

INDIAN INSTITUTE OF TECHNOLOGY ROPAR

List of Running Sponsored Projects money Sanctioned from Non-Internal Sources as on 06.08.2018

Sr. No.	Funding Agency	Name of Faculty Member	Department	Title of Project	Sanctioned Amount				
					2009-10	2010-11	2011-12	2012-13	2013-14
1	DST	Dr. Arvind Kumar Gupta	Mathematics	Mathematical Modeling of two-channel exclusion processes relevant to real world	-	-	-	-	0.11
2	DST	Dr. Navin Kumar	SMME	To design closed loop automated blood pressure control system	-	-	-	-	0.19
3	DST	Dr. Anshu Dhar Jayal	SMME	Surface Engineering of cutting tools for sustainable dry, near dry and cryogenic machining	-	-	-	-	-
4	DST	Dr. Avijit Goswami	Chemistry	Syntheses and application of heteroatom substituted cyclooctatetraenes (COTs)	-	-	-	-	-
5	DST	Prof. P. K. Raina	Physics	Calculation of Nuclear Transition Matrix Elements and Measurement of Experimental Half-life for Nuclear Beta Decay"	-	-	-	-	-
6	DST	Dr. Ravibabu Mulaveesala	Electrical Engineering	Matched Filter Approach for Chirp Excited Infrared Imaging for Non-destructive Characterization"	-	-	-	-	-
7	DST	Dr. Deepti R Bathula	Computer Science & Engineering	Neuroimaging: Towards Integrated Analysis of Multi-site Functional MRI Data	-	-	-	-	-
8	DST	Dr. S C Martha	Mathematics	Surface Wave interaction with irregular bottom topography and barriers	-	-	-	-	-
9	DST	Dr. Rajesh V Nair	Physics	Finite-size and disorder-induced modification of spontaneous emission in nanophotonic structures	-	-	-	-	-
10	SERB	Dr. T J Dhilip Kumar	Chemistry	Quantum dynamics of energy transfer processes in atom-molecular ion interaction	-	-	-	-	-
11	DST	Ms. Anamika Chhabra	Computer Science & Engineering	Crowd sourced annotations: A next generation e-textbook technology	-	-	-	-	-
12	DST	Department of SMME	SMME	DST (FIST Program)	-	-	-	-	-
13	DST	Dr. Mukesh Kumar	Physics	Studies on the growth kinetics of earth abundant Cu-Zn..... through photon management	-	-	-	-	-
14	DST	Dr. Dhiraj Kumar Mahajan	SMME	Study of the effect of Microstructure of Fatigue Crack Initiation in Nickel under Hydrogen Environment using coupled framework of Crystal Plasticity and Hydrogen Transport Model	-	-	-	-	-

