

List of Sponsored Research Projects (Ongoing)

S.NO.	Name of PI	Date of start Month	Grant No.	Funding Agency	Title/Name of Project	Sanctioned Amount (Rs. in Lacs)	Project Duration
1	Prof. Manil.T.Mohan	25.09.2018	DST-1263-MTD	DST, New Delhi	INSPIRE Faculty Award	86.27	5 years
2	Prof. Sandip Banerjee	04.10.2018	SER-1270-MTD	SERB, NEW delhi	Mathematically Modeling of Phytoplankton Dynamics with highly irregular distribution	18.4	3Years
3	Prof. Neha Bhardwaj	20.03.2019	SER-1326-MTD	SERB, NEW delhi	Approximation of Degree of positive linear operators involving orthogonal polynomials	10.05	3 Years
4	Prof. Chaman Kumar	27.03.2019	SER-1329-MTD	SERB, NEW delhi	Higher order approximation of stochastic differential equation	6.6	3 Years
5	Prof. Kotapally Harish Kumar	01.05.2019	SER-1363-MTD	SERB, NEW delhi	SERB N-PDF	19.2	2 Years
6	Prof. Ram Jiware	08.08.2019	CSR-1409-MTD	CSIR, New Delhi	Theoretical Analysis and Numerical Simulation of unsteady-state Singularly Perturbed parabolic models	16.06	3 Years
7	Prof. Aditi Gangopadhyay	13.08.2019	DST-1410-MTD	DST, New Delhi	Detection of Data Attaacks and Design of a Resistance Mechanism in smart Grids	2.39	3 Years
8	prof. a.k.giri	17.09.2019	DST-1420-MTD	DST, New Delhi	analysis and numerical method for population balance equations	5.71	2 Years
9	Prof. Ameya kumar Nayak	21.01.2020	SER-1479-MTD	SERB, new delhi	Thermokinetic transport and microfluidic mixing of newtonian/non-newtonian fluids through patterned micro systems	21.25	3 years
10	Prof. A.Swaminathan	22.01.2020	SER-1480-MTD	SERB, new delhi	Spectral properties of perturbed Biorthogonal polynomials generated by rational functons and their analogue	26.37	3 years
11	Prof. A.Swaminathan	02.03.2020	SER-1505-MTD	SERB, new delhi	Zeros of R-11 type biorthogonal rational functions and corresponding numerical quadrature rules	6	3 years
12	Prof. Ram Krishna Pandey	05.03.2020	SER-1508-MTD	SERB, new delhi	Certain inverse problems associated with the sum of dilated sets of integers	6.6	3 years
13	Prof. Pratibha	15.07.2020	SER-1535-MTD	SERB, New Delhi	Identification of possible cure of COVID-19 through study of DNA structures through Iterated function systems	5.5	1 years

14	Prof. Sandip Banerjee	29.07.2020	YUC-1542-MTD	York university, Canada	Evaluation of intervention strategies in response to the COVID -19 outbreaks	\$29,000/- (Canadian Dollar) Transferred in IIT Roorkee Rs. 15,32,380.30	2 years
15	Prof. Sanjeev Kumar	29.10.2020	DST-1577-MTD	DST, New Delhi	Development of advanced computational algorithms for evaluating post-surgery rehabilitation	32.02	3 years
16	Prof. Premanand Bera	10.12.2020	SER-1595-MTD	SERB, new delhi	Transition characteristics of isothermal and non-isothermal poiseuille flow in a fluid overlying a porous medium	22.91	2 years
17	Prof. Arbaz Khan	29.12.2020	SER-1621-MTD	SERB, new delhi	Analysis of an efficient and fast numerical method for poroelasticity with uncertain inputs	6.6	3 years
18	Prof. Sanjeev Singh	12.01.2021	SER-1623-MTD	SERB, new delhi	Development of encryption and secret sharing schemes for quantum Images	20.53	3 Years
19	Prof. Aameya Kumar Nayak	11.01.2021	SER-1627-MTD	SERB, new delhi	Implementation of multi-fluid population balance method for the nonlinear coupled Maxwellian averaged transport equations	6.6	3 Years
20	Prof. Maheshanand	22.01.2021	SER-1630-MTD	SERB, new delhi	Construction and analysis of Locally Recoverable Codes	5.06	3 years
21	Prof. Premanand Bera	11.01.2021	SER-1631-MTD	SERB, new delhi	Non-Linear stability theory of non-isothermal parallel flow in a vertical annulus filled with high permeable porous medium	6.6	3 years
22	Prof. Ram Jiware (Co-PI.)	19.03.2021	DST-1657-MTD	DST, New Delhi	Lie symmetry analysis, simulation and lyapunov stability analysis of the hyperbolic systems	13.50	3 years
23	Prof. Shiv Kumar Gupta	26.03.2021	UST-1661-MTD	Uttarakhand state council for science & Technology	Formulation and developing solution methodologies of various optimization models under uncertainty with applications in environmental managements	1.61	2 years
24	Prof. Ram Krishan Pandey	06.07.2021	CSR-1696-MTD	CSIR, New Delhi	various coloring parameters of distance graphs and motzkin's maximal density of sets	13.30	3 years

25	Prof. Ram Jiwari	07.07.2021	DAE-1698-MTD	DAE, Mumbai	Theoretical analysis and simulation to capture complex patterns of nonlinear reaction-diffusion models	15.14	3 years
26	Prof. A.Swaminathan	07.07.2021	DAE-1699-MTD	DAE, Mumbai	Computational aspects in biorthogonal rational function related to infinite gap jacobi matrices logarithmic capacity and their asymptotics	15.15	3 years
27	Prof. Ram Krishna Pandey	28.07.2021	DAE-1706-MTD	DAE, Mumbai	Inverse problems associated with certain sunsets in additive number theory	15.15	03 years
28	Prof. Ankik kumar Giri	12.10.2021	IFC-1727-MTD	INDO-FRENCH CENTRE FOR APPLIED MATHEMATICS (IFCAM), Bangalore	Collision-induced fragmentation and coagulation : dynamics and numerics	Rs. 4,01,000/- + 8700 EURO This amount is only for 1st year. The amount for second and third year will be transferred after first visit	3 years
29	Prof. Kusum Deep	12.10.2021	SER-1729-MTD	SERB, new delhi	Minimizing the side-effects of various vaccines for Ncovid-19 using advanced Data Analytics and Nature Inspired Optimization Techniques	31.06	3 Years