

Sponsored Research Projects from 2016-17 to till now

| S.NO. | Name of PI | Deptt. | Date | Grant No. | Funding Agency | Title/Name of Project | Total Outlay (Rs. in Lacs) | Project Duration |
|-------|--------------------------|--------|------------|--------------|----------------|--|----------------------------|------------------|
| 1 | Prof. Ram Jiwari | MTD | 12.04.2016 | SER-930-MTD | SERB | Numerical Analysis and Computational Modeling of Nonlinear Parabolic Mathematical Models with Singular and Variable Coefficients | 18.06 | 3 Years |
| 2 | Ms. Divya Raghavan | MTD | 28.09.2016 | DST-981-MTD | DST | "Trajectory Controllability of nonlinear systems using Fractional Calculus" under Women Scientist Scheme A (WOS-A) | 13.75 | 3 Years |
| 3 | Prof. Sanjeev Kumar | MTD | 22.12.2016 | ISR-1007-MTD | ISRO | Optical Flow based prediction of visual from satellite image sequences | 16.8 | 2 Years |
| 4 | Prof. Sapna Pandit | MTD | 30.12.2016 | SER-1009-MTD | SERB | SERB-N-PDF | 19.2 | 2 Years |
| 5 | Prof. Ankik Kumar Giri | MTD | 02.02.2017 | SER-1021-MTD | SERB | Coagulation-Fragmentation models : Well-Posedness Numerical approximations and Asymptotic analysis | 4.73 | 3 Years |
| 6 | Prof. Rama Bhargava | MTD | 27.06.2017 | DAE-1087-MTD | DAE | Hybrid Meshfree Approach for Simulation of Transport Phenomena in Nanofluids with Parallel Implementation | 13.525 | 3 years |
| 7 | Prof. Kamaljeet | MTD | 24.07.2017 | SER-1101-MTD | SERB | SERB-N-PDF | 19.2 | 2 years |
| 8 | Prof. Sandeep Singh | MTD | 28.07.2017 | SER-1102-MTD | SERB | SERB-N-PDF | 19.2 | 2 years |
| 9 | Prof. Ameeya Kumar Nayak | MTD | 21.09.2017 | CSR-1129-MTD | CSIR | Microfluidic Mixing of Newtonian/non-newtonian Fluids through charged channels | 18.96 | 3 years |
| 10 | Prof. Manil.T.Mohan | MTD | 25.09.2018 | DST-1263-MTD | DST | INSPIRE Faculty Award | 86.27 | 5 years |
| 11 | Prof. Sandip Banerjee | MTD | 04.10.2018 | SER-1270-MTD | SERB | Mathematically Modeling of Phytoplankton Dynamics with highly irregular distribution | 18.4 | 3Years |
| 12 | Prof. Neha Bhardwaj | MTD | 20.03.2019 | SER-1326-MTD | SERB | Approximation of Degree of positive linear operators involving orthogonal polynomials | 10.05 | 3 Years |
| 13 | Prof. Chaman Kumar | MTD | 27.03.2019 | SER-1329-MTD | SERB | Higher order approximation of stochastic differential equation | 6.6 | 3 Years |
| 14 | Prof. Kotapally Harish K | MTD | 01.05.2019 | SER-1363-MTD | SERB | SERB N-PDF | 19.2 | 2 Years |
| 15 | Prof. Ram Jiwari | MTD | 08.08.2019 | CSR-1409-MTD | CSIR | Theoretical Analysis and Numerical Simulation of unsteady-state Singularly Perturbed parabolic models | 16.06 | 3 Years |
| 16 | Prof. Aditi Gangopadhyay | MTD | 13.08.2019 | DST-1410-MTD | DST | Detection of Data Attacks and Design of a Resistance Mechanism in smart Grids | 2.39 | 3 Years |
| 17 | prof. a.k.giri | MTD | 17.09.2019 | DST-1420-MTD | DST | analysis and numerical method for population balance equations | 5.71 | 2 Years |
| 18 | Prof. Ameya kumar Nay | MTD | 21.01.2020 | SER-1479-MTD | SERB | Thermokinetic transport and microfluidic mixing of newtonian/non-newtonian fluids through patterned micro systems | 21.25 | 3 years |

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| 19 | Prof. A.Swaminathan | MTD | 22.01.2020 | SER-1480-MTD | SERB | Spectral properties of perturbed Biorthogonal polynomials generated by rational functions and their analogue | 26.37 | 3 years |
| 20 | Prof. A.Swaminathan | MTD | 02.03.2020 | SER-1505-MTD | SERB | Zeros of R-11 type biorthogonal rational functions and corresponding numerical quadrature rules | 6 | 3 years |
| 21 | Prof. Ram Krishna Pand | MTD | 05.03.2020 | SER-1508-MTD | SERB | Certain inverse problems associated with the sum of dilated sets of integers | 6.6 | 3 years |
| 22 | Prof. Pratibha | MTD | 15.07.2020 | SER-1535-MTD | SERB | Identification of possible cure of COVID-19 through study of DNA structures through Iterated function systems | 5.5 | 1 years |
| 23 | Prof. Sandip Banerjee | MTD | 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 |
| 24 | Prof. Sanjeev Kumar | MTD | 29.10.2020 | DST-1577-MTD | DST | Development of advanced computational algorithms for evaluating post-surgery rehabilitation | 32.02 | 3 years |