

Major Projects undertaken by Department of Mathematics

Sno.	Project/Research Title	Funded/sponsored by	Duration	Coordinators/Pis
1	Combinatorial properties and characterizations of normal pseudomanifolds (under Core Research Grant)	Science and Engineering Research Board (SERB)India	24-02-2022-23-02-2025	Prof.Biplab Basak
2	Development, Analysis and Implementation of Parameter Uniform Numerical Methods for Singularly Perturbed Interface Problems in Partial Differential Equations (Under Core Research Grant)	Science and Engineering Research Board (SERB)India	24-02-22 to 23-02-2025	Prof.S Chandra Sekhara Rao
3	Covering and Dominating Geometric Objects (under MATRICS Scheme)	Science and Engineering Research Board (SERB)India	21-02-2022 to 20-02-2025	Prof.Minati De
4	Parameterized Complexity and Kernelization of Graph Connectivity Problems	Science and Engineering Research Board (SERB)India	29-12-2021 to 28-12-2023	Prof.Ashutosh Rai
5	High Accuracy Computational Electrodynamics for solving 21st Century Problems (Prof. Dinshaw S. Balsara under supervision of Prof. Harish Kumar under VAJRA Scheme)	Science and Engineering Research Board (SERB)India	03-10-2021 to 02-10-2022	Prof.Harish Kumar
6	Numerical method based on M_n -Legendre polynomial for the numerical solution of fractional differential equations and parameter estimation in M_n -Legendre polynomial (SERB-POWER Fellowship to PI)	Science and Engineering Research Board (SERB)India	24-09-2021 to 23-09-2024	Prof.Mani Mehra
7	Stochastic Analysis for Power Optimization in 5G Wireless Networks (Sub Project under MI02334)	Bharti infratel Limited India	09-05-2021 to 08-05-2024	Prof.S Dharmaraja
8	FIST Project for Department of Mathematics	Department of Science and Technology (DST)India	16-03-2021 to15-03-2026	Prof.Konijeti Sreenadh
9	Investigations on Multivariate Constrained Approximation with Fractal Functions and its Applications in Geometric Modelling (under Core Research Grant Scheme)	Science and Engineering Research Board (SERB)India	13-01-2021 to 12-01-2024	Prof.Viswanathan Puthan Veedu
10	Some Approximation Theoretic Aspects of Fractal Functions on the Sierpinski Gasket and other Fractal Domains (under MATRICS Scheme)	Science and Engineering Research Board (SERB)India	28-12-2020 to 27-12-2023	Prof.Viswanathan Puthan Veedu
11	Establishment of Centre of Excellence under Industry Alliance on Artificial Intelligence	NOKIA Solutions and Networks India Pvt. Ltd., Noida, UP India	01-09-2020 to 31-08-2023	Prof.Niladri Chatterjee
12	Image of locally finite and locally nilpotent derivations over the polynomial algebra	Science and Engineering Research Board (SERB)	19-03-2020 to 18-03-2023	Prof.Surjeet Kour
13	Partial differential equations on the hyperbolic space (Inspire Faculty Award transfer from IISER Pune to IIT Delhi)	Department of Science & Technology India	24-02-2020 to 13-05-2023	Prof.Debdip Ganguly
14	Existence and regularity of positive solutions of elliptic and parabolic double phase equations	Science and Engineering Research Board (SERB)India	21-02-2020 to 20-02-2023	Prof.Konijeti Sreenadh
15	Stable Numerical Schemes for Relativistic Fluid and Plasma Flows	Science and Engineering Research Board (SERB)India	19-02-2020 to 18-02-2023	Prof.Harish Kumar
16	PSEUDO-DIFFERENTIAL CALCULUS ON THE AFFINE GROUP	Science and Engineering Research Board (SERB)India	14-02-2020 to 13-02-2023	Prof.Aparajita Dasgupta
17	Layer Resolving Numerical Schemes and their Analysis for Certain Class of Singular Perturbation Problems with Smooth and N	Science and Engineering Research Board (SERB)India	10-02-2020 to 09-02-2023	Prof.S Chandra Sekhara Rao
18	Average and Relavent Sampling in Reproducing Kernel subspace of Mixed Lebesgue Space	Science and Engineering Research Board (SERB)India	07-02-2020 to 06-02-2023	Prof.Sivananthan Sampath
19	Valuing variable annuities with lifelong guarantees	Science and Engineering Research Board (SERB)India	31-01-2020 to 30-01-2023	Prof.S Dharmaraja
20	Functional Classes and Hyperbolic Equations on Hilbert Spaces	Science and Engineering Research Board (SERB)India	13-01-2020 to12-01-2023	Prof.Aparajita Dasgupta
21	Stochastic Conservation Laws and Optimal Control in Stochastic Ferromagnetism. (INSPIRE FACULTY AWARD)	Department of Science & Technology India	15-03-2019 to 14-03-2024	Prof.Ananta Kumar Majee
22	Wavelet methods for PDEs on network	Department of Science & Technology India	08-03-2019 to 11-07-2022	Prof.Mani Mehra
23	DST INSPIRE Faculty research grant to Dr biplab basak ,Department of mathematics	Department of Science & Technology India	22-01-2019 to 11-07-2022	Prof.Biplab Basak
24	Solving Problems of Network Operations	NOKIA Solutions and Networks India Pvt. Ltd., Noida, UP	01-12-2018 to 31-12-2022	Prof.Niladri Chatterjee
25	Games and Optimization for Energy Management with Stochasticity-GOEMS	IFCPAR France	01-09-2018 to 31-12-2022	Vikas Vikram Singh
26	INSPIRE FACULTY AWARD TO Dr.Punit Sharma	Department of Science & Technology India	17-08-2018-16-08-2023	Prof.Punit Sharma
27	INSPIRE FACULTY AWARD TO Dr. Shiv Prakash Patel	Department of Science & Technology India	19-04-2018 to 18-10-2022	Prof.Shiv Prakash Patel