

CURRICULUM VITAE

Name: Dr Achintya Kumar Chatterjee

Designation: Associate Professor (Retd.), Malda College, Malda

and

Professor (Honorary), Indian Centre for Space Physics, Kolkata.

E-mail : akcmalda@gmail.com

Academic qualification : M. Sc., B.Ed., PhD

Teaching Experience: 43 years (1980-2023)

Research Interests: Astrophysics, Ionospheric Physics, Molecular Physics.

Position held:

- i) NBU UG Board of Studies (Physics) Member – 1988 – 1996
- ii) NBU PG Board of Studies (Physics) Member – 1997 – 2000
- iii) GBU UG Board of Studies (Physics) Member – 2008 – 2012
- iv) GBU UG Board of Studies (Physics) Chairman – 2012-2014
- v) GBU UG Board of Studies (Physics) Member – 2014 – 2021.
- vi) GBU UG Board of Studies (ENVS) Member – 2014 – 31.01.2023.
- vii) “Samagra Shiksha Abhiyan-2019”, Malda – Member,
Educationist nominated by District Magistrate, Malda.
- viii) Malda College Governing Body Member – 1996 – 2000.
- ix) Member of Managing Committee – Rama Krishna Vivekananda
Vidya Mandir, Malda, 2003 - 2008

University Nominee (Subject Expert) for Promotion of teachers (CAS):

Number of teachers of different colleges - **07**

M.Phil. Dissertation Supervisor: Number of scholars - **02**

Number of Books written (Honours level) – 02

Number of Books edited – 02

International Seminar and Workshops attended:

- i) “Tenth Mathematics Conference”, November 25-28, 1995
Bangladesh Mathematical Society, **University of Dhaka, Bangladesh.**
- ii) The International conference at Kolkata on “Observational evidence for Black hole in the Universe” February 10 – 17, 2008.
S N Bose National Centre for Basic Sciences, Kolkata.
- iii) First International Conference on Very Low Frequency Waves: Theory and Observations (VELFRATO – 10) March 13-18, 2010, SNBNCBS, Kolkata.
- iv) International Seminar on Environmental Crisis: February - 14, 2020.
Invited Speaker, Manikchak College, Malda.

National level /College level Seminar / Workshops attended:

- i) *"VISITORS PROGRAMME" June 14-17, 2000, CRYSTAL GROWTH CENTRE – Anna University, Chennai.*
- ii) ***"1st ASTROSAT WORKSHOP ON PULSAR ASTROPHYSICS"**
February 11-17, 2002. Tata Institute of Fundamental Research (TIFR), Mumbai.*
- iii) *Basic Workshop: SUN and STARS - St. Xavier's College, Kolkata 21 – 23, November 2005.*
- iv) Raiganj University College – "Mysterious Black Hole" - 28.03.2008. Association with IUCAA Reference Centre, Physics Department NBU.
- v) Advance workshop on Astronomy and Astrophysics – Organized by IUCAA at NBU – April 5 – 9, 2010.
- vi) Chairperson Gour Mahavidyalaya - "Biodiversity Seminar" (UGC Sponsored)
- vii) History of Science, Dept of History Malda College – Chair Person (2011)
- viii) National Seminar on "Current Trends in Computational Physics" - UGB 17.05.2015 (Member Organizing committee)
- ix) 22nd West Bengal State Science and Technology Congress – 28.02.2015 – 1.3.2015 –Poster Presentation – "Direct evidence of class transition of GRO J1655-40 during the 2005 outburst."
- x) One day State Level Seminar – Invited Speaker – Raiganj University – 3.3.2016. "Black Hole – Source of Gravitational Wave"
- xi) One day State Level Seminar – University of Gour Banga – 5.3.2016. "Gravitational Wave"
- xii) One day State Level Seminar – Invited Speaker – Kaliyaganj College – 21.09.2016. *"Recent trends in Physics: "Astrophysics- Elementary Ideas"*
- xiii) West Bengal State Science and Technology Congress (Jalpaiguri Region)– November 7- 8, 2016
- xiv) *National Seminar – Invited Speaker – Raiganj University – 14.03.2017. 'Current Trend in Physics' – " Anomalous behaviour of Ionosphere due to Solar Flare and Earthquake"*
- xv) National Seminar – Invited Speaker – Dr Meghnad Saha College, Itahar – 18.03.2019. 'Current Trend in Physical Science'
- xvi) National Seminar – Invited Speaker – Gangarampur College – 19.03.2019. 'Recent Trend in Science'
- xvii) National Level Webinar- "Contemporary Trends in Physical Science" at Dr Meghnad Saha College, Itahar - Chair Person in Technical session.