15	DST	Dr. Asoka Biswas	Physics	Spin assisted squeezing and quantum computing in cavity optomechanics	-	-	-	-	-
16	DST	Dr. Narinder Singh	Chemistry	Design and Synthesis of 1,8-Naphthalimide-Based Receptors Chemosensor and Biosensor Development	-	-	-	-	-
17	DST-SERB	Dr. Partha Sharathi Dutta	Mathematics	Dispersal Synchrony and Stability in Population Dynamics	-	-	-	-	-
18	DST	Dr. G. Sankara Rajukosuru	Mathematics	On The Existence of Best Proximity Pairs and Generalized Equilibrium for Constrained Games	-	-	-	-	-
19	DST	Dr. Pushendra Pal Singh	Physics	Understanding the transaction of Nuclear Reactions from Sub-to Above-Barrier Energies	-	-	-	-	-
20	DST-Ramanujan Fellowship	Dr. Tharamani Chikka Nagaiah	Chemistry	Ramanujan Fellowship	-	-	-	-	0.87
21	DST-Inspire Faculty Award	Dr. Vimal Kumar	Chemistry	Innovation in Science Pursuit for Inspired Research (Inspire)	-	-	-	0.19	0.17
22	CSIR	Dr. C N Tharamani	Chemistry	Development of Sustainable Oxygen Depolarized Cathode Material of HCL Electrolysis	-	-	-	-	-
23	CSIR	Dr. Prabal Banerjee	Chemistry	Tandem Takeda Olefination, Mukaiyama Aldol, and prins cyclization (TOMAP): Modular Synthesis of Spiroethers	-	-	-	-	-
24	CSIR	Dr. Yashveer Singh	Chemistry	Polymeric Micellric For Sustained and Targeted Delivery of A microbicde (Dapivirine) to Dendritic (DCs) and Langerhans Cells (LCs), The Virus Reservoirs Present in Vaginal Mucosal and Sub-Mucosal Regions to Prevent HIV-1 Infection	-	-	-	-	-
25	DRDO	Dr. Navin Kumar	SMME	Hyper Velocity impact induced deformation of the target-projectile system	-	-	-	0.30	-
26	DRDO	Dr. Ravi Babu	Electrical Engineering	Non-Destructive Testing of Carbon Fiber Reinforced Polymers (CFRP) Using Non-Stationary Thermal Technique	-	-	-	-	-
27	DAE	Dr. C. M. Nagaraja	Chemistry	Development of porous metal organic frameworks (MOFS) for H2 storage	-	-	-	-	0.28
28	DAE	Dr. Manju Khan	Mathematics	Normal Complement in the Unit Group and its Structure	-	-	-	-	-
29	DAE	Dr. Mukesh Kumar	Physics	Growth and characterization of 2-D MoS2 monolayers for high sensitivity gas sensor device	-	-	-	-	-
30	DAE	Dr Harpreet Singh	SMME	Development of Thick pure Cu cladding/coating on SS 304/SS316 substrates with cold spray technology	-	-	-	-	-

31	TIDE	PI-Dr Nitin Auluck	Computer Science & Engineering	Expansion of Technology Incubation & Development of Entrepreneurs	-	-	-	1.55	-
32	CPRI	Dr. C C Reddy	Electrical Engineering	Investigations on new nano-composite materials for electrical insulation	-	-	-	-	-
33	British Council Project Grant	-	Institute		-	-	0.26	-	-
34	PDIF	Dr Nitin Auluck	Computer Science & Engineering	PDIF-PTU-Prototype Development & Innovation	-	-	2.20	-	-
35	DeitY	Dr. Rohit Y Sharma	Electrical Engineering	Special Manpower Development Programme for Chips to System Design	-	-	-	-	-
36	DeitY (Media Lab Asia)	Dr. Rohit Y Sharma	Electrical Engineering	Visvesvaraya PhD Scheme for Electronics and IT	-	-	-	-	-
37	DRDO	Dr. Harpreet Singh	SMMEE	Parametric Studies on modulation assisted machining of difficult-to-machine materials and its effect on chip characteristics	-	-	-	-	-
38	DST	Dr. Srikant Sekhar Padhee	SMMEE	Analysis of Non-linear and Non-classical effects in Inhomogeneous Stiffened Panel	-	-	-	-	-
39	DRDO	Dr. Navin Kumar	SMMEE	Finite Element Based modeling and experimental Characterization C-SiC Composite	-	-	-	-	-
40	DRDO	Dr. Kailash Chandra Jena	Physics	Confined interfacial structure and orientation of polyphosphazene polymers at solid and liquid surfaces	-	-	-	-	-
41	INDO-US Science & Technology Forum (IUSSTF)	Dr. Himanshu Tyagi	SMMEE	Energy Efficient Technology for Smart Building	-	-	-	-	-
42	DST	Dr. Prabir Sarkar	SMMEE	Study of aesthetics in product design using eye-tracking equipment from a cognitive view	-	-	-	-	-
43	DST	Dr. C.K. Narayanan	Computer Science & Engineering	“Activity Learning in Smart Environments”	-	-	-	-	-
44	DST	Dr. Prabhat K. Agnihotri	SMMEE	Developed of A Multiscale Numerical Approach to Investigate the Origin of Indentation Size Effect	-	-	-	-	-

