

List of Sponsored projects from Govt./ Non-Govt. funding agencies (Last five years)

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (in Lakhs INR)	Duration of the project	Agency
On Developing Reliable Scale-up Procedures and Design Optimization for Pneumatic Fly Ash Conveying Systems for 500/800/1000 MW Units	Dr. S.S.Mallick (PI), Dr. Anu Mittal (Co-PI) Dr. Gautam Setia (Co-PI) Atul Sharma (Co-PI)	Mechanical Engineering	2017	115.00	2 years	NTPC
Design and Development of a Three-Link Rigid-Flexible Manipulator for High Speed Operations	Dr. A. Singla, Dr. T. K. Bera Dr. SK Saha Dr. SP Singh	Mechanical Engineering	2017	45.30	3 years	SERB EMR
Development of electron beam cured carbon fiber/epoxy laminate filled with carbon nano tubes for mechanical joints	Dr. J S Saini, Dr. H. Bhunia	Mechanical Engineering	2017	29.11	3 years	DAE-BRNS
Development of Microwave Processed Cavitation Erosion Resistant Cladding	Dr. Dheeraj Gupta (PI) Dr. Vivek Jain (Co-PI)	Mechanical Engineering	2017	17.16	3 years	SERB EMR
Computational and experimental study of flow-induced vibration of a plate with piezoelectric material to improve	Dr. Ashish Purohit	Mechanical Engineering	2017	24.00	3 years	DST-SERB

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performance of wind vibration energy harvester						
Experimental Investigation and CFD modelling of slurry pipeline for flow of multiparticulate slurry at higher concentrations	Dr. Satish Kumar / Dr. S K Mohapatra	Mechanical Engineering	2016	37.09	3 years	DST-SERB
Theoretical Modelling and Experimental Investigation of Nanofluid-Based Volumetric Absorption Concentrating Solar Collector	Dr. Vikrant Khullar	Mechanical Engineering	2016	24.91	3 years	DST-SERB
Structural response characteristics of CNT reinforced multilayered composite and sandwich plates in hygro-thermal environment	Dr. Neeraj Grover	Mechanical Engineering	2016	19.04	3 years	DST-SERB
Design and Development of a Novel Honing Type Magnetorheological Finishing Process	Dr. Anant Kumar Singh	Mechanical Engineering	2015	29.69	3 years	DST-SERB

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Floating wick basin type vertical multiple effect diffusion solar still with waste heat recovery	Dr. Madhup K Mittal	Mechanical Engineering	2014	13.36	3 years	DST
Multi response optimization of process parameters for the improved part accuracy in FDP process	Dr. Ajay Batish	Mechanical Engineering	2013	9.75	3 years	AICTE
Design and Control of Intelligent Autonomous Vehicle for Indian Sea Ports	Dr.T.K. Bera	Mechanical Engineering	2013	6.00	2 years	UGC
Biocalcification process of photoautotrophic bacteria in concrete environments	Dr MS Reddy (PI)	Department of Biotechnology	2017	15.60	2 years	DBT
Biomediated cementation for concrete problems	Dr. Shweta Goyal, Dr MS Reddy (Co PI)	Department of Biotechnology	2017	42.12	3 years	DST (SEED)
Host mediated silencing of cellulose synthase genes of Phytophthora infestans for late blight resistance in Indian potato cultivar(s	Anil Kumar	Department of Biotechnology	2017	25.00	3 years	CSIR

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Development of self-healing concrete using bacteria	Dr. Shweta Goyal, Dr MS Reddy (Co PI)	Department of Biotechnology	2017	52.60	3 years	NBCC (India) Limited
DST-SERB under Extramural Scheme, "Nano-bioremediation of butachlor herbicide"	Dinesh Goyal (PI)/Shekhar Agnihotri (Co-PI)	Department of Biotechnology	2017	34.80	3 years	DST-SERB
Novel gene pool from copper polluted soil ecosystem using metatranscriptomic approach	Dr. MS Reddy	Department of Biotechnology	2016	15.00	3 years	CSIR
Utilization of banana stem juice for renewable energy and value added products	Dr. MS Reddy	Department of Biotechnology	2016	25.00	3 years	Network project: ACIRD, Yamunanagar and FRI Dehradun
DST-SERB, under Young Scientist Scheme, "Production of high fructose syrup from cellulosic agro-waste using dual enzyme immobilization on nano-	Shekhar Agnihotri	Department of Biotechnology	2016	27.30	3 years	DST-SERB

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template as recyclable biocatalysts“						
Isolation and Characterization of Xanthine oxidase inhibitors from endophytic fungi for treatment of Hyperuricemia and Gout	Sanjai Saxena	Department of Biotechnology	2015	29.85	3 years	National Biodiversity Board , Department of Biotechnology, Govt. of India
Cloning and characterization of genes of Glutathione biosynthesis in ectomycorrhizal fungi	Dr. MS Reddy	Department of Biotechnology	2014	29.50	3 years	DBT
Green polymers for water treatment	Dr M Ghosh	Department of Biotechnology	2014	23.57	2 years	DST-UKIERI
Development of treatment and regeneration technology for phytoestrogens from waste water streams	Dr M Ghosh	Department of Biotechnology	2014	14.30	3 years	CSIR