Other Academic Works:

- i) Gani Khan Choudhuri Institute of Engineering & Technology (Govt of India):
Member of selection committee for faculty.
- ii) Gani Khan Choudhuri Institute of Engineering & Technology (Govt of India) : Expert member – Workshop on curriculum for Degree Programme (B.Tech) of GKCIET.
- iii) Delhi Public School, NTPC, Farakka : Interview board as subject expert.
- iv) Sikkim Manipal Institute of Technology: Examiner - M.Sc. (Physics) project work.
- v) Hon'ble Vice Chancellor nominee (Subject expert) for selection of Assistant Professor in different B.Ed Colleges and Guest / Part time Lecturer for different Degree Colleges.
- vi) Examiner and interview board member of School Service Commission, Malda.
- vii) Interview subject expert Farakka Barrage Project School for Teachers.
- viii) Observer IGNOU examination December 2016 – Govt T T college, Malda.
- ix) Observer B Ed examination under W B Education University - December -2017.
- x) Observer IGNOU examination June 2018 – Govt T T college, Malda.
- xi) Observer B Ed examination under W B Education University- December -2018.

Publications in Refereed Journals:

1. "Unusual behaviour of VLF signal parameters before the devastating Nepal earthquake of 25th April, 2015" - A K Choudhury, S K Chakrabarti, Md W Bari and **A K Chatterjee**: Indian J Phys, <https://doi.org/10.1007/s12648-025-03656-3>
2. "Spectral Class Transition of GRO J1655-40 during 2005 outburst in the Light of TCAF Model": Md Washimul Baria & **Achintya Kumar Chatterjee** – IJPAP, Vol. 62, August 2024, pp. 689-699.
3. "Monitoring of sudden ionospheric disturbances with very low frequency signal by ICSP Malda Branch": A.K. Choudhury and **A.K. Chatterjee** - Ind. J. Mul. Acad. Res. 1(2014) 31 – 37.
4. "Class transition during 2008 outburst of 4U 1630-47" - Md. Washimul Bari and **Achintya K Chatterjee** Indian Journal of Physics (April 2013) 87:309-315.
5. "Anomalous Behaviour of D-Layer Formation Time of the Ionosphere due to Earthquake": **Achintya K. Chatterjee**, Md. Washimul Bari, Asit K. Choudhury, Indian Journal of Radio & Space Physics, 38, June 2009, 138-142.
6. "Class transitions of compact objects Cygnus X-1 and Cygnus X-3" – **Achintya K Chatterjee**, Md. Washimul Bari, Asit K Choudhury: Indian J. Phys. 82(11), 1429-1440 (2008).
7. "Different types of class transitions of GRS 1915+105 using IXAE data" - Asit K Choudhury, **Achintya K Chatterjee**, Anuj Nandi: Bull. Astr. Soc. India (2007) 35, 41 – 52.

8. "Class transitions and two component accretion flow in GRS 1915+105" – S K Chakrabarti, A Nandi, **A K Chatterjee**, A K Choudhury and U Chatterjee: A & A 431, 825 – 830 (2005).
9. "Monitoring of Sudden Ionospheric Disturbances (SID) from Kolkata (India)" – Sandip K Chakrabarti, K Acharya, B Bose, S Mandal, **A Chatterjee**, N Nandi, S Pal and R Khan. Indian J. Phys, 77B (2), 173 – 175 (2003)
10. "Estimation of Column Calibration Factor and Force Parameters to Predict Temperature Dependence of Thermal Diffusion Factor of Some Simple Molecules" – G Dasgupta, N Ghosh, N Nandi, **A K Chatterjee** and S Acharyya: Journal of Physical Society of Japan. Vol.65, No. 8, August, 1996, pp. 2506 –2513.
11. "Electrical Conductivity Anomaly in Binary Liquid Mixtures near the Critical Point" – **Achintya Kr. Chatterjee**, Dipen Lahiri and Robin Ghosh: Jpn. J. Appl. Phys. Vol. 31 (1992) pp. 2151-2154 Part 1, No. 7, July 1992.
12. "Dipole moments of associated binary solutes in benzene from ultrahigh frequency conductivities of solutions" - **A K Chatterjee**, U Saha, N Nandi, R C Basak And S Acharyya Indian J. Phys. 66B (3), 291-302 (1992).
13. "Energy of activation, dipole moment and correlation parameter of water" - R Ghosh & **A K Chatterjee**: Indian Journal of Pure & Applied Physics, Vol. 29, September 1991, pp 650 - 652.
14. "The Role of Column Calibration Factor in the Study of Temperature Dependence of Thermal Diffusion Factor of Hydrogenic Trace Mixtures with Helium" - S Acharyya, I L Saha A K Datta and **A K Chatterjee**: Journal of Physical Society of Japan. Vol. 56, No. 1, January 1987, pp. 105 - 114.
15. "Composition Dependence and Inversion of αT of N₂ – CO Gas Mixture" - I L Saha A K Datta, **A K Chatterjee** and S Acharyya: Journal of Physical Society of Japan. Vol. 56, No. 7, July 1987, pp. 2381- 2386.
16. "Ultra High Frequency Conductivity of Polar-Nonpolar Liquid Mixtures" - C R Acharyya, **A K Chatterjee**, P K Sanyal & S Acharyya: Indian Journal of Pure & Applied Physics, Vol. 24, May 1986, pp. 234-238.
17. "Microwave Conductivity & Dipole Moment of Substituted Benzenes" - S Acharyya and **A K Chatterjee**: Indian Journal of Pure & Applied Physics, Vol. 23, September 1985, pp. 484-486.
18. "Microwave conductivity and dipole moment of polar dielectrics" - S Acharyya, **A K Chatterjee**, P Acharyya and I L Saha : Indian J. Phys, 56B, 291-299 (1982).

