Member, Assam Science Society.
- Member, Editorial Board of the Book 'Plasma: Role in Sterilization and Medical Waste Management.
- Member, Board of Studies, Department of Physics, Bhattadev University.
- Member, Extension Education Cell, Bhattadev University (formerly Bajali College).
- Member, e-waste management committee, Bhattadev University (formerly Bajali College).
- Member, Research Promotional Committee, Bhattadev University (formerly Bajali College).
- Member, School Management and Development Committee, Bajali Higher Secondary School.
- Member, Registration Committee 62nd Annual Conferrence of ACTA

Miscellaneous Experience (continued)

- Member, Venue Arrangement Committee "Principals' meet", Bhattadev University (formerly Bajali College).
- Member, Environmental Conservation & Green Audit Committee, Bhattadev University (formerly Bajali College).
- Assistant General Secretary, Assam Physical Society.
- Joint Secretary Volunteer Committee Inter College Kabaddi Tounament

Academic Presentations

- 39th COSPAR Scientific Asseembly 2012, 07/14/12 07/22/12, Mysore
- NC-HEPC 2013, 02/12/13 02/14/13, Gauhati University
- UGC sponsored National seminar on Plasma Science & Technology, 11/06/13 11/07/13, Nabajyoti College, Kalgachia
- 67th annual technical session of Assam Science Society cun National seminar on Current developments in science and technology, o6/04/23, Bhattadev University, Pathsala

Invited Speakers/Resource Person

- **Resource Person** at Orientation programme on Transit of Venus, 06/06/12
- Resource Person at High School Teachers' Training Camp on Science and Mathematics, 11/16/15 11/18/15
- **Resource Person** at Departmental seminar at B.B.K. college, Nagaon, 02/25/16
- **Resource Person** of NET/SET coaching programme, 22-23 Nov. 2016
- Resource Person at National Science Day at BH College, Howly, 2023
- **Resource Person** at National Science Day at GLC College, Barpeta road, 2023
- Resource Person at National Science Day at Bajali Teachers' Training Center, Patacharkuchi, 2023
- Resource Person at National Science Day at Nalbari Science Center and Planetarium, Nalbari, 2023
- Resource Person at National Space Day at Bhattadev University, Pathsala, 2024
- **Invited speaker** in Science Seminar at Anundoram Borooah Academy Degree College, 2022

Academic Participations

- Introductory **workshop** on Astronomy and Astrophysics, 12/15/10 12/17/10
- Advanced workshop on X-ray Astronomy, 03/03/11 03/07/11, Tezpur University
- RwoFoT-11, 12/23/11 12/24/11, Nalbari College
- National Orientation **workshop**, 05/07/12 05/09/12, Guwahati Planetarium
- National Level **workshop** on Rashtriya Uchchatar Shiksha Abhiyan, 06/30/14
- Workshop on ISON, Comet of the Century!, 11/10/13 11/11/13
- Workshop on Remote Sensing Techniques in the Exploration of Atmosphere and near Earth Environment, 11/14/13 11/15/13
- UGC-SAP sponsored **national seminar**, 05/11/12, Gauhati University
- **National seminar** on Emerging Trends in Chemistry & Technology, 06/27/13 06/28/13
- national seminar on Advances in Electronics and Allied Science & Technology, 08/01/13 08/03/13
- national seminar on Advances in Electronics and Allied Sciences & technology, 12/27/14 12/30/14
- CPP-IPR Silver Jubilee **symposium**, 04/21/16 04/22/16
- National **Conference** on Plasma Science and Technology, 11/06/13 11/07/13

Organisations

Joint Secretary, Inter College Youth Festival, Zonal 2015-16, 09/08/16 - 09/09/16, Bajali College

Miscellaneous Experience (continued)

- Joint Secretary, 67th Annual Technical session of Assam Science Society cum National Seminar on Current Developments in Science and Technology, 2023
- **Organiser**, Celebration of centennial year of Einstein's General theory of Relativity, 03/14/16
- **Organiser**, One day workshop on Comet ISON, 11/19/13
- **Organiser**, Annual PANE Lecture, 31/03/2018
- Coordinator, first round venue on workshop cum championship at Shaastra event IIT-Madras, Bhattadev University, 25-26 Oct. 2019

Languages

- **Assamese** (Proficient)
- **Hindi** (Proficient)
- **English** (Proficient)

Hobbies

Playing Cricket, Badminton, Table Tennis

Summary

With a robust background at Bhattadev University, I excel in curriculum design and educational leadership, evidenced by my roles in institutional management and academic advisement. My proactive involvement in faculty communication and dedication to advancing educational standards showcases a unique blend of hard and soft skills vital for academic excellence.

References

Available on Request

Date :

Signature