



Name: Shuvendu Chakraborty

Designation: Associate Professor

Qualifications: MSc., MBA, Ph. D

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Biographical Sketch

- Over 20 years of teaching experience in Mathematics and Statistics.

ACADEMIC BACKGROUND:

- PhD from IEST, Shibpur
- MBA from Sikkim Manipal University
- M.Sc. From IEST, Shibpur
- B.Sc. from Calcutta University

Areas of Specialisation and Research

- Operation research, Statistical Computing, Astro statistics, Multivariate Analysis.
- **Associateship:** Visiting Associate of IUCAA, Pune, India for 6 years (2011-1016).
- **PhD. Guidance: Degree Received (01) Ongoing (04)**

Teaching Experience

- Worked as Associate Professor at HALDIA INSTITUTE OF TECHNOLOGY
- Worked as Vice Principal at SEACOM ENGINEERING COLLEGE
- Worked as Visiting Faculty (Department of MBA) at UNIVERSITY OF CALCUTTA

Administrative Responsibility

- Acted as Director, IQAC, St. Xavier's University Kolkata
- Professor In Charge, AICTE, St. Xavier's University Kolkata
- Acted as Vice principal & Head of Department of Mathematics in Seacom Engineering College.
- Spearheaded as Officer-In-Charge of MAKAUT semester examination 2007-2008, supervisor of WBJEEM AIEEE examination 2014, and Examination Cell Member of MAKAUT Semester examination 2006 to 2015.
- Departmental coordinator at Haldia Institute of Technology.
- Hostel Superintendent at Haldia institute of technology.
- Member of NAAC, NBA documentation committee at Haldia Institute of Technology.

Book(s) Authored:

- (2011) **“Theory Behind the Present Accelerating Universe”** (Shuvendu Chakraborty), Lambert Academic Publishing, Germany, ISBN: 978-3- 8465-4064-0.

Article published in Peer-reviewed journals:

- (2009) **“Effect of modified Chaplygin gas in Anisotropic Universe”**, Astrophysics and Space Science, (Shuvendu Chakraborty, Ujjal Debnath), Vol. 321 (1), Pp. 53-56, and ISSN: 1572- 946X.
- (2010) **“Higher Dimensional Cosmology with Normal Scalar Field and Tachyonic Field”**, International Journal of Theoretical Physics, (S Chakraborty, U Debnath), Vol. 49 (8), Pp. 1693- 1698. ISSN: 1572-9575.
- (2010) **“The Role of a Chameleon Field in an Anisotropic Universe with Logamediate and Intermediate Scenarios”**, International Journal of Modern Physics A, (S Chakraborty, U Debnath), Vol. 25 (24), Pp. 4691-4701. ISSN: 1793-656X.
- (2010) **“A Anisotropic Universe with Hesse Dark Energy”** International Journal of Modern Physics D, (S Chakraborty, U Debnath), Vol. 19 (13), Pp. 2071-2078. ISSN: 1793-6594.
- (2011) **“An Emergent Scenario in Anisotropic Universe”** International Journal of Theoretical Physics, (S Chakraborty, U Debnath), Vol. 50 (1), Pp. 80-87. ISSN: 1572-9575.
- (2011) **“Brans-Dicke Theory in an Anisotropic Model with a Viscous Fluid”** Gravitation and Cosmology, (S Chakraborty, U Debnath), Vol.17 (3) Pp. 280-283. ISSN: 202-2893.
- (2011) **“Correspondence between Electro-Magnetic Field and other Dark Energies in Non- linear Electrodynamics”** International Journal of Modern Physics D, (Sayani Maity, U Debnath, S Chakraborty) Vol.20 (12) Pp. 2337–2350. ISSN: 1793-6594.
- (2011) **“Dilaton Dark Energy Model in $f(R)$, $f(T)$ and Horava-Lifshitz gravities”** International Journal of Theoretical Physics, (PB Khatua, S Chakraborty, U Debnath) Vol. 51 (2), Pp. 405-417. ISSN: 1572-9575.
- (2012) **“The Effects of Tachyonic and Phantom Fields in the Intermediate and Logamediate Scenarios of the Anisotropic Universe”** International Journal of Theoretical Physics, (S Chakraborty, U Debnath), Vol. 51(4), Pp. 1224–1238. ISSN: 1572-9575.
- (2012) **“Role of Chameleon Field in presence of Variable Modified Chaplygin gas in Brans- Dicke Theory”** Canadian Journal of Physics, (S Chakraborty, U Debnath) Vol. 90 (2), Pp. 131-135. ISSN: 1208-6045.