45	DST	Dr Tharamani Chikka Nagaiah	Chemistry	Carbon Nanotubes Based Electrochemical Immunosensor for Small Cell Lung Cancer Diagnosis	-	-	-	-	-
46	CSIR	Dr. Pushpender Pal Singh	Physics	Onset and Strength of Massive Transfer Events in Low Energy Heavy ION Reactions	-	-	-	-	-
47	DST (Nano Mission)	Dr. Rajendra Srivastva	Chemistry	Design, Synthesis and application of carbon-metal oxide/zeolite-metal oxide hybrid materials	-	-	-	-	-
48	DST	Dr. Rakesh Das under the mentorship of Dr. Navin Kumar	SMME	National Post-Doctoral Fellowship	-	-	-	-	-
49	ISRO SPL, VSSC	Dr. T.J. Dhilip Kumar	Chemistry	Chemical Kinetics of Molecular Collision Processes in Martian Atmosphere	-	-	-	-	-
50	DST	Dr. Shilpi Chaoudhary under the mentorship of Dr. Kailash Chand Jena	Physics	National Post-Doctoral Fellowship	-	-	-	-	-
51	DST	Dr. Prabal Banerjee	Chemistry	Studies of the reactivity of oxaziridine for electrophilic N-transfer and [3+3] cycloaddition with donor-acceptor cyclopropane: Construction of N-containing heterocycles having structural scaffolds of bioactive molecules	-	-	-	-	-
52	DRDO	Dr. Narinder Singh	Chemistry	Design, synthesis and development of chemosensors for explosive materials, warfare chemicals and organophosphates	-	-	-	-	-
53	MHRD - UAY	Dr. Harpreet Singh	SMME	Development of Cold-Spraying Based Additive Manufacturing Process for Industrial Application	-	-	-	-	-
54	MHRD - UAY	Dr. Dhiraj Kumar Mahajan	SMME	Experimentation & Simulations Assisted Enhancement of Energy Efficiency & Pollution Reduction in Hand-tool Industries	-	-	-	-	-
55	DST	Dr. Rakesh Kumar Maurya	SMME	Soot Particle number Emission Characterization and Investigation of Load Constraints in Reactivity Controlled Compression Ignition (RCCI) Engines	-	-	-	-	-
56	CSIR	Dr. Rajesh V Nair	Physics	Investigation of light transport and emission in resonant disordered Nanophotonic structures	-	-	-	-	-
57	DST	Dr. Meenakshi Verma (N-PDF) under the mentorship of Dr. Narinder Verma	Chemistry	National Post-Doctoral Fellowship	-	-	-	-	-

58	DST	Dr. Rajendra Srivastava	Chemistry	Synthesis and catalytic investigations of mesoporous metal-organic framework	-	-	-	-	-
59	Indian National Science Academy	Dr. Rajesh V. Nair	Physics	"Two-dimensional meta-surfaces to mold the light scattering and emission"	-	-	-	-	-
60	DST	Dr. Ranjan Das	SMME	Design and Development of a Solar Pond and Biomass Driven Thermoelectric Unit for Domestic Power Generation using Inverse Method	-	-	-	-	-
61	TBRL-DRDO	Dr. Jitendra Prasad	SMME	Simulation of MPV and Crew Dynamic against the Blast/Shock load of Mine Explosion	-	-	-	-	-
62	SERB-DST	Dr. Ravi Mohan Prasad	SMME	Selective Gas Detection and Protection of Sensing Layer in Harsh Environments using Silicon Containing Polymer-Derived Ceramic Filters	-	-	-	-	-
63	DST	Dr. Yashveer Singh	Chemistry	Acemannan-based nanogels to target microbicides to mucosal and sub-mucosal regions of vagina to prevent HIV-1 infection	-	-	-	-	-
64	IMPRINT Scheme	Dr. Harpreet Singh	SMME	Erosion, Corrosion and Deposition Resistant Coatings for Coal-Fired Boilers	-	-	-	-	-
65	IMPRINT Scheme	Dr. Dhiraj Kumar Mahajan, Dr. Ravi Mohan Prasad, Dr. S.S. Padhee (Co-PIs)	SMME	Design, development and demonstration of indigenous hydrogen storage and fuel cell system for mobile and stationary applications of 5kW capacity	-	-	-	-	-
66	INDO-MAXICO-DST	Dr. Narinder Singh	Chemistry	Photo degradation of azo dye contaminants by new hybrid ionic liquid decorated	-	-	-	-	-
67	DST-Inspire Faculty Award	Dr. Samir Chandra Roy	SMME	Experimental and numerical analysis of high-temperature deformation behaviour of 304LN stainless steel under cyclic loading condition	-	-	-	-	-
68	DST	Dr. Ranjan Das	SMME	Design and Development of Solar and Agricultural Waste-Based Building Cooling System	-	-	-	-	-
69	DST-Inspire Faculty Award	Dr. Neelkanth Nirmalkar	Chemical Engineering	A novel approach of generation of bulk nanobubbles in water for cleaning of contaminated surfaces and disinfection using ozone nanobubbles	-	-	-	-	-
70	SERB-DST	Dr. Swati Tyagi (N-PDF) under the mentorship of Dr. S.C. Martha	Mathematics	Analysis of advanced model of Neural Networks of integer and non-integer order: From fundamental to advanced theory	-	-	-	-	-