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Durability enhancement and prevention of damages in RC structures using bacteria	Dr. MS Reddy CoPI: Dr. Shweta Goyal	Department of Biotechnology	2014	53.90	3 years	DST-SERB
In Silico and In vitro approach to identify immunogenic peptides H1N1 Virus as a target for Vaccine design	Dr. M. Baranwal	Department of Biotechnology	2013	23.60	3 years	DST-SERB
Association of Single Nucleotide Polymorphisms and Methylation status in the Wnt and AhR signaling pathways with risk for occurrence of Lung Cancer in a North Indian Population.	Siddharth Sharma-PI/Dr Navneet Singh-Co-PI Associate Professor-Biotechnology	Department of Biotech and dept of Pulmonary medicine PGIMER	2012	27.00	Three years	I.C.M.R
Detection of Corrosion by Ultrasonic and Acoustic Emission Techniques/Department of Science and Technology	Shruti Sharma, Sandeep Kumar Sharma	Department of Civil Engineering (CED)/ Department of Mechanical Engineering (MED)	2013	42.00	3 years	Science and Engineering Research Board (SERB)
Investigation of corrosion and its progression in ship hulls/Naval Research Board	Shruti Sharma, Sandeep Kumar Sharma	Department of Civil Engineering (CED)/ Department of Mechanical Engineering (MED)	2013	24.60	3 years	Naval Research Board (NRB)

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Behavior of Corroded and Corrosion Repaired RC Beams using Advanced Non-Destructive Techniques of Infrared Thermography (IRT) and Digital Image Correlation (DIC)	Shruti Sharma	Department of Civil Engineering	2017	32.88	3 years	SERB
Analysis of Virus Transport through SubSurface Media	Dwarika Nath Ratha	Department of Civil Engineering	2017	23.46	3 years	CSIR
Behaviour of External Beam Column Joint Retrofitted using UHP-HFRC	Prem Pal Bansal	Department of Civil Engineering	2017	87.47	3 years	Science and Engineering Research Board (SERB)
Frequency Support Oriented E-client Scheduling Mechanism for Data Centres and Electric vehicles in Smart City	Dr. Neeraj Kumar	Department of Computer Science and Engineering	2016	18.70	3 years	TCS Innovations Lab
Design a Distributed Network for Production Company using Facility Allocation Algorithms	§ Dr. Vijay Kumar (PI)	Department of Computer Science and Engineering	2016	7.00	1 year	Thapar University
Mortgage App Stack	Dr. Maninder Singh (PI)	Department of Computer Science and Engineering	2017	5.50	1 year	AVANTHA Business

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An Unsupervised Language Independent Text Stemmer for Information Retrieval	Dr. Jasmeet Singh	Department of Computer Science and Engineering	2017	2.25	1 year	King Abdulaziz University (KAU), Jeddah, Saudi Arabia
Development of Novel Network Traffic Dataset Abridging Technique for Intrusion Detection System	Dr. Raman Singh	Department of Computer Science and Engineering	2017	4.00	1 year	Thapar University
Framework for Enabling Data portability between Heterogeneous Cloud Storage	Dr. Rinkle Rani (PI) Dr. Karamjeet Kaur (Co-PI)	Department of Computer Science and Engineering	2013	8.60	3 years	UGC
Autonomic Scheduling for Cloud based Scientific Applications	Dr. Inderveer Chana (PI) Dr. Anju Bala	Department of Computer Science and Engineering	2015	6.90	3 years	CSIR
Automatic Generation of Sign Language from Hindi Text for Communication and Education of Hearing Impaired People	Dr. Parteek Bhatia & Dr. Sanmeet Bhatia	Department of Computer Science and Engineering	2016	17.26	3 years	DST
Distributed Data Deduplication Technique for Efficient Cloud Storage System	Dr. Inderveer Chana (Co-PI)	Department of Computer Science and Engineering	2017	24.80	3 years	DST
An Efficient Software Defined Network (SDN) based Framework for Big	Dr. Neeraj Kumar (PI) & Dr. Raman Singh (Co-PI)	Department of Computer Science and Engineering	2017	15.12	3 years	DST

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Data Processing in Cloud Data Center						
QoS aware Energy Management Scheme for Self-Sustainable Data Centres using Renewable Energy Sources	Dr. Neeraj Kumar	Department of Computer Science and Engineering	2017	14.95	3 years	DST
Tox2020: Toxicity Prediction of Pre-clinical Trial Drug using Physicochemical Properties and Machine Learning Approaches	Dr. Prashant Singh Rana & Dr. Vijay Kumar	Department of Computer Science and Engineering	2016	25.87	2 years	DST
Smart Demand-Response Framework for Load Optimization in an Electric Grid	Dr. Shalini Batra	Department of Computer Science and Engineering	2017	7.28	1 year	HSCST
SmartGlucobinder: Design and Synthesis of Small Glucose Binder Molecule using Computational Intelligence Approach	Dr. Vijay Kumar & Dr. Prashant Singh Rana	Department of Computer Science and Engineering	2017	27.19	3 years	DST
Smart Irrigation and Fertilization System for Precision Agriculture using Internet of Things and Cloud Infrastructure	Dr. Sanmeet Kaur & Dr. Parteek Bhatia	Department of Computer Science and Engineering	2017	20.96	3 years	CSIR

