NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

Sponsored Research Projects Completed

As on 15.10.2026

Sr. No.	Year	Department	Principal Investigator & Co-Principal Investigator	Title of Project	Funding Agency	Amount (Rs.) in lakh
1	2014-15	Chemistry	Dr. Amilan Jose D.	Supermolecular fluorescent probes for the selective detection of biological signaling molecule (H2S) and real time assay	SERB-DST	26.00
2	2014-15	Chemistry	Dr. Amrita Ghosh	Development of polyoxometalate based light induced water oxidation catalysts	SERB-DST	25.00
3	2014-15	Chemistry	Dr. Avijit Kumar Paul	New Magnetic Materials Applicable as Colored Pigments and Catalysts	DST-INSPIRE	35.00
4	2014-15	Chemistry	Dr. Chetti Prabhakar	Design, Synthesis and Optoelectronic Properties of Thiophene Based Functional Organic Materials	SERB-DST	22.80
5	2014-15	Chemistry	Dr. Ghule Vikas D	Quantum Chemical design, synthesis and energetic properties study on tetrazole based high energy materials	SERB-DST	26.29
6	2014-15	Chemistry	Dr. M. Senthil Kumar	Neutral and Cationic Ruthenium Complexesfor Amidation and Related Reactions in Aqueous and Biphasic Medium	SERB-DST	26.00
7	2014-15	Physics	Dr. R.P. Chauhan	Study of Ion Beam Induced Modifications in Semiconducting Nanostructures	IUAC	10.00
8	2014-15	Physics	Dr. C.R. Mariappan	Silver nano-particle embedded bio-glasses: Electrical polarization and assessment of their biocompatibility	SERB-DST	23.75
9	2014-15	Physics	Dr. Yashashchandra Dwivedi	Synthesis of Novel Random Laser Materials for Advance Photonic Applications	SERB-DST	26.23
10	2014-15	Humanities & Social Sciences	Dr. Ashwani	Impact Assessment of RIce Varieties Developed by ICAR and SAUs in India	NCAER	1.50
11	2015-16	Chemistry	Dr. Avijit Kumar Paul	Multifunctional Metal Organic Framework Construction by O/-N Donor Ligands	SERB-DST	29.16
12	2016-17	Chemistry	Dr. Amilan Jose D	Nano-Scale Vesicles Modified Metal Complexes For Therapeutic Carbon Monoxide (CO) Delivery	CSIR-EMR	15.50
13	2016-17	Computer Applications	Dr. Sarika Jain	Intelligent Real Time Situation Awareness and Decision Support System for Indian Defense.	DR&IPR-DRDO	40.52
14	2016-17	Chemistry	Dr. Anita Bhatia, PI Dr. M. Senthil Kumar (Mentor/Guide)	Synthesis of Water Soluble Cobalt Complexes and their Catelytic activities in Aqueous and Biphasic Medium	DST under Women Scientific Scheme	23.20
15	2016-17	Physics	Dr. Anurag Gaur	Investigations on Hexaferrites to search strong magnetolectric compounds at room temperature	CSIR	18.90
16	2016-17	Computer Engg.	Dr. B.B. Gupta	Defending Distributed Denial of Service (DDoS) Attacks using Dynamic Resource Ownership and Economic Incentive Based Solution	SERB-DST	23.06