71	SERB-DST	Dr. Gagandeep Singh N-PDF under the mentorship of Dr. Narinder Singh	Chemistry	Receptor Design for the Molecular Recognition of Biologically Important Analytes and its Real Time Applicability	-	-	-	-	-
72	SERB-DST	Dr. Sachin Kumar	SMME	Damage Assisted Failure Analysis of Engineering Structures using Cohesive zone Approach and XFEM	-	-	-	-	-
73	India-UK Collaborative Industrial R&D Programme	Dr. Rohit Y Sharma & Dr. Ekta Singla	Electrical Engineering & ME	APATH: Affordable Preventative And Assistive Technology For Healthcare	-	-	-	-	-
74	SERB-DST	Dr. Richa Rani (N-PDF) under the mentorship of Dr. Narinder Singh	Chemistry	Fabrication of imidazole based nanoaggregates using different surfactants	-	-	-	-	-
75	DBT	Dr. Narinder Singh	Chemistry	Surface modulation of CuS quantum dots using biginelli compounds for construction of a portable fluorescence sensor for bacteria	-	-	-	-	-
76	DST	Dr. Manoj Pandey	Chemistry	Development of theoretical models to describe ^{14}N - ^1H decoupling in solid-state NMR	-	-	-	-	-
77	DST	Dr. S. R. Sudarshan	CSE	Big data analysis: A key to understand the dynamics of collaborative knowledge building	-	-	-	-	-
78	DST	Dr. Rakesh Kumar	Physics	Experiments for development of a technique for smooth directional etching a grapheme sheet	-	-	-	-	-
79	SERB-DST	Dr. Chandrakant Kumar Nirala	SMME	Development of a Thermal Model based Real-time Tool Wear Monitoring and Compensation System for Micro-EDM Processes	-	-	-	-	-
80	SERB	Dr. Jeevan Jyoti	SMME	Development of Graphene-Oxide Hydroxylapatite Coatind for Orthopedic Implants	-	-	-	-	-
81	SERB	Dr. Varinder Saini	Civil Engineer	Analyzing pattern of urban growth and prediction of future sprawl in and around Chandigarh city using geospatial techniques	-	-	-	-	-
82	DBT	Dr. Srinatsava Naidu	CBME	Dr. Ramalingaswami Re- Entry Fellowship	-	-	-	-	-
83	Indo-U.S. Science and Technology	Prof. Harpreet Singh	SMME	Indo-U.S. Joint Center for Development of Advanced Materials or Bio-implants	-	-	-	-	-