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An Adaptive Security System for Optimum Inter-domain Virtual Machines (VM) Migration	Dr. Maninder Singh (PI)	Department of Computer Science and Engineering	2017	22.00	1 year	DST
Design and Development of High Isolated MIMO Antennas for Mobile Handset	Dr.Hari Shankar Singh	Electronics and Communication Engineering Department	2017	4.70	2 Years	TIET,Patiala
Development of an Efficient Blind Source Separation Scheme for Natural Images in Soft Computing Network	Dr.Amit Mishra	Electronics and Communication Engineering Department	2017	4.90	2 Years	TIET,Patiala
Design of Nature Inspired Algorithm for Antenna Array Optimization	Dr.Urvinder Singh	Electronics and Communication Engineering Department	2017	4.40	2 Years	TIET,Patiala
Analysis of Electroencephalogram Signals for Implementation of P300 Based Brain Computer Interface	Dr.Rahul Upadhyay	Electronics and Communication Engineering Department	2017	5.00	2 Years	TIET,Patiala
Digital Image Copy-Move Forgery Detection-A Passive Approach	Dr. Neeru Jindal	Electronics and Communication Engineering Department	2015	4.00	2 Years	TIET,Patiala
SDR Implementation of Window based OFDM System for various Wireless Applications	Dr.Hemdutt Joshi	Electronics and Communication Engineering Department	2014	5.00	2 Years	TIET,Patiala

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with Improved Performance						
Fabrication of Integrated Micro-heater and IDT's for Soil-gel deposited Zinc Oxide (ZnO) based gas Sensor application	Dr.Anil Arora	Electronics and Communication Engineering Department	2014	5.00	2 Years	TIET,Patiala
Development and Realization of Accurate Temperature-Dependent Equivalent Circuit models for Multi Layer Graphene Nano Ribbon (MLG NR) Based VLSI Interconnects at Deep Submicron Technology Nodes	Dr.Mayank Kumar/Dr.Rajesh Khanna	Electronics and Communication Engineering Department	2017	29.46	3 Years	Council of Scientific and Industrial Research(CSIR)
Study of Antenna Parameters	Dr. Rajesh Khanna/Dr.V P Singh	Electronics and Communication Engineering Department/Computer Science and Engineering Department	2017	32.90	2years	DRDO

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Low-Complexity Power-Efficient Reconfigurable Implementation of Fractional Order Filters for Weak ECG Nonstationary Biomedical Signal Processing Applications	(Dr.Sanjay Kumar/Dr. Alpana Agarwal) / Dr. Ravinder Agarwal.	Electronics and Communication Engineering Department/Electrical and Instrumentation Engineering Department	2016	53.95	3 years	DST-SERB
Special Manpower Development Programme for Chips to System Design	Dr.Alpana Agarwal/Ms.Manu Bansal	Electronics and Communication Engineering Department	2016	166.00	5 years	MoCIT, DIT
Design and development of the plasma column for the study plasma antenna and switches	Dr. RanaPratapYadav	Electronics and Communication Engineering Department	2015	15.00	3 years	TU+IPR
Design and development of the Reconfigurable Plasma Antenna	Dr. RanaPratapYadav	Electronics and Communication Engineering Department	2015	28.00	3 years	DST
Design and Development of load resilient mock-up ICRH system of Tokamak with variable load	Dr. RanaPratapYadav	Electronics and Communication Engineering Department	2015	35.00	3 years	Board of research in nuclear sciences (BRNS)
Development of Photonic Crystal Biosensor for Detection of Foodborne Pathogens	Dr. R.S. Kaler	Electronics and Communication Engineering Department	2014	31.00	3 years	DBT

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Performance analysis of Dense wavelength division multiplexed systems.	Dr. R.S. Kaler	Electronics and Communication Engineering Department	2011	10.00	3 years	University grant commission, New Delhi
Special Manpower Development Programme for VLSI Design and Related Software (SMDP-II)	Dr. Alpana Agarwal	Electronics and Communication Engineering Department	2005	109.00	8 years	MoCIT, DIT
Application of Neuro-fuzzy Control in Interconnected Power System	Dr. Surya Prakash	Electrical and Instrumentation Engineering Department	2015	4.20	2 years	Thapar University
Design & validation of microgrid system for Kashoud at Himachal Pradesh	Dr. Prasenjit Basak	Electrical and Instrumentation Engineering Department	2014	4.15	2 years	Thapar University
Process Instrumentation of the State-of-the-art Integrated Cooling System for Large Generators in Power Plants	Dr. Gyan Ranjan Biswal	Electrical and Instrumentation Engineering Department	2014	4.85	2 years	Thapar University
Feasibility Analysis of Photovoltaic system in Patiala Distribution Network in Smart Grid Environment	Dr. Mukesh Singh	Electrical and Instrumentation Engineering Department	2015	5.00	2 years	Thapar University