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17	2017-18	Chemistry	Dr. Avijit Kumar Paul	Detailed investigations on crystal and magnetic structures of frustrated double perovskites Ca2BRuo-6(B=Ga, In, Y, Sc) and their Lanthanum composites	UGC-DAE-CSR	10.35
18	2017-18	Civil Engg.	Dr. Mahesh Pal, PI, (CED) Dr. Mantosh, Biswas, Co-PI (CoE)	Classification and feature selection of AVIRIS-NG airborne hyperspectral data for crop cover mapping/urban mapping	SAC (ISRO)	20.02
19	2017-18	Physics	Dr. J.K. Quamara Dr. Anurag	Dielectric Relaxation Investigation in Swift Heavy Ion Irradiated Ferroelectric Ceramic/Polymer Nanocomposites	IUAC	5.79
20	2017-18	Business Administration	Dr. Manish Kumar Jha	Students Perception About Introduction of Human Values and Professional Ethics As Compulsory Course In Engineering Education An Exploratory Study	ICPR	1.00
21	2017-18	Mechanical Engg.	Dr. Avadhesh Yadav	Design and development of solar assisted solid desiccant air conditioning system for India	SERB-DST	21.65
22	2017-18	Civil Engg.	Dr. Mahesh Pal, PI, (CED) Dr. Mantosh, Biswas, Co-PI (CoE)	Fusion of Optical and Multi - frequency Multi - polarimetric SAR data for Enhanced Crop/Vegetation and Urban Mapping	SAC (ISRO)	17.44
23	2017-18	Mechanical Engg.	Dr. J.P. Misra	Development of Ultrasonic Assisted Electrochemical Mechanical Finishing (UAECMF) Process with Modular Tooling System for Precision Finishing of Gears	SERB-DST	16.50
24	2017-18	Electrical Engg.	Saurabh Chanana	Modelling and Simulation of Explosive Driven Helical Flux Compression Generator	TBRL-DRDO	9.80
25	2017-18	Electronics & Comm. Engg.	Dr. Vikas Mittal PI (ECE) Dr. Monika Mittal, Co-PI (EED)	Data Fusion Algorithms for Vehicle Detection and Classification System	TBRL-DRDO	21.39
26	2017-18	Chemistry	Dr. Vidya VM, PI Dr. Chetti Prabhakar (Mentor/Guide)	Computational Design, Synthesis and Optoelectronic Properties of Functionalized 1,3,5- Triazine compounds and their Metal Complexes	DST under Women Scientific Scheme	16.80
27	2017-18	Electronics & Comm. Engg.	Dr. Ashutosh Nandi	Physics Based Accurate Analytical Modeling of AIGaN/GaN High Electron Mobility Transistors	DRDO	9.27
28	2017-18	Physics	Dr. Prakash Chand	Development of Novel Electrode Material for Supercapacitor Applications	SERB-DST	41.32
29	2017-18	Mechanical Engg.	Dr. Rajneesh	Design and Development of a Hybrid Powered Liquid Desiccant System for Air Conditioning and Fresh Water Production	SERB-DST	20.00
30	2017-18	Computer Engg.	Dr. Virender Ranga	Partition Recovery of Wireless Sensor Networks with the integration of Unmanned Aerial Vehicles (UAVs)	SERB-DST	13.68
31	2017-18	Mechanical Engg.	Dr. Gulshan Sachdeva	Performance Enhancement of Vapor Compression Refrigeration System Using Ejector as an Expansion Device	SERB-DST	14.32