Publications in Journal Proceedings:

1. "Live Coverage of Class Transitions in the Nano Quasar GRS 1915+105" - A. K. Choudhury, **A. K. Chatterjee**, W. Bari and S. K. Chakrabarti: Proceedings of the 2nd Kolkata Conference on the "Observational Evidence for Black Holes in the Universe" 2008, Organized by SBNBCBS Kolkata. American Institute of Physics (AIP) Conference Proceedings - 1053.P161.
2. "ICSP VLF observation of GRB090424 from Four receivers" - Sandip K Chakrabarti, Sushanta Mondal, Asit Choudhury, **Achintya Chatterjee**, Narendra N Patra and D Bhowmick: TITLE: GCN CIRCULAR NUMBER: 9316 Date:2009.05.01,13:25: GMT.

3. "Detection of Sudden Ionospheric Disturbances Due to Solar Flares by Monitoring the Very Low Frequency Signal at Malda" - N Nandy, **Achintya K Chatterjee**, Md W Bari and A K Choudhury. Proceedings of the 1st International Conference on Science with Very Low Frequency Radio Waves: Theory and Observations (VELFRATO-10), 2010. American Institute of Physics (AIP) Conference Proceedings - 1286. Page No. 205.
4. "Anomalous Behaviour of D – Layer Preparation Time of the Ionosphere Due to Earthquakes as observed from Malda (India)" - **Achintya K Chatterjee**, N Nandy, Md W Bari and A K Choudhury: Proceedings of the 1st International Conference on Science with Very Low Frequency Radio Waves: Theory and Observations (VELFRATO-10), 2010. American Institute of Physics (AIP) Conference Proceedings - 1286. Page No. 291.
5. "Comparison of ICSP VLF observation of GRB 090424 with satellite observations". Sushanta K. Mondal (ICSP), Sandip K. Chakrabarti (S. N. Bose Centre and ICSP): Asit Choudhury (ICSP, Malda branch), **Achintya Chatterjee** (ICSP, Malda Branch), and D. Bhowmick (ICSP) –TITLE: GCN CIRCULAR NUMBER: 11883 Date: 2011/04/05 11:09:52 GMT.
6. "Direct evidence of class transition of GRO J1655-40 during the 2005 outburst": W Bari and **A K Chatterjee** - 22nd West Bengal State Science and Technology Congress (NBU)– 28.02.2015, Abstract Page No. – Phy – 20
7. "Study of class transition of light curves of different compact objects": W Bari, **A K Chatterjee** – 1st Regional (Jalpaiguri) West Bengal State Science and Technology Congress – 7.11.2016, Abstract Page No. – Phy – 92
8. "Association of some polar liquids in non-polar solvent" - **Chatterjee A K** Proceedings of Tenth Mathematics Conference, November 25-27, 1995. Bangladesh Mathematical Society, **University of Dhaka**, Bangladesh.
9. "Direct Evidence of Class Transitions of the Microquasar GRS 1915+105 Using RXTE Data" – Wasimul Bari and **Achintya Kumar Chatterjee** - 7th Regional (Malda College) West Bengal State Science and Technology Congress – 7-8 January 2025 – Phy - 44