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Development of diabetes and related disease identification system using iris and retinal images	Dr. Ravinder Agarwal and Dr. Atul Bansal	Electrical and Instrumentation Engineering Department	2017	5.00	2 years	GLA University
Modeling and control of different type of inverted pendulums in the presence of uncertainties	Dr. Vikram	Electrical and Instrumentation Engineering Department	2017	3.00	2 years	Thapar University
Development and testing of advanced control algorithms	Dr. Swati Sondhi	Electrical and Instrumentation Engineering Department	2017	5.00	2 years	Thapar University
Impact analysis of renewable energy sources on power system and energy market operations	Dr. S.K. Agarwal	Electrical and Instrumentation Engineering Department	2017	4.00	2 years	Thapar University
Experimental Studies on performance of Z-Source converters	Dr. Santosh Sonar	Electrical and Instrumentation Engineering Department	2015	4.70	2 years	Thapar University
Solution for rotation and translation in image based biometric system for cloud applications	Dr. Sunil Singla and Dr. Gagandeep Kaur	Electrical and Instrumentation Engineering Department	2016	5.00	2 years	Ingenious Corp. Sol. Pvt. Ltd.
Design and Development of AC-AC converter	Dr. Santosh Sonar	Electrical and Instrumentation Engineering Department	2017	12.00	2 years	Alasa Electronics ,New Delhi

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A Smart wearable device for cognitive assessment	Dr. Parag Nijhawanand Dr. Amandeep Singh	Electrical and Instrumentation Engineering Department	2017	5.50	2 years	Priority Solutions, Mohali.
Particulate matter dose relationship with lung function efficiency of children during agriculture crop residue burning episodes	Dr. Susheel Mittal and Dr. Ravinder Agarwal	Electrical and Instrumentation Engineering Department	2013	41.10	4 years	ICMR
Development of Fatigue Detection System	Dr. MD Singh and Dr. Mandeep Singh	Electrical and Instrumentation Engineering Department	2015	9.99	2 years 3 months	DIPAS (DRDO)
Development of Wireless embedded system for Health monitoring of ambulatory subjects	Dr. Mandeep Singh and Dr. MD Singh	Electrical and Instrumentation Engineering Department	2015	9.93	2 years 6 months	DIPAS (DRDO)
Electric vehicle charging station as a voltage and frequency regulator, within the real capability of EVs available , in presence of intermittent renewable energy sources	Dr. Sukumar Mishra and Dr. Mukesh Singh, Dr. Neeraj Kumar	Electrical and Instrumentation Engineering Department	2016	44.00	3 years	DST

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Development of full-field polarization -sensitive optical coherence tomography for soft biological tissue	Dr Vishal Srivastava and Dr. Ravinder Agarwal	Electrical and Instrumentation Engineering Department	2017	35.92	3 years	DST-SERB
Brain Fingerprinting: Detection of physiological based concealed information in the brain of suspect using machine learning techniques	Dr. Ravinder Agarwal and Dr. Saurabh Bhardwaj	Electrical and Instrumentation Engineering Department	2016	9.89	3 years	DRDO-INMAS
Low - Complexity power-efficient reconfigurable implementation of fractional order filters for weak ECG non-stationary biomedical signal processing applications	Dr. Ravinder Agarwal and Dr. Sanjay Kumar, Dr. Alpana Agarwal,	Electrical and Instrumentation Engineering Department	2016	53.96	3 years	DST
Energy Management of the Smart Home using Cloud Infrastructure - A Utility Perspective	Dr. Mukesh Singh and Dr. Neeraj Kumar	Electrical and Instrumentation Engineering Department	2016	25.00	3 years	CSIR
Smart demand response framework for load optimization in an electrical grid	Dr. S.K. Agarwal and Dr. Shalini Batra	Electrical and Instrumentation Engineering Department	2017	7.28	2 years	Haryana State Council (DST)

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Study and Development of SEMG based exoskeleton knee	Dr. Ravinder Agarwal and Dr. Hardeep Singh	Electrical and Instrumentation Engineering Department	2014	37.24	3 years	DST
Demonstration of grid Supportive EV Charger and Charging Infrastructure at LT Level(D-EVCI)	Dr. Mukesh Singh (PI)	Electrical and Instrumentation Engineering Department	2017	30.80	3 years	DST
Development of Vehicle to Grid enabled Charging station networks & Technologies	Dr. Mukesh Singh (PI)	Electrical and Instrumentation Engineering Department	2017	200.00	2 years	DHI-TPEM
Qualitative and Quantitative Analysis of The Sludge Accumulated in the Bed of Buddha Nallah at Various Locations	Dr. Pramod Kumar Bajpai/Dr. Haripada Bhunia	Chemical Engineering	2013	4.50	3 years	Punjab Pollution Control Board, Patiala
Photocatalytic Degradation of Textile Dye Effluent Using Doped TiO ₂ Catalyst	Mr. Alok Garg	Chemical Engineering	2013	0.97	2 years	UGC-New Delhi
Application of Nanozeolites For The Removal of Novel Contaminants From Waste Water	Dr. Sangamitra Barman	Chemical Engineering	2013	8.11	3 years	UGC-New Delhi