84	SERB-DST	Prof. Harpreet Singh	SMMEE	VAJRA Faculty Scheme	-	-	-	-	-
85	NBHM-DAE	Dr. Tapas Chatterjee	Mathematics	Study of non-vanishing and transcendence results of some L-functions	-	-	-	-	-
86	MHRD	Dr. Rakesh Kumar Maurya	SMMEE	Unnat Bharat Abhiyan	-	-	-	-	-
87	RCUK-DBT	Prof. Harpreet Singh	SMMEE	Transforming India's Green Revolution by Research and Empowerment for Sustainable food Supplies	-	-	-	-	-
88	DST	Department of Electrical Engineering	Electrical Engineering	FIST Program	-	-	-	-	-
89	DRDO	Dr. Mukesh Kumar	Physics	Process optimization and development of thermally stable solar-blind β -Ga O photodetector	-	-	-	-	-
90	Newton-Bhabha Grant (India-UK)	Prof. Deepak Kashyap	Civil	Impact of rainwater harvesting in India on groundwater quality with specific reference to fluoride and micropollutant	-	-	-	-	-
91	SERB	Prof. R. P. Chhabra	Chemical Engineering	J C Bose Fellowship	-	-	-	-	-
92	Digital India Corporation (Formaly Media Lab Asia)	Dr. Rohit Y. Sharma	Electrical Engineering	Award of Young Faculty Research Fellowship	-	-	-	-	-
93	ICSSR	Dr. Smruti Ranjan Behera	Humanities & Social Science	Foreign Direct Investment and Innovative Performance of Local Firms: Evidence across Indian Manufacturing Industries	-	-	-	-	-
94	DBT	Dr. Himanshu Tyagi	SMMEE	Solid tumor targeting using homing peptides and plasmonic photothermal technique	-	-	-	-	-
95	SERB-DST	Dr. L. Vijay Anand	Civil	Understanding and Modeling the Reactive Transport of Uranium Contaminated Groundwater of Malwa Region, Punjab	-	-	-	-	-
96	Indian-Israeli Joint Project	Venkata M. Viswanath as (Co-PI), Prof. Rakesh Lodha, AIIMS, New Delhi (PI)	CSE	LONGITUDINALBIG-DATAFOR PREDICTION AND PRECISION IN CRITICAL CARE MEDICINE	-	-	-	-	-

97	SERB	Prof. Javed Naim Agrewala	CBME	J C Bose Fellowship	-	-	-	-	-
98	DBT (Joint reseach project with Tezpur University, Assam,	Dr. Durba Pal	CBME	Understanding the role of adipose tissue remodelling in exercise induced insulin sensitivity	-	-	-	-	-
99	Indian-Israeli Joint Project	Dr. Somitra Kr. Sanadhya	CSE	Improving automated cryptanalysis	-	-	-	-	-
100	SERB	Dr. Manoranjan Mishra	Mathematics	Modeling and simulation of hydrodynamic instability with chemical reaction	-	-	-	-	-
101	SERB	Dr. Durba Pal	CBME	Role of microRNAs in obesity induced adipocyte reprogramming causing inflammation and insulin resistance	-	-	-	-	-
102	Indian Space Research Organisation (ISRO)	Dr. Lipika Kabiraj	Mechanical Engineering	Nanoparticle-enhanced gel propellants	-	-	-	-	-
Total					-	-	2.46	2.04	1.62

(Rs. in Crores)

mt					Total Sanctioned Amount	Project Status
2014-15	2015-16	2016-17	2017-18	2018-19		
-	-	-	-	-	0.11	Running
-	-	-	-	-	0.19	Running
0.31	-	-	-	-	0.31	Running
0.52	-	-	-	-	0.52	Running
0.21	-	-	-	-	0.21	Running
0.45	-	-	-	-	0.45	Running
0.19	-	-	-	-	0.19	Running
0.13	-	-	-	-	0.13	Running
0.26	-	-	-	-	0.26	Running
-	0.24	-	-	-	0.24	Running
-	0.19	-	-	-	0.19	Running
-	2.25	-	-	-	2.25	Running
-	0.54	-	-	-	0.54	Running
-	0.29	-	-	-	0.29	Running

