

Curriculum Vitae



- ❖ **Name:** BIKRAM GHOSH
- ❖ **Affiliation:** State Aided College Teacher (Category-1), Dept. Of Mathematics, Naba Barrackpur Prafulla Chandra Mahavidyalaya, New Barrackpur, Kolkata-700131
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- ❖ **Email-id:** bikramghosh13@gmail.com
- ❖ **Highest Qualification:** Ph.D in Mathematics (March, 2023)

❖ Achievements

1. Qualified **CSIR-UGC NET-JRF 2019 (JUNE)** in MATHEMATICAL SCIENCE.
2. Qualified **WB-SET 2018 (December)** in MAHEMATICAL SCIENCES.
3. Recipients of **INSPIRE SCHOLARSHIP** from 1st year of B.Sc. in Mathematics, 2013 up to 2nd year of M.Sc. in Mathematics, 2018.
4. Awarded under Scheme of Scholarship for **College & University Student reg. of Government of India** on the basis result of Higher Secondary Examination held by W.B. Council of H.S. Education in 2013

❖ Fields of Interests

1. **General Relativity and Cosmology**
2. **Ordinary Differential Equation and Partial Differential Equation.**
3. **Tensor Calculus and Differential Geometry.**
4. **Real Analysis**

❖ Publications

- **Bikram Ghosh, Saugata Mitra and Subenoy Chakraborty**, “Some specific wormhole solutions in $f(R)$ modified gravity theor ”, published in **Modern Physics Letters A**, Vol. 36, No. 5 (2021) 2150024
[arXiv:2108.04672](https://arxiv.org/abs/2108.04672)
DOI: 10.1142/S0217732321500243

- **Bikram Ghosh**, Sourav Dutta, Sudeshna Mukerji and Subenoy Chakraborty, “Static spherically symmetric wormhole with quadratic shape function and particle trajectories around it”, published in **International Journal of Modern Physics A**, Vol. 36, No. 06 (2021) 2150046
[arXiv:2112.00338](#)
DOI: 10.1142/S0217751X21500469
- **Bikram Ghosh** and Saugata Mitra, “Wormhole solutions in $f(R)$ gravity theory for Chaplygin gas scenario”, published in **International Journal of Modern Physics A**, Vol. 36, No. 18 (2021) 2150119
[arXiv:2108.12670](#)
DOI: 10.1142/S0217751X21501190
- **Bikram Ghosh** and Saugata Mitra, “A new shape function and some specific wormhole solutions in braneworld scenario”, published in **Modern Physics Letters A**, Vol. 36, No. 23 (2021) 2150167
[arXiv:2109.03885](#)
DOI: 10.1142/S0217732321501674
- **Bikram Ghosh** and Saugata Mitra, “Wormhole generating function in $f(R, T)$ gravity, published in **International Journal of Modern Physics A**, Vol. 37, No. 34 (2022) 2250207
[arXiv:2211.12932](#)
DOI: 10.1142/S0217751X22502074

❖ Project Area and Non-Credit Courses

1. In 2nd year of M.Sc., I did a project on ‘ **Special Theory of Relativity** ’ under the supervision of Prof. Subenoy Chakraborty, Professor of Department of Mathematics, Jadavpur University, Kolkata.
2. Attended a non-credit course ‘ **Harmonic Analysis** ’ taught by Br. Amit, Monastic Faculty, Dept. of Mathematics, Ramakrishna Mission Vidyamandira, Belurmath, Howrah, 711202.
3. Attended a course on ‘ **Wormhole Theory** ’ taught by Dr. Subenoy Chakraborty, Professor of Department of Mathematics, Jadavpur University, Kolkata.

❖ Computer Skill

1. Language known : **C, MATLAB**
2. Mathematical Software known: **Maple, Mathematica**
3. Document Preparation Software known: **LaTeX**

❖ Teaching Experience

- **Guest Lecturer** in Mathematics, Dept. of Mathematics, Naba Barrackpur Prafulla Chandra Mahavidyalaya (24.07.2018-31.12.2019).
- **State Aided College Teacher (Category-1)** in Mathematics, Dept. of Mathematics, Naba Barrackpur Prafulla Chandra Mahavidyalaya (01.01.2020-till now).

❖ Academic Records

- **2023 (March)-Ph.D in Mathematics** from Ramakrishna Mission Vidyamandira.
- **2018 - M.Sc. (in Mathematics)**
Specialisation : Differential Manifolds and Classical Mechanics.
Institute : Ramakrishna Mission Vidyamandira.
University : Calcutta University.
- **2016 - B.Sc (Hons. in Mathematics)**
Institute : Krishnath College.
University : Kalyani University.
- **2013 - Higher Secondary(10+2 Standard)**
School : Debagram Sivram Anandamayee Vidyapith.
Board : West Bengal Council of Higher Secondary Education.
- **2011 - Madhyamik Pariksha(10 Standard)**
School : Debagram Sivram Anandamayee Vidyapith.
Board : West Bengal Board of Secondary Education.

Date:

Place:

Bikram Ghosh