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Tailoring of Nanostructure For Reversible Hydrogen Storage: Molecular Simulation As A Guiding Tool	Dr. S K Singh	Chemical Engineering	2013	6.00	2 Years	UGC-New Delhi
Application Software Development To Evaluate Thermal Performance Of Tube Type, Air To Air Heat Exchangers For CACA High Rated Electrical Motors	Dr. D. Gangacharyulu/ Dr. Rajiv Kumar	Chemical Engineering	2013	13.82	3 years	Crompton Greaves Global R & D Centre, Kanjur Marg, Mumbai
Transalkylation of Di-Isopropylbenzene(DIPB) With Benzene Over Modified Nano Zeolite Catalyst: A kinetic Study	Dr. Sangamitra Barman	Chemical Engineering	2013	23.60	3 Years	DST, New Delhi
Essential Oil Production and Characterization	Dr. Avinash Chandra	Chemical Engineering	2013	6.00	3 Years	UGC, New Delhi
Application of adsorption process for removal of emerging pollutants from drinking water	Dr. Pramod K. Bajpai/ Dr. Jafar Soltan	Chemical Engineering	2014	2.62	1 year	SRG (Indo-Canadian)
Synthesis and Characterization of High Capacity Adsorbents For CO ₂ capture	Dr. Haripada Bhunia/ Dr. Pramod Kumar Bajpai	Chemical Engineering	2014	25.34	3 Years	DST, New Delhi

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Studies on STF – Nanoclay Based Composites For Personal Armour Systems	Dr. Rajeev Mehta	Chemical Engineering	2014	32.00	3 Years	ARMREB, DRDO
Development of Nano-Eco Toxic Polyolefins With Controlled Environmental Degradation by Using High Energy Radiation and Pro-Oxidants	Dr. Haripada Bhunia/ Dr. Pramod Kumar Bajpai	Chemical Engineering	2014	27.89	3 Years	DAE-BRNS, Mumbai
Investigation of Hydrodynamics and RTD of Pulp Digester Using Radiotracer Technique	Dr. Avinash Chandra/Dr. Haripada Bhunia, Dr. Pramod Kumar Bajpai	Chemical Engineering	2014	26.97	3 Years	DAE-BRNS, Mumbai
Study of Hydrodynamics and RTD of Effluent Treatment Process(Biological) Using Radiotracer Technique	Dr. Vikas Kumar Sangal/ Dr. Haripada Bhunia	Chemical Engineering	2015	24.51	3 Years	DAE-BRNS, Mumbai
Measurement of Circulation time and Optimization of Mixing Process for Ethyl Acetate Reactor Using Radiotracer Technique	Dr. Raj Kumar Gupta & Dr. Haripada Bhunia	Chemical Engineering	2015	25.24	3 Years	DAE-BRNS, Mumbai

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Drying of Polymer – Polymer – Solvent Coatings: Experimental and Simulation Study	Dr. Raj Kumar Arya	Chemical Engineering	2017	41.21	3 Years	SERB-DST New Delhi
Polymer fiber addition to multi-scale glass fiber reinforced clay epoxy nanocomposites for improved impact strength	Dr. Rajeew Mehta/ Dr. Tarun Nanda	Chemical Engineering	2017	28.92	3 years	SERB-DST New Delhi
Poly lactide polypropylene blends: Preparation, Characterization, Degradability and Eco-toxicity studies	Dr. Haripada Bhunia/ Dr. S Ahuja	Chemical Engineering	2017	24.96	3 years	CSIR, India
Electroreduction of carbon dioxide to ethanol using nano structured copper-based electrocatalysts	Dr. Haripada Bhunia/ Dr. Neetu Singh	Chemical Engineering	2017	39.61	3 years	SERB-DST New Delhi
Alkali metal supported transition metal oxides as solid catalyst for the transesterification of jatropha and karanja oils	Dr. Amjad Ali Associate Professor & Head, SCBC	School of Chemistry and Biochemistry	2012	19.00	2 years	DRDO
ESIPT based Chromophores: Applications for Sensing and White light emitting devices	Dr. Vijay Luxami Associate Professor	School of Chemistry and Biochemistry	2012	35.00	2 years	DST - INSPIRE

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Particulate matter dose relationship with lung function efficiency of children during agriculturalcrop residue burning episodes	Dr. Susheel Mittal & Dr. Ravinder Aggarwal, TUA. Chander Senior Professor	School of Chemistry and Biochemistry	2012	40.00	2 years	ICMR
Modelling Atmospheric Pollution and Networking (MAPAN) – Patiala (MAPAN – 08)	Dr. Susheel Mittal & Dr. Gurfan Beig Senior Professor , SCBC	School of Chemistry and Biochemistry	2013	22.30	3 years	IITM
Study of surface charge and Zeta potential of coinage metal nanoparticles for their optimum stability and catalytic activity	Dr. Bonamali Pal Professor	School of Chemistry and Biochemistry	2013	15.00	3 years	CSIR
Synthesis of Clay Supported TiO ₂ Nanoparticles for Photocatalytic Oxidation of Volatile Organic Compounds (VOCs).	Dr. Soumen Basu Associate Professor	School of Chemistry and Biochemistry	2014	24.98	3 years	SERB - DST

