

Publications in Journals

S. No.	Name of the Faculty	Title	Name of the Journal	Authors
1	S. Sundar, N. Swaroop, and Ram Naresh	Modeling and Stability Analysis of the Effect of Awareness Programs on the Control of Atmospheric Pollutants Emitted from Various Pollutant Emitting Sources to Reduce Global Warming	Journal of Environmental Informatics Letters	Vol. 12, Issue 1, 26-33, 2024
2	Rekha Bali , Ragini Tripathi, Swati Mishra	Mathematical modeling of tissue porosity effect and non-Newtonian behavior of blood on anomalous effect on blood flow in micro-blood vessels	Physics of Fluids	Vol. 36, 111921, 2024
3	Himanshu Yadav and Udaya Pratap Singh	Analysis of squeeze characteristics of thin films of Sisko fluids between a sphere and a plate	Discover Molecules	Vol. 2, Art. 4, 2025
4	M. Trivedi, S. Sundar, and R. N. Tripathi	A Mathematical Model to Unravel the Acid Rain Impact on the Growth of Plant Biomass	Journal of Environmental Informatics Letters	doi:10.3808/jeil.202400147
5	Prachi Gupta and Udaya Pratap Singh	Effects of sisko fluids on squeeze film characteristics between cylindrical surfaces	Discover Molecules	Vol. 2, 9 2025
6	M. Trivedi, S. Sundar, and R. N. Tripathi	Dynamic modeling of pollution control in industrial areas through reforestation strategies	International Journal of Dynamics and Control	Vol. 13, 213, 2025

Papers Presented in Conferences

S. No.	Name of the Faculty	Title	Name of the Conference	Held at	Duration
1	Prof. Rekha Bali	Effect of transport of nanoparticles on diffusive flux and filtration efficiency in capillary-tissue exchange system: A mathematical model	39th ACRMS	Christ University Benguluru	December 27-29, 2024
2	Prof. Rekha Bali	Mathematical modelling of fluid filtration / reabsorption and diffusion in a capillary tissue exchange system with effect of tissue porosity	NCDPANS	IIT(ISM) Dhanbad	April 23-25, 2025
3	Prof. Rekha Bali	Mathematical modelling the role of nanoparticles in diffusive and filtration processes within capillary-tissue exchange	ICMMAAC 2025	JECRC University Jaipur	August 01-03, 2025

Books/ Book chapters Published

S. No.	Name of the Faculty	Title of Book	Name of Publisher	ISSN/ ISBN/ Year	Authors/Editors
1	Dr. Ram Naresh Tripathi	Computational Techniques in Engineering, Science and Technology	Rubicon Publications	978-1-80433- 922-0/2024	Dr. Ram Naresh Tripathi, Dr. Agraj Tripathi, Dr. Dileep Sharma and Dr. Manmohan Shukla

Book chapters Published

S. No.	Name of the Faculty	Title	Name of the Book/Publisher	Authors	Details
1	Dr. Ram Naresh Tripathi	Modeling the spread and control of COVID-19 with sanitization	Computational Techniques in Engineering, Science and Technology/Rubicon Publications (Eds. Tripathi R.N., Tripathi A., Sharma D., Shukla M.)	Ram Naresh Tripathi, Sandhya Rani Verma, J.B. Shukla	pp. 33-57, 2024.
2	Dr. Ram Naresh Tripathi	Modeling the spread of Corona virus with quarantine and isolation effect	Computational Techniques in Engineering, Science and Technology/Rubicon Publications (Eds. Tripathi R.N., Tripathi A., Sharma D., Shukla M.)	Dileep Sharma, Agraj Tripathi, Ram Naresh Tripathi, Amit Chauhan	pp. 59-90, 2024.
3	Dr. Ram Naresh Tripathi	Modeling the effects of awareness programs by media to control the spread of infectious diseases	Computational Techniques in Engineering, Science and Technology/Rubicon Publications (Eds. Tripathi R.N., Tripathi A., Sharma D., Shukla M.)	Agraj Tripathi, Ram Naresh Tripathi, Dileep Sharma, Manmohan Shukla	pp. 91-106, 2024.
4	Dr. Udaya Pratap Singh	Theoretical study of steady state properties of pressurized canonical bearings lubricated with non-Newtonian fluids	Computational Techniques in Engineering, Science and Technology/Rubicon Publications (Eds. Tripathi R.N., Tripathi A., Sharma D., Shukla M.)	Udaya Pratap Singh	pp. 19-32, 2024.