

Project Details

Ongoing Projects of the Department					
SI NO.	Title	PI/Co-PI	Funding Agency	Duration	Research Grant
1	Globally supported radial basis function based fractional order mesh free fast algorithms for image denoising and enhancement	Prof. R. K. Pandey	RAC-S-ISRO, Govt. of India	2025-2028	22.55 Lakhs
2	Efficient layer adapted methods for parabolic interface problems with Boundary and interior layers	Dr. S. Kumar	CRG – SERB, Government of India	2024-2027	21 Lakhs
3	Shape optimization problems for higher Neumann eigenvalues	Dr. S. Verma	CSIR-ASPIRE grant, India	2024-2027	23 Lakhs
4	Approximation of runs in multi-state trials with appropriate distributions	Dr. A. Kumar	MATRICS – SERB, Government of India	2024-2027	6.6 Lakhs
5	Certain space of cusp forms spanned by eta quotients and application	Dr. A. K. Jha	MATRICS – SERB, Government of India	2023-2026	6.6 Lakhs
6	Nonsmooth Optimization and Duality Theory Under Variable Dominance and Interval Uncertainty	Dr. D. Ghosh	CRG – SERB, Government of India	2023-2026	27.47 lakhs
7	Approximation Methods for Generalized Sturm-Liouville Problems	Prof. R. K. Pandey	MATRICS – SERB, Government of India	2023-2026	6.6 Lakhs
8	Adaptive Computational Approach for Riesz Fractional Advection Dispersion Wave Equations	Prof. V. K. Singh	CRG – SERB, Government of India	2023-2026	21.67 Lakhs
9	Wavelets Adaptive Schemes for Tumor Growth Models	Prof. V. K. Singh/ Prof. S. Das	CSTUP, Government of Uttar Pradesh	2023-2026	11.44 Lakhs
10	Instability mechanism of magnetohydrodynamic non-isothermal Annular Poiseuille flow: A numerical study	Dr. M. K. Khandelwal	ANRF – SERB, Government of India	2023-2026	6.6 Lakhs
11	Investigation of size effects on vibration and thermoelastic damping in Nano-electromechanical systems (NEMS) of piezoelectric materials	Prof. S. Mukhopadhyay	MATRICS – SERB, Government of India	2023-2025	6.6 Lakhs
12	Study of runs in multi-state trials	Dr. A. Kumar	SRG – SERB, Government of India	2022-2025	14.71 Lakhs
13	Motives and algebro-geometric invariants of certain moduli spaces of Connections	Dr. A. Singh	SRG – SERB, Government of India	2022-2025	14.71 Lakhs
14	Mixed local- nonlocal elliptic and parabolic equations with Singular nonlinearities	Dr. R. Arora	SRG – SERB, Government of India	2022-2025	14.71 Lakhs
15	A Numerical Study of Some Non-classical Diffusion/Heat Equations With Free Boundaries	Prof. Rajeev	MATRICS – SERB, Government of India	2022-2025	6.6 Lakhs
16	On Developing Polynomial-time Interior-Point Methods for Robust Multiobjective Convex Optimization Problems	Dr. D. Ghosh	MATRICS – SERB, Government of India	2022-2025	6.6 Lakhs
17	Study and Analysis of Interfacial cracks in composite media	Prof. S. Das	NBHM, DAE, Government of India	2022-2025	
18	Wavelets Adaptive Schemes for Singular Integral Equations	Prof. V. K. Singh	MATRICS – SERB, Government of India	2022-2025	6.6 Lakhs
19	Study of Two Dimensional Fractional Order Nonlinear Transport Phenomena Problems in Porous Media	Prof. S. Das	BRNS – BARC, Government of India	2022-2025	14.84 Lakhs
20	Development of Cryptographically efficient lightweight MDS matrices And its extension to code based PQC	Dr. A. J. Gupta	DRDO, Government of India	2022-2025	23.10 Lakhs