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32	2017-18	Computer Engg.	Dr. Jitender Kumar Chhabra	Design and Development of a Noval Approach for Secure Storage on External Media and Lossless Retrieval	JCB-DRDO	6.20
33	2017-18	Computer Engg.	Dr. Brij Bhooshan Gupta	Implementation of Security Features in Smart Cards	JCB-DRDO	9.37
34	2017-18	Physics	Dr. R.P. Chauhan	Modifications in the Properties of II-VI Semiconducting Nanostructures By Ion Beam	IUAC-UGC	10.11
35	2017-18	Chemistry	Dr. Amilan Jose D., PI (Chemistry) Dr. C.R. Mariappan, Co-PI, (Physics)	Photoinduced release of therapeutic Nitric Oxide (NO) from functionalized sefl-assembled nanovesicles.	DBT	44.44
36	2018-19	Physics	Dr. Yashashchandra Dwivedi	Feasibility of Development of Spectrally Selective Absorbing Materials for Laser Absorbing Coatings	DRDO	9.13
37	2018-19	Physics	Dr. Anurag Gaur, -PI (Physics) Dr. Ashok Kumar,Co-PI (Physics) Dr. Dipti Gupta (Co-PI), IIT, Bombay, Powai	Nanomaterials for stable and high efficiency inorganic-organic perovskite- tandem solar cells	CSIR	20.00
38	2018-19	Chemistry	Dr. Chetti Prabhakar	Design Synthesis and Optoelectronic Properties of Squaraine and Croconine based Functional Organic Materials	CSIR	23.96
39	2018-19	Physics	Dr. Neena Jaggi	Localized Surface Plasmon Resonance effect of metal nanoparticles (Au,Ag etc.) on the optical properties of nanophosphors for Plasmon Enhanced Fluorescence sensors	CSIR	19.90
40	2018-19	Chemistry	Dr. Amilan Jose D.	Development of Highly Sensitive Colorimetric and Fluorescent Moisture Sensors, Based on Small Molecules, Chemically Modified Paper and Electrospun Nanofibrous Materials	SERB-DST	31.86
41	2018-19	Mechanical Engg.	Dr. Punit Kumar, PI (MED) Dr. Lalit Thakur, Co-PI (MED)	Synthesis and Characterization of Ceramic-Metal Multilayer Functionally Graded Armor Materials with Improved Ballistic Performance	DRDO (ARMREB)	34.51
42	2018-19	Civil Engg.	Dr. S.N. Sachdeva	Research Project for Soil Strength Mapping & Stabilization	Engineer-in-Chief, Haryana PWD B&R, Chandigarh	3.00
43	2018-19	Mechanical Engg.	Dr. Avadhesh Yadav	Development of Low Cost Scheffler Solar Concentrator for Domestic Indoor Cooking and Heating Application for Rural Areas	ONGC Energy Centre Trust	7.29

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44	2018-19	Mechanical Engg.	Dr. M.P. Maiya PI, IIT Madras, Dr. Saourav Mitra, Co-PI, IIT Kharagpur Dr. Avadhesh Yadav Co-PI, NIT KKR	Desiccant Solar Still	IMPRINT-II SERB-DST	60.02
45	2018-19	Electronics & Comm. Engg.	Dr. Gargi Dixit, PI Prof. Brahmjit Singh, (Mentor/Guide)	Performance and Improvement Study of Bi-Frequency MILO	DST under Women Scientific Scheme A (WOS-A)	26.80
46	2018-19	Electrical Engg.	Dr Bhanu Pratap, (PI) , (EED) Dr Punit Kumar Co-PI, (MED) Dr Pankaj Chandna Co-PI (MED)	Design, Fabrication & Testing Of Active Magnetic Bearing For Centrifugal Pumps With VFD	Indian Navy	29.97
47	2018-19	Physics	Dr. C.R. Marriappan	Development of spinel-type metal oxide/reduced, graphene oxide novel nanocomposites for NO-x gas sensing application	UGC-DAE CSR	8.00
48	2018-19	Chemistry	Dr. Ghule Vikas D. PI Dr. Ram Kumar Tittal Co-PI	Development of Insensitive High Energy Materials Containing Heterocyclic Backbone Substituted with Amino, Azido and Nitro Explosophores	DRDO (ARMREB)	36.36
49	2018-19	Mathematics	Dr. Smita Sonker	Study of Degree of Approximation and Absolute Summability Factors of Infinite Series	SERB-DST	17.71
50	2018-19	Physics	Dr. Anurag Gaur, PI, (Physics) Dr. Amrish Panwar, Co-PI AP Physics DTU Delhi	Utilization of agricultural waste as an electrode material for energy storage devices	SERB-DST	41.49
51	2019-20	Business Administration	Dr. Neeraj Kaushik, PI, Dr. Rajender Kumar, Co-PI	Correlation between Psychological and Physiological Parameters of Stress Among Staff and Students-AN Empirical Study	LSRB (DRDO)	36.64
52	2019-20	Civil Engg.	Dr. Shailu Dalal Guin, PI Prof. Surinder Deswal (Mentor/Guide)	Removal of organic and inorganic toxins from electronic waste using isolated bacterial species and competent phytoremediators	DST under Women Scientific Scheme A (WOS-A)	28.57
53	2019-20	Physics	Dr. C.R. Mariappan	"Development of novel solid lithium ionic conductors for advanced lithium ion battery applications"	Alexander von Humboldt Foundation, Germany	42.00
54	2019-20	Civil Engg.	Praveen Aggarwal, PI	"Performance Assessment of Roads Constructed Using Waste Plastics	NRIDA	20.50
55	2019-20	Physics	Dr. R.P. Chauhan	"Behavior of Indoor radon-thoron decay products: CFD Simulations and Validation through measurement "	BRNS	33.58