-	0.23	-	-	-	0.23	Running
-	0.39	-	-	-	0.39	Running
-	0.16	-	-	-	0.16	Running
-	0.15	-	-	-	0.15	Running
-	0.25	-	-	-	0.25	Running
-	-	-	-	-	0.87	Running
0.17	0.16	-	-	-	0.69	Running
0.04	-	-	-	-	0.04	Running
-	0.23	-	-	-	0.23	Running
-	0.20	-	-	-	0.20	Running
-	-	-	-	-	0.30	Running
0.22	-	-	-	-	0.22	Running
-	-	-	-	-	0.28	Running
0.10	-	-	-	-	0.10	Running
-	0.23	-	-	-	0.23	Running
-	0.45	-	-	-	0.45	Running

-	-	-	-	-	1.55	Running
0.65	-	-	-	-	0.65	Running
-	-	-	-	-	0.26	Running
-	-	-	-	-	2.20	Running
-	0.60	-	-	-	0.60	Running
-	2.02	0.44	-	-	2.46	Running
-	0.25	-	-	-	0.25	Running
-	0.22	-	-	-	0.22	Running
-	0.62	-	-	-	0.62	Running
-	0.24	-	-	-	0.24	Running
-	1.460	-	-	-	1.46	Running
-	0.16	-	-	-	0.16	Running
-	0.19	-	-	-	0.19	Running
-	-	0.24	-	-	0.24	Running

-	-	0.79	-	-	0.79	Running
-	-	0.16	-	-	0.16	Running
-	-	0.50	-	-	0.50	Running
-	-	0.18	-	-	0.18	Running
-	-	0.21	-	-	0.21	Running
-	-	0.19	-	-	0.19	Running
-	-	0.59	-	-	0.59	Running
-	-	0.44	-	-	0.44	Running
-	-	2.85	-	-	2.85	Running
-	-	0.47	-	-	0.47	Running
-	-	0.49	-	-	0.49	Running
-	-	0.20	-	-	0.20	Running
-	-	0.19	-	-	0.19	Running

-	-	0.47	-	-	0.47	Running
-	-	0.15	-	-	0.15	Running
-	-	0.44	-	-	0.44	Running
-	-	0.17	-	-	0.17	Running
-	-	0.43	-	-	0.43	Running
-	-	0.42	-	-	0.42	Running
-	-	0.96	-	-	0.96	Running
-	-	0.75	-	-	0.75	Running
-	-	-	0.35	-	0.35	Running
-	-	-	0.35	-	0.35	Running
-	-	-	0.38	-	0.38	Running
-	-	-	0.35	-	0.35	Running
-	-	-	0.19	-	0.19	Running

-	-	-	0.19	-	0.19	Running
-	-	-	0.16	-	0.16	Running
-	-	-	0.15	-	0.15	Running
-	-	-	0.14	-	0.14	Running
-	-	-	0.14	-	0.14	Running
-	-	-	0.39	-	0.39	Running
-	-	-	0.13	-	0.13	Running
-	-	-	0.21	-	0.21	Running
-	-	-	0.48	-	0.48	Running
-	-	-	0.14	-	0.14	Running
-	-	-	0.19	-	0.19	Running
-	-	-	0.33	-	0.33	Running
-	-	-	0.31	-	0.31	Running

-	-	-	0.23	-	0.23	Running
-	-	-	0.14	-	0.14	Running
-	-	-	0.04	-	0.04	Running
-	-	-	0.92	-	0.92	Running
-	-	-	2.42	-	2.42	Running
-	-	-	0.54	-	0.54	Running
-	-	-	0.75	-	0.75	Running
-	-	-	0.88	-	0.88	Running
-	-	-	0.37	-	0.37	Running
-	-	-	0.07	-	0.07	Running
-	-	-	-	0.21	0.21	Running
-	-	-	-	0.28	0.28	Running
-	-	-	-	0.36	0.36	Running

-	-	-	-	0.95	0.95	Running
-	-	-	-	0.75	0.75	Running
-	-	-	-	0.31	0.31	Running
-	-	-	-	0.07	0.07	Running
-	-	-	-	0.48	0.48	Running
-	-	-	-	0.20	0.20	Running
3.25	11.72	11.72	10.94	3.60	47.34	

