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Mixed metal oxides as heterogeneous catalysts for the triacetin synthesis"	Dr. Amjad Ali Associate Professor & Head, SCBC	School of Chemistry and Biochemistry	2015	42.11	3 years	DST
Synthesis of fused heteroaromatic derivatives through molecular hybridization technique and their in vitro evaluation as anticancer agents	Dr. Kamaldeep Paul Associate Professor	School of Chemistry and Biochemistry	2015	36.40	3 years	CSIR
Size and Shape Dependent Photocatalytic activity of TiO ₂ nanostructures for selective reduction of nitroaromatics	Dr. Bonamali Pal Dr. Satnam Singh Professor Professor	School of Chemistry and Biochemistry	2015	15.00	3 years	CSIR
Removal of Metal Ions from Waste Waters Using Hierarchically Porous Metal Oxide Monoliths with Tunable Mesopore Size.	Dr. Soumen Basu Associate Professor	School of Chemistry and Biochemistry	2015	24.62	3 years	BRNS
Innovative research in pedagogy for Mini-MOOCs blended with instruction strategies to enhance quality of Higher Education	Dr. Susheel Mittal Dr. Deepak Garg Dr. Shivani Goyal Senior Professor	School of Chemistry and Biochemistry	2016	110.00	3 years	RAE (UK) & TIET

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Bimetallic Core-Shell Nanostructures of Transition Metals for Homogeneous Hydrogenation Catalysis and Heterogeneous Co-Catalysis	Dr. Bonamali Pal Professor	School of Chemistry and Biochemistry	2016	42.39	3 years	DST
Ruthenium Catalyzed C-H Band Activation Strategy For C-C And C-X Bond Formation For Biological Active Compounds	Dr. Kamaldeep Paul Associate Professor	School of Chemistry and Biochemistry	2017	25.00	3 years	DST - SERB
Short and efficient synthesis of natural fragrance and pheromones employing organocatalyzed aldol reaction	Dr. Ranjana Prakash Professor	School of Chemistry and Biochemistry	2017	24.00	3 years	CSIR
Encapsulation of Mesoporous Carbohydrate Nanoparticles on Intestinal Microflora Cell Surface for Enhancement of Drug Effectiveness.	Dr. Diptiman Choudhury Assistant Professor	School of Chemistry and Biochemistry	2017	43.12	3 years	DST - SERB
Magnetic core supported heterogeneous catalysts for the glycerol carbonate synthesis	Dr. Amjad Ali Associate Professor & Head, SCBC	School of Chemistry and Biochemistry	2017	15.00	3 years	CSIR

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Dynamic Combinatorial Chemistry: Accessing complex topologies and new receptors	Dr. Vijay Luxami Associate Professor	School of Chemistry and Biochemistry	2017	55.00	3 years	SERB
Design and synthesis of tri/tetraphenylethylene molecules as fluorescent receptors and anticancer agents	Dr. Vijay Luxami Associate Professor	School of Chemistry and Biochemistry	2017	25.00	3 years	CSIR
A fluorometric bimodal nanosensor based on carbon dot-MnO ₂ nanocomposites for detection and intracellular imaging of glutathione	Dr. Soumen Basu Associate Professor	School of Chemistry and Biochemistry	2017	10.00	3 years	CSIR
Development of myoglobin-based artificial metalloenzyme containing rhodium in place of iron for accessing non-natural activities	Dr. Vikas Tyagi Assistant Professor (INSPIRE Faculty)	School of Chemistry and Biochemistry	2017	35.00	3 years	DST
Investigations of Enzyme/Synthetic Compound Catalyzed C-H Activation, Drug Metabolism and Impact of Quantum Mechanical Tunneling	Dr. Debashish Mandal Assistant Professor (INSPIRE Faculty)	School of Chemistry and Biochemistry	2017	35.00	3 years	DST

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Feasibility study on the use of steel melting furnace slag/APCD dust as filler in the manufacture of fly ash bricks/Blocks	Dr. Amit Dhir	School of Energy and Environmnet	2014	1.20	1 year	Industry (Non-Government)
Evaluation of LSCF-GDC cathode layer fabricated by aqueous spray coating for intermediate temperature solid oxide fuel cells	Dr. Venkatasubramanian	School of Energy and Environmnet	2016	5.00	2 years	TIET
Localization of selenium and other trace elements in edible crops cultivated in seleniferous soils	Dr. N.Tejo Prakash	School of Energy and Environmnet	2017	22.66	2 years	DST-RFBR
Molecular aspects of selenium tolerance by aerobic baireria and development of bioreactor for selenate/selenit bioremediatio	Dr. N.Tejo Prakash	School of Energy and Environmnet	2011	4.02	2 years	India-Japan S&T Cooperatio
Neuroprotective properties of selenoergothioneine sourced from selenium-rich mushrooms against oxidative stress and nitrosative damage in neuronal cells	Dr. N.Tejo Prakash	School of Energy and Environmnet	2012	23.70	2 years	DBT