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56	2021-22	Mechanical Engg.	Dr. Gian Bhushan -PI, Dr. Pankaj Chandna-Co-PI	Design and Analysis of Jet Deflector and its Support Structure	SPIC (DRDO)	9.84
57	2021-22	Mechanical Engg.	Dr. Pankaj Chandna-PI Dr. Gian Bhushan -Co-PI	Design of a light weight container for transportation and storage of a store	SPIC (DRDO	12.90
58	2021-22	Electrical Engg.	Dr. Preet Lata PI, Dr. Shelly Vadhera, (Mentor/Guide)	Waste Management in North Indian Villages by Developing Reliability based Microgrid with Solar and Biomass Energy	WOS-B Scheme Under DST	23.90
59	2021-22	Physics	Dr. Ashavani Kumar PI Dr. Prakash Chand Co-PI	Development of synergetic dielectric and magnetic loss materials composite for high performance microwave absorption applications	DRDO	31.21
60	2022-23	Chemistry	Dr. Avijit Kumar Paul	New Perovskite Oxides for Application in Energy Generation and Storage Purpose	UGC-DAE-CSR	1.35
61	2022-23	Chemistry	Dr. Avijit Kumar Paul	Boosting of Energy Generation and Storage Properties by the Composite Materials of Multinary Metal Oxides and Carbon Allotropes Synthesized from Agricultural Bio-Wastes	SERB-DST	29.63
62	2022-23	Chemistry	Dr. Amilan Jose D.	Supramolecular organic-inorganic hybrid gels for the light-activated theapeutic carbon monoxide (CO) delivery	SERB-DST	34.96
63	2022-23	Chemistry	Dr. M. Senthikumar	Ruthenium Catalysed Dehydrogenation Reaction as a Platform for Hydrogen Storage Materials	SERB-DST	27.10
64	2022-23	Mechanical Engg.	Dr. Ravi Pratap Singh	Design Development and Performance Analysis of Hybrid Abrasive Assisted Micro Electrochemical Machining (HAAMECM) Process	SERB-DST	7.38
65	2022-23	Electronics & Comm. Engg.	Dr. Brahmjit Singh, PI Dr. Poonam Jindal, Co-PI Dr. Pankaj Verma, Co-PI	Development of deep learning enabled algorithm for automatic modulation recognition in blind RF environment	ISRO	19.38
66	2022-23	Computer Engg.	Dr.Priyanka Ahlawat, PI Dr. Mayank Dave, Co-PI	Key management for secure multicast applications in space terrestrial integrated network	ISRO	22.43
67	2023-24	Computer Applications	Dr. Sandeep Kumar Sood-PI Dr. Munish Bhatia, Co-PI	Quantum Computing-inspired Vehicular Route Optimization for Industrial Applications	Ministry of Electronics & Information Technology (MeitY)	8.00
68	2023-24	Computer Engg.	Dr. Lillie Dewan Chief Investigaotr, (EED) Dr. Ritu Garg, PI, (CoE) Dr. V.G. Durgarao Rayudu, Co-PI, (EED)	UAV based Urban Mapping of NIT Campus using Deep Neural Network under Capacity Building for Human Resource Development in Unmanned Aircraft System (Drone and related Technology)	Ministry of Electronics & Information Technology (MeitY) Through IITDM Kurnool or CDAC Hyderabad	2.50