- (2012) **“Higher Dimensional Cosmology with Some Dark Energy Models in Emergent, Logamediate and Intermediate Scenarios of the Universe”** International Journal of Theoretical Physics, (C Ranjit, S Chakraborty, U Debnath) Vol. 51(7), Pp. 2180-2207. ISSN: 1572-9575.
- (2012) **“Statefinder Parameters for Different Dark Energy Models with Variable G Correction in Kaluza- Klein Cosmology”** International Journal of Theoretical Physics, (S Chakraborty, U Debnath, M Jamil, R Myrzakulov) Vol. 51(7), Pp. 2246-2255. ISSN: 1572-9575.
- (2012) **“Variable G Correction for Dark Energy Model in Higher Dimensional Cosmology”** Canadian Journal of Physics, (S Chakraborty, U Debnath, M Jamil) Vol. 90 (4), Pp. 365-371. ISSN: 1208-6045.

- (2012) **“Observational Constraints of Modified Chaplygin Gas in Loop Quantum Cosmology”** European Physical Journal C, (S Chakraborty, U Debnath, and C Ranjit) Vol. 72(8), Pp. 2101. ISSN: 1434-6052.
- (2013) **“Role of Entropy-Corrected New Agegraphic Dark Energy in Horava- Lifshitz Gravity”** International Journal of Theoretical Physics, (PB Khatua, S Chakraborty, U Debnath), Vol. 52(2). Pp. 2654-667. ISSN: 1572-9575.
- (2013) **“Variable Modified Chaplygin Gas in Anisotropic Universe with Kaluza-Klein Metric”** International Journal of Theoretical Physics, (C Ranjit, S Chakraborty, U Debnath), Vol. 52(3), Pp. 2654–667. ISSN: 1572-9575.
- (2013) **“Observational Study of Higher Dimensional Magnetic Universe in Nonlinear Electrodynamics”** Astrophysics Space science, (C Ranjit, S Chakraborty, U Debnath) Vol. 346(1), Pp. 291-299. ISSN: 1572-946X.
- (2013) **“Dynamical System Analysis for Anisotropic Universe in Brans-Dicke Theory”** International Journal of Theoretical Physics, (J Bhadra, S Chakraborty, U Debnath) Vol. 52(9), Pp. 3353–3365. ISSN: 1572-9575.
- (2013) **“Observational Constraints of Homogeneous Higher Dimensional Cosmology with Modified Chaplygin Gas”** European Physical Journal – Plus, (S Chakraborty, U Debnath, C Ranjit) Vol. 128(5) Pp., 53- 61, ISSN: 2190-5444.
- (2021) **“Reconstructions of gravity from type ordinary and entropy-corrected holographic and Pilgrim dark energy models”** International Journal of Modern Physics A (R Ghosh, U Debnath, S Chakraborty) Vol- 36, No. 29, 2150198, ISSN : 0217-751X
- (2022) **“Study of anisotropic universe in presence of DBI-essence, phantom and tachyonic fields”** (U Debnath, S Chakraborty, S Maity, A Pradhan) International Journal of Modern Physics A 37 (36), 2250198
- (2022) **Comparison of Grades of Suppliers based on the AHP and the TOPSIS Methods for Sustainable Supplier Selection in Indian Real Estate Sector** (T Chakraborty, S Chakraborty) Sustainable Excellence: A Contemporary Business Perspective, 76.
- (2023) **COVID-19 and stress of Indian youth: An association with background, on-line mode of teaching, resilience and hope** (S Deb, N Dorji, S Kar, AM Sunny, S Deb, S Ghosh, S Chakraborty) Journal of Affective Disorders Reports 12, 100502
- (2024) **Wolfram’s cellular automata model for unhealthy gas leakage detection** (S Sarkar, M Chatterjee, S Saha, S Chakraborty) International Journal of Information Technology 16 (7), 4127-4135
- (2024) **Applications of Cellular Automata in Water Informatics** (S Sarkar, PK Mukherjee, S Chakraborty) Water Informatics: Challenges and Solutions Using State of Art Technologies