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Biofortification of selenium in Edible Mushrooms from se-rich crop Residues"	Dr. N.Tejo Prakash	School of Energy and Environmnet	2012	24.30	2 years	DBT
Reforming of Biogas for Hydrogen Production and its Utilization in CI engine under dual fuel mode	Dr. Amit Dhir	School of Energy and Environmnet	2016	39.00	2 years	MNRE
Applications of ionizing radiation in AOP based degradatoin of persistent pollutants from aqueous streams	Dr. Amit Dhir	School of Energy and Environmnet	2015	24.83	3 years	DAE-BRNS
Studies on combustion, performance and emissions characteristics of diesel engine fuelled with biodiesel and biogas	Dr. Sunil Kumar Mahla	School of Energy and Environmnet	2014	19.20	3 years	DST-SERB
National Env. Awareness campaign,2012-13	K.S.Babu	School of Energy and Environmnet	2013	0.15	3 Months	PSCST Chandigarh
A Strategic framework for consumer preferences towards emerging retail formats	Dr. Ravi Kiran	School of Humanities and Social Sciences	2012	5.00	3 years	ICSSR
An experimental investigation of the Psychological determinants of financial decision making: A	Dr. Santha Kumari	School of Humanities and Social Sciences	2013	7.00	3 Years	ICSSR

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prospect theory approach.						
A strategic model for enhancing entrepreneurial skill development: An empirical study of technical business incubators in India	Dr. Ravi Kiran	School of Humanities and Social Sciences	2017	21.60	3 years	DST
On L^1 -Convergence of trigonometric series with special coefficients	Dr. Jatinderdeep kaur (PI) & Dr. S.S. Bhatia (Co-PI)	School of Mathematics	2013	9.72	3 years	UGC
Automorphisms of Finite p-Groups	Dr. Deepak Kumar Gumber	School of Mathematics	2013	60.00	3 years	UGC
Non-Linear and Class-Preserving Automorphisms of Finite p-Groups	Dr. Deepak Kumar Gumber	School of Mathematics	2014	10.12	3 years	NBHM

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Higher order Discontinuouse Gelerkin method for unsteady incompressible Navier Stokes Equation: Analysis and Simulation	Dr. Sapna Sharma	School of Mathematics	2014	13.32	3 years	DST
On q-series Split n-colour partitions ans F-partitions	Dr. Meenakshi Rana	School of Mathematics	2016	15.00	3 years	CSIR
On Combinatorics of q-series, Rogers-Ramanujan type identities and split n-color partitions	Dr. Meenakshi Rana	School of Mathematics	2016	14.40	3 years	NBHM
Divisibility Conjecture and Existence of Non-Linear Automorphisms of order p for Non-Abelian Finite p-Groups	Dr. Deepak Kumar Gumber	School of Mathematics	2016	20.00	3 years	SERB, DST
Extinction risk analysis: An approach to preserve endangered species	Dr. Parimita Roy	School of Mathematics	2017	13.05	3 years	SERB, DST
Mathematical modeling of equilibrium structures and oscillations of rotating stars inbinary systems using modified Roche equipotential	Dr. A.K. Lal(PI) and Dr. Ankush Pathania (Co-Investigator)	School of Mathematics	2017	16.96	3 years	CSIR

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Study of surface and LAMB Type Wave Propagation in the context of Size Dependent Piezoelectricity	Dr. Satish Kumar	School of Mathematics	2017	16.00	3 years	SERB, DST
Modelling and simulation of three-dimensional magnetohydrodynamic Nanofluid flows over a stretching surface	Dr. Raj Nandkeolyar	School of Mathematics	2017	16.23	3 years	SERB, DST
Numerical analysis of tumor growth models using Discontinuous Galakin Techniques	Dr. Parmjeet Singh	School of Mathematics	2017	13.19	3 years	DAE, NBHM
On class-preserving automorphisms of finite groups	Dr. Hemant Kalra	School of Mathematics	2017	6.60	3 years	SERB, DST
Compression and representation of biological shapes and signals using diffusion wavelet	Dr. Kavita	School of Mathematics	2017	6.60	3 years	SERB, DST
Understanding traffic dynamics via lattice hydrodynamics approach: Modeling, analysis & simulation	Dr. Sapna Sharma	School of Mathematics	2017	6.60	3 years	SERB, DST

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Study of wave propagation phenomena in the context of size dependent elastic theories	Dr. Satish Kumar	School of Mathematics	2017	7.97	3 years	CSIR
Finite volume analysis of PDE Models arising in Neuronal Variability	Dr. Parmjeet Singh	School of Mathematics	2014	3.26	2 years	SEED Grant
Construction of some new iterative methods for solving nonlinear equations	Dr. Sanjeev Kumar	School of Mathematics	2014	5.00	2 years	SEED Grant
Integrated behavior and performance analysis of some industrial systems	Dr. Harish Garg	School of Mathematics	2016	4.20	2 years	SEED Grant
Nonsmooth minimax fractional programming problems	Dr. Vikash Sharma	School of Mathematics	2015	3.00	2 years	SEED Grant
Some fixed point problems in Abstract Spaces with Applications	Dr. Sumit Chandok	School of Mathematics	2017	2.30	2 years	SEED Grant
Finite p-groups with central automorphism group of minimal order	Dr. Hemant Kalra	School of Mathematics	2017	2.20	2 years	SEED Grant
Modeling and simulation of traffic flow through lattice hydro-dynamic approach	Dr. Sapna Sharma	School of Mathematics	2017	2.30	2 years	SEED Grant

