LIST OF PUBLICATIONS

Department of Mathematics, GCU Assam

Dr. Madhumita Mahanta

1. Free Convective MHD Flow of a Visco-elastic Fluid past an Infinite Vertical Plate, International Journal of Applied Mathematics, ISSN 1311-1728, 22 (2), 2009 (189-203)
2. Heat and Mass Transfer in a Visco-elastic MHD Flow Past a Vertical Plate Under Oscillatory Suction Velocity, International Journal of Computational Science and Mathematics, ISSN 0974-3189, 2 (3), 2010 (137-146)
3. Periodic MHD Flow of Visco-elastic Fluid Through a Channel with Heat Transfer, International Journal of Mathematical Sciences and Engineering Applications, ISSN 0973-9424, 5 (VI), 2011 (395-404)
4. Mixed Convective MHD Flow of Visco-elastic Fluid Past a Vertical Infinite Plate with Mass Transfer, International Journal of Scientific and Engineering Research, ISSN 2229-5518, 3 (2), 2012 (1-7)
5. MHD Mixed Convective Oscillatory Flow of a Visco-elastic Fluid in a porous Channel, JP Journal of Heat and Mass Transfer, ISSN 0973-5763, 6 (2), 2012 (177-190)
6. Free Convective Oscillatory Flow of a Visco-Elastic Fluid Past A Porous Plate In Presence Of Radiation And Mass Transfer, International Journal of Engineering and Science, ISSN 2319-1813(e), 2319-1805(p), 2 (9), 2013 (51-57)
7. Visco-elastic Fluid Flow with Heat and Mass Transfer in a Vertical Channel Through Porous Medium, Journal of Global Research in Mathematical Archives, ISSN 2320-5822, 2(1) 2014 (22-33)
8. Unsteady MHD Flow of a Viscoelastic Fluid Through a Porous Medium Near an Oscillating Porous Plate, Journal of Fluid Flow, Heat and Mass Transfer (JFFHMT), 12: 417-422, 2025, DOI: 10.11159/jffhmt.2025.041 [SCOPUS, Google Scholar, Semantic Scholar, CAS, Genamics JournalSeek and Mendeley]

Dr. Moytri Sarmah

1. Line Graph associated to Total graph of Idealization, Afrika Matematika (2016) 27:485 - 490. [SCOPUS and WEB of Science Indexed]
2. Subset Graph of a Near Ring, International Journal of Mathematical Archieve – 8(3),2017,110 – 113. (UGC Listed)
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6. Total Near Ring Graph, Accepted for publication. Journal of Algebraic Systems, 14(1): 2026, 45-53. https://doi.org/10.22044/JAS.2024.13537.1753. [SCOPUS Indexed]

Dr. Ankur Jyoti Kashyap

1. Dynamics in a ratiodependent eco-epidemiological predator-prey model having cross species disease transmission. Commun. Math. Biol. Neurosci., 2021 (2021), Article ID 15 (SCOPUS, ESCI).
2. Dynamical analysis of a predator-prey epidemiological model with density dependent disease recovery, Commun. Math. Biol. Neurosci., 2020 (2020), Article ID 80 (SCOPUS, ESCI).
3. A fractional model in exploring the role of fear in mass mortality of pelicans in the Salton Sea, An International Journal of Optimization and Control: Theories & Applications (IJOCTA),11(3), 28-51 (2021), (SCOPUS). https://doi.org/10.11121/ijocta.2021.1123
4. Bifurcation analysis of a predator-prey system with density dependent disease recovery, FILOMAT, Vol 36, No 20 (2022) (SCI, IF 0.844).
5. Dynamical study of a Predator-Prey system incorporating hunting cooperation and Michaelis–Menten type Predator-Harvesting, International Journal of Biomathematics, World Scientific, (SCIE, IF 2.129) https://doi.org/10.1142/S1793524522501352.

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8. Analysis of Stability, Sensitivity Index and Hopf Bifurcation of Eco-Epidemiological SIR Model under Pesticide Application, COMMUN. BIOMATH. SCI., VOL. 6, NO. 2, 2023, PP. 126-144. (SCOPUS Q2), https://doi.org/10.5614/cbms.2023.6.2.4
9. Dynamical analysis of an anthrax disease model in animals with nonlinear transmission rate, Mathematical Modelling and Control, Volume 3, Issue 4, 2023: 370-386, (SCOPUS, ESCI) doi: 10.3934/mmc.2023030.
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15. Nonlinear dynamical analysis of a fractional-order El Niño Southern Oscillation system, The European Physical Journal Plus, 2025, 140, 704,

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19. Dynamical Analysis of a Leslie-Gower Type Harvesting Model Incorporating Nonlinear Harvesting and Fear Effect, Boletim Da Sociedade Paranaense de Matemática, 2026, https://doi.org/10.5269/bspm.81813
20. Deterministic study of an Eco-epidemiological Model with Prey Refuge and Predator Harvesting, Boletim Da Sociedade Paranaense de Matemática, 2026, https://doi.org/10.5269/bspm.81950
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