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69	2023-24	Humanities & Social Sciences	Dr. Ashwani , PI (HSS) Dr. Blessy Sarah Mathew, Co-PI, LPU, Punjab, Dr. Nittymol Antony, Co-PI Bengaluru and Dr. Sarwdaman Kashyap, Co-PI, Bihar	Impact Assessment of PM Kisan Samman Nidhi Scheme	ICSSR	14.00
70	2023-24	Physics	Dr. Tanmay Maji, PI	Soft-collinear effective theory approach to precision angularity event shapes at high energy scattering experiments	SERB-SRG	17.00
71	2023-24	Humanities & Social Sciences	Dr. Ashwani	Macroeconomics Forecasting Framework for Vision Policy Document"	NITI Aayog	2.00
72	2023-24	Computer Engg.	Dr. Lillie Dewan,Chief Investigaotr (EED) Dr. Ritu Garg, PI , (CoE) Dr.Jyoti Ohri , Co-PI , (EED)	Crop Health Monitoring and Yield Prediction using Deep Learning with Drone Imagery	Ministry of Electronics & Information Technology (MeitY) Through IITDM Kurnool or CDAC Hyderabad	2.50
73	2024-25	Electrical Engg.	Dr. Shelly Vadhera, PI Dr. MPR Prasad , Co-PI	Study of Safety and Performance Parameters of Electrical timer relays for Industrial purposes-Pneumatic, Motorized and Electronic	Bureau of Indian Standards (BIS)	4.25
74	2024-25	Physics	Dr. Yashashchandra Dwivedi, PI Dr. Amilan Jose D, Co-PI (Chemistry)	Development of Infrared Band Absorbing Materials	DRDO	39.09
75	2024-25	Physics	Dr. Yashashchandra Dwivedi	Development of UV resistant long phosphorescent nanofibers	ISRO	0.72
76	2024-25	Civil Engg.	Dr. Praveen Aggarwal, PI Mr. Manu Pratap Singh, M.Tech (TE) Civil Engg. Deptt. NIT Kurukshetra	Self-healing Flexible Pavement using Waste Oil Capsules as Rejuvenators	ISRO	1.73
77	2024-25	Computer Engg.	Dr. Ankit Kumar Jainl, PI Mr. Rohit Kumar, B.Tech Computer Engg. Deptt. NIT Kurukshetra	Development of an Efficient Smishing Detection Technique for Secure Communication	ISRO	1.84
78	2024-25	Electronics & Comm. Engg.	Dr. Brahmjit Singh	Security enhancement in non-terrestrial networks using machine learning	ISRO	1.60

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79	2024-25	Computer Engg.	Dr. Jitender Kumar Chhabra	Design and development of a system for storage of crucial data in mobile phone in an in-visible form	ISRO	2.87
80	2024-25	Computer Engg.	Dr. Jitender Kumar Chhabra	Software for storing a file in between Dummy files at Sector level in an External Storage Drive	ISRO	1.23
81	2024-25	Humanities & Social Sciences	Dr. Geeta Sachdeva, PI Dr. Mahabir Narwal, Co-PI KUK	Impact Assessment of Pradhan Mantri Street Vendor's AtamNirbhar Nidhi Yojna (PM SVANidhi) on Street Vendors in Urban Haryana	ICSSR	10.00
82	2024-25	Mechanical Engg.	Dr. Rajesh Kumar, PI	Design of Advanced h-BN/MOFs (Metal-organic Frame works) based nanocomposites for hydrogen storage	SERB-DST	10.50
83	2025-26	Mechanical Engg.	Dr. Dilbagh Panchal, PI Dr. Manoj Kumar Sinha, Co-PI	FMEA analysis of aramid-based protective clothing: gloves and sleeves	High Performance Textiles Pvt. Ltd. (HPT) , Sonepat	5.60