

FACULTY MEMBERS' ACADEMIC PROFILE

1. Name of the Faculty member: AMIT SINGHA ROY

2. Designation: ASSISTANT PROFESSOR IN PHYSICS

3. Qualification:

I. B.SC. IN 2005 [1ST CLASS **9TH**] FROM **RAMKRISHNA MISSION VIDYAMANDIR, BELUR** AFFILIATED TO **C.U.**

II. M.SC. IN 2007 [DEPARTMENTAL TOPPER AS WELL AS INSTITUTIONAL TOPPER AMONG ALL P. G.(LATERAL ENTRY) DEPARTMENTS] FROM **IIT KHARAGPUR.**

III. JRF-NET (DEC-2006)-(RANKED WITHIN TOP 20%), GOT CALLED FOR S.P.M. FELLOWSHIP EXAM.

IV. SET-2008

V. QUALIFIED GATE, TIFR, JEST

VI. PURSUING RESEARCH FROM **W.B.S.U.** IN THEORETICAL PHYSICS (IN GRAVITATION & COSMOLOGY)

4. Specialization: NONE

5. E-mail address: SINGHAROYAMIT9141@YAHOO.COM

6. Date of Joining in W.B.E.S.: 29.5.2009

7. Date of Joining in this College: 20.1.2026

8. Total Teaching experience in College level: 16+ YEARS

9. Research interests: GRAVITATION & COSMOLOGY

10. Title of thesis (Ph.D.) with year: N.A.

11. Research guidance: N.A.

12. Research Projects (Completed and ongoing): N.A.

13. List of publications: Published papers in Journals:

1. The role of potential in the ghost-condensate dark energy model, G. Bhattacharya, P.Mukherjee, **A. Singha Roy**, A. Saha, Eur.Phys.J. C75 (2015) no.2, 84 .

2. Non-minimally coupled quintessence dark energy model with a cubic galileon term : a dynamical system analysis, S. Bhattacharya, P. Mukherjee, **A. Singha Roy**, A. Saha, Eur.Phys.J. C78 (2018) no.3, 201 .



3. A field theoretic approach to the energy-momentum-tensor for theories coupled with gravity, P. Mukherjee, A. Saha, **A. Singha Roy**, Mod.Phys.Lett. A33 (2018) no.02,1850010.
4. Energy momentum tensor of a non-minimally coupled scalar from the equivalence of the Einstein and Jordan frames , Sk. Moinuddin, P. Mukherjee, A. Saha, **A. Singha Roy**, Eur. Phys. J. C (2023) 83:446.

A)

B) Conference Proceedings:

14.Membership of Learned Societies/ Editorial Boards, etc.: N.A.

15.Patents: N.A.

16.Awards: N.A.

Other notable activities: N. A.

17. A) Participation in Seminars/Symposia/Conferences/Workshops:

I. Participated and presented a poster titled “A field theoretic approach to the energy momentum tensor for theories coupled with gravity” in **XXIV DAE-BRNS Symposium on High Energy Physics** held online by the National Institute of Science Education and Research , Jatni, 752050, Odisha, India during December 14-18, 2020.

II. Presented a paper titled “ Energy momentum tensor of a non-minimally coupled scalar from the equivalence of the Einstein and Jordan frames” at the **International Conference on Frontiers in Science: An Integrative Approach in Solving Global Challenges (ICFS-2025)** held during 10th & 11th September, 2025, organized by Krishnagar Government College.

B) Participation in OP/RC: RC in 2020(12.2.20-25.2.20) from B.U.