

Research activities of the teaching faculties

Details of research papers published by teaching faculties during the period June, 2024 to September, 2025 ([Link for re-directing to journal source-cite website of digital journals](#)).

Sl. no.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Calendar Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI) number	UGC Care listed
1	Computational investigation on the tautomerisation between (Z)-4-(hydroxy(phenyl)methylene) isochroman-1,3-dione and 4-benzoyl-3-hydroxy-1H-isochromen-1-one in S_0 and S_1	G. Dey and A. Chakraborty	Physics	Russian Journal of General Chemistry	July, 2025	ISSN 1070-3632	https://doi: 10.1134/S1070363225601474	Yes
2	Study of breather structures in the framework of Gardner equation in electron-positron-ion plasma	Snehalata Nasipuri, Swarniv Chandra, Uday Narayan Ghosh, Chinmay Das & Prasanta Chatterjee	Mathematics	Indian Journal of Physics	April 2025	Electronic ISSN 0974-9845 Print ISSN 0973-1458	https://doi.org/10.1007/s12648-025-03594-0	Yes
3	Interaction and Decomposition of Magnetoacoustic Stationary Structures in Magnetospheric Plasma	Chandra, Swarniv and Kapoor, Sharpy and Chaudhuri, Chanchal and Pooja and Arief Abdaly, Sheik and Das, Chinmay and Sona Maji, Partha and Paul, Anindya and Bulchandani, Krishna and Kaur, Barjinder and Singh Saini, Nareshpal and Mandi, Laxmikanta	Mathematics	IEEE Transactions on Plasma Science	December 2024	Electronic ISSN: 1939-9375 Print ISSN: 0093-3813	https://doi.org/10.1109/TPS.2024.3486988	Yes

4	Damping Effects on the Spectrum of Solitary Structures in Cylindrical and Spherical Geometry	Mandi, Laxmikanta and Narayan Ghosh, Uday and Chandra, Swarniv, Das, Chinmay and Chatterjee, Prasanta	Mathematics	IEEE Transactions on Plasma Science	August 2024	Electronic ISSN: 1939-9375 Print ISSN: 0093-3813	https://doi.org/10.1109/TPS.2024.3438559	Yes
5	Evolutionary Stages of Envelope Soliton During Laser–Plasma Interaction	Chandra, Swarniv and Das, Chinmay and Batani, Dimitri and Aliverdiev, Abutrab A. and Myrzakulov, Ratbay and Majumdar, Ahona and Mallick, Sweta and Ghosal, Ritwik and Panda, Biswasaran and Sen, Anusree	Mathematics	IEEE Transactions on Plasma Science	June 2025	Electronic ISSN: 1939-9375 Print ISSN: 0093-3813	https://doi.org/10.1109/TPS.2024.3388317	Yes
6	Field Modulations of Ion Acoustic Waves in Plasma With Vasyliunas–Schamel Distributed Electrons	Das, Chinmay and Chandra, Swarniv and Saha, Asit and Chatterjee, Prasanta	Mathematics	IEEE Transactions on Plasma Science	2024	Electronic ISSN: 1939-9375 Print ISSN: 0093-3813	https://doi.org/10.1109/TPS.2024.3388319	Yes
7.	Nonlinear Evolutionary Stages of a Dispersive Kappa Distributed Magnetized Plasma	Chandra, S., Mahanta, D., Batani, D., Aliverdiev, A.A., Das, C. , Paul, S.	Mathematics	Springer Nature Link: ICNDA 2024	September 2024	Print ISBN 978-3-031-66873-9 Online ISBN 978-3-031-66874-6	https://doi.org/10.1007/978-3-031-66874-6_26	Yes
8	Possibility of formation of stationary structures in relativistically degenerate magnetized quantum plasma with exchange-correlation energy	Chinmay Das , Partha Sona Maji, Saptarshi Ghosh, Krishna Bulchandani, Pooja Thakur, Deepsikha Mahanta, Harshit Jain	Mathematics	Frontiers in Advanced Materials Research	2024	ISSN No Online (2582-2195)	https://doi.org/10.34256/famr2414	Yes
9	Nonplanar Solitons in Plasma With Cairns–Gurevich Electrons via	Paul, Anindya and Chandra, Swarniv and Paul, Niranjan and Pooja and Abdaly, Sheik Arief and Chatterjee, Prasanta	Mathematics	IEEE Transactions on Plasma Science	June 2025	Electronic ISSN: 1939-9375 Print ISSN: 0093-3813	https://doi.org/10.1109/TPS.2025.3576443	Yes

	Weighted Residual Method	and Das, Chinmay and Mondal, Kajal Kumar						
10	Some properties of regular picture fuzzy graph with application in social network analysis	Bera, B. , Banerjee, A., Khatun, J., Amanathulla, Sk., Pal, M.	Mathematics	Journal of Applied Mathematics and Computing (Spinger)	January 2025	1598-5865 (P)	https://doi.org/10.1007/s12190-024-02347-2	Yes
11	Certain Operations On M-Polar Picture Fuzzy Graphs	Khatun, J., Bera, B. , Amanathulla, Sk., Pal, M.	Mathematics	TWMS Journal of Applied and Engineering Mathematics.	2025	2146-1147	https://jaem.isikun.edu.tr/web/index.php/current/130-vol15no4/1371	Yes
12	‘Kalindi’ O ‘Pratham Prabaha’: Satyabatir Nabanirman	Dr. Indrani Hazra	Bengali	Trisangam International Refereed Journal (TIRJ)	January 2025	2583 – 0848	https://tirj.org.in . (Vol.: V, Issue: I) pp 180-186	No
13	Shroshta-Narir Kalame Shilpi-Narir Dwandwa	Dr. Indrani Hazra	Bengali	Uddalak	June 2025	2320-9275	(Vol.:19, Issue: 1), pp 70-76	No
14	Mahabharat er maha apatya sneho: Dhritorashtro	Dr. Kalyan Mukherjee	Bengali	Nibodhata Journal	January 2025	09724877		Yes
15	Nirmalendu Gooner Kabitay Muktijuddho	Subham Chatterjee	Bengali	Ekabinsha,	2024	2348-800X,	Vol.: XI, Issue I , pp 95-101	Peer reviewed

16	The role of religion in Indian Life: From Swamiji's viewpoint by-Swami Prabhananda	Writtick Bhattacharya	Philosophy	International Journal of Multidisciplinary Research and Development	2025	ISSN Online: 2349-4182 ISSN Print: 2349-5979		Peer-reviewed
17	The Role of Women in Swami Vivekananda's Social Philosophy	Writtick Bhattacharya	Philosophy	Intuitions & Insights: An Interdisciplinary Research Journal	2025	ISSN: 3048-6793		Peer-reviewed