



Name: Dr. Banashree Sen

Designation: Assistant Professor

Qualifications: M.Sc., (B.Ed.), Ph. D

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Biographical Sketch

Education

- Ph.D. in Applied Mathematics (Astrophysics & Cosmology: March, 2019): Jadavpur University
- B.Ed in Mathematics (2014) : Kurukshetra University, Hariyana
- M.Sc. in Mathematics (2013): Jadavpur University, Kolkata
- B.Sc. (Hons.) in Mathematics (2011): Jadavpur University, Kolkata

Honours and Awards

- Awarded INSPIRE Scholarship by Department of Science & Technology for good academics in UG & PG level
- Awarded INSPIRE Fellowship by Department of Science & Technology, Government of INDIA during Ph.D. Degree.

Astrophysics & Cosmology, Alternative Gravity, General Theory of Relativity, Star Modelling, Homotopy Perturbation Method, Gravitational Lensing

Areas of Specialisation and Research

Teaching Experience

- St. Xavier's University, Kolkata, Assistant Professor in Mathematics and Statistics under the Faculty of Commerce and Management (Morning, 04 July, 2023-present)
- Maulana Abul Kalam Azad University of Technology, Assistant Professor in Mathematics (C) from 11th January, 2021-03 July, 2023
- University of Engineering and Management, Assistant Professor in BSH from 2nd November, 2020-15th January, 2021
- Swami Vivekananda Institute of Modern Science, Assistant Professor in Mathematics from 1st April, 2019-31st July, 2020

Administrative Responsibility

- ERP Coordinator / Course Coordinator in Maulana Abul Kalam Azad University of Technology (MAKAUT) For 1.5 years
- APPSCICON -2022: Conference Joint Coordinator in MAKAUT
- Bridge Course Developer & Coordinator in MAKAUT For 2.5 years
- Assistant Editor of Departmental Newsletter in MAKAUT

Publications

Book(s) Edited

- (2022) Serve as Joint Editor of '**Stalwarts of Statistics; Vol-1**', MAKAUT Publishing House
- (2023) Serve as Joint Editor of '**Stalwarts of Statistics; Vol-2**', MAKAUT Publishing House

Article published in Peer-reviewed journals (*Sample given below*)

- (2023) "**Harshad Number: A Number is Divisible by its Digit Sum, An Divisibility Approach by Considering the Digit-sum to be Seven** ", International Journal of Scientific Research in Engineering and Management (IJSREM), (**Banashree Sen**, Tarit Kr Majumder, Payal Sen), Vol. 7 (7), Pp. 1 – 6, ISSN: 2582 – 3930
- (2023) "**Traversable wormholes supported by Dark Matter and Monopoles with Semi classical effects** ", European Physical Journal C , (F Rahaman, B Samanta, N Sarkar, B Raychaudhuri, **Banashree Sen**), Vol. 83(395), Pp.1 – 11, ISSN : 1434 – 6044
- (2022) "**The Technique Homotopy Perturbation Method operated on Laplace Equation** ", Asian Journal of Science and Applied Technology , (S Samajder, M H Khandakar, A Purkait, S Das, **Banashree Sen (Corr. Author)**), Vol. 11(2) , Pp.13 – 16 , ISSN : 2249 – 0698
- (2022) , "**Galactic Wormhole Under Lovelock Gravity** ", Universe , (Chakraborty K, Rahaman F, Ray S, **Banashree Sen**, Deb D) , Vol. 8(581) , Pp. 1 – 16 , ISSN : 2218 – 1997
- (2022) , "**An Investigation Of Latent Structure Regarding Purchase Of Smart Phones And Its Validation Through Structural Equation Modelling** ", Tech-Vistas MAKAUT, (Shrestha De, Ayantika Maity, Udit Chatterjee, Anwesha Sengupta,**Banashree Sen (Corr. Author)**) , Vol. 3(1) , Pp. 63 – 71, ISSN : NA

- (2021), “ **Predicting Chess Opening Through Modelling Of Chess Opponents**” , Webology , (Bose Chowdhury D. ; **Banashree Sen (Corr. Author)**) , Vol. 18(6) , Pp. 6748 – 6757, ISSN : 1735 – 188X
- (2019), “ **Existence of wormhole supported by Einasto Density Profile**” , Canadian Journal of Physics(NRC Research Press) , (**Banashree Sen (Sole Author)**) , Vol. 96 , Pp. 1242 – 1245, ISSN: 0008 – 4204
- (2018), “**Angle of Deflection and Time delay due to Electromagnetic Charged Blackhole**” , Canadian Journal of Physics(NRC Research Press) ,(**Banashree Sen (Sole Author)**) , Vol. 95(5), Pp. 504 – 506 , ISSN: 0008 – 4204
- (2017), “**Mathematical modeling of compact anisotropic relativistic fluid spheres in Higher Dimensional Space Time**” , Mathematical Methods in the Applied Sciences (Wiley Interscience) , (**Banashree Sen**, Th. Grammenos, Bhar P, Rahaman F) , Vol. 41(3) , Pp. 1062 – 1067 , ISSN: 0170 – 4214
- (2016), “**Study of galactic rotation curves in wormhole spacetime**” , Astrophysics and Space Science (cit-4 Spinger) , (Rahaman F, **Banashree Sen**, Chakraborty K, Shit G) , Vol. 361(3) , Pp. 1 – 5 , ISSN: 0004 – 640X
- (2015), “**Could wormholes form in dark matter galactic halos?**” , Astrophysics and Space Science (Cit-8 Spinger) , (Rahaman F, Shit G, **Banashree Sen**, Ray S.) , Vol. 361(1), Pp. 1 – 6 , ISSN: 0004 – 640X