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Application of wavelets in uncertainty quantification	Dr. Kavita	School of Mathematics	2017	2.40	2 years	SEED Grant
Numerical study of MHD nanofluid flow in the presence of induced magnetic field	Dr. Raj Nandkeolyar	School of Mathematics	2017	3.60	2 years	SEED Grant
Synthesis and Characterization of Multiferroic AFe ₂ O ₄ -BiFeO ₃ (A= Co, Ni, Zn) Nanocomposite Films	Dr. Puneet Sharma	School of Physics and Material Sciences	2014	10.00	2 years	UGC
Development of barium hexaferrite (BaFe ₁₂ O ₁₉) thick films for micro/millimeter wave device application.	Dr. Puneet Sharma	School of Physics and Material Sciences	2013	16.00	3 years	CSIR
Development of M type hexaferrite films for microwave device application	Dr. Puneet Sharma	School of Physics and Material Sciences	2014	47.46	3 years	DST
Development of exchange coupled hard/soft ferrite nanocomposites for tunable microwave application.	Dr. Puneet Sharma	School of Physics and Material Sciences	2017	21.56	3 years	CSIR
Synthesis and characterization of novel 2D metal carbides (MXenes) for energy	Dr. O.P. Pandey	School of Physics and Material Sciences	2017	40.66	3 years	DST

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conversion and storage applications						
Synthesis and Characterization of Na ₂ S-P ₂ S ₅ glass/glass-ceramic based solid electrolytes for Na-ion batteries	Dr. O.P. Pandey	School of Physics and Material Sciences	2015	28.00	3 years	DST
Study of alkali metal oxide containing calcium silicate glasses as substrate for solar cell application	Dr. O.P. Pandey	School of Physics and Material Sciences	2017	23.70	3 years	DST
Synthesis and characterization of molybdenum carbide nanoparticles for electrochemical applications	Dr. O.P. Pandey	School of Physics and Material Sciences	2017	2.13	3 years	UGC, DAE, CRS
Development of Transition Metal Oxides decorated Graphene-Polypyrrole nanocomposites as RADAR Absorbing Materials	Dr. O.P. Pandey	School of Physics and Material Sciences	2016	9.91	1.5 years	DRDO

List of Sponsored projects from Govt./ Non-Govt. funding agencies (Last five years)

Study of Alkaline earth metals substitution in Bi based mixed ion conductor for solid oxide fuel cell application	Dr. K. Singh	School of Physics and Material Sciences	2012	14.42	3 years	DRDO
Study of La doped mixed conductor for solid electrolyte	Dr. K. Singh	School of Physics and Material Sciences	2012	34.50	3 years	DST
Corrosion Resistant behaviour of Glass -steel interface	Dr. O.P. Pandey	School of Physics and Material Sciences	2011	9.03	3 years	UGC
Synthesis of nano tungsten carbide powder from wolframite ore	Dr. O.P. Pandey	School of Physics and Material Sciences	2010	33.00	3 years	DST
Synthesis of WC nano powder through thermo-chemical reduction and its application for the development of WC-Composite	Dr. O.P. Pandey	School of Physics and Material Sciences	2010	27.00	3 years	DST
Synthesis and Characterization of Vanadium Carbide Nanoparticles	Dr. O.P. Pandey	School of Physics and Material Sciences	2012	7.34	5 years	UGC, DAE, CRS
Determination of Neel Temperature for ferritin	Dr. S.D.Tiwari	School of Physics and Material Sciences	2011	3.67	3 years	UGC

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Effect of magnetic anisotropy and particle size distribution on the magnetization of antiferromagnetic NiO nanoparticles	Dr. S.D.Tiwari	School of Physics and Material Sciences	2014	18.75	3 years	CSIR
Development of PVDF-(Ba, Sr) TiO ₃ nanocomposites based capacitor grade film for high energy density applications	Dr. Dwijendra Pratap Singh	School of Physics and Material Sciences	2017	25.21	3 years	TBRL, DRDO
Nanoengineering of magnetic carriers for drug delivery of anticancer therapeutics	Dr. B.N.Chudasama	School of Physics and Material Sciences	2012	13.75	3 years	DST
Magnetic Fluid based coolant to enhance thermal and dielectric properties of transformer oil.	Dr. B.N.Chudasama	School of Physics and Material Sciences	2012	20.25	3 years	CSIR
Studies on antimicrobial properties of metal and metal oxide nanostructures.	Dr. B.N.Chudasama	School of Physics and Material Sciences	2013	27.10	3 years	UGC
Study of nuclear reaction dynamics involved with heavy ion collisions	Dr. Manoj Sharma	School of Physics and Material Sciences	2012	12.50	3 years	DST

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Study of different versios of nuclear proximity potentials in the formation and decay path of nuclear systems	Dr. Manoj Sharma	School of Physics and Material Sciences	2012	12.70	3 years	UGC
Exploring the incomplete processes and features which effect the same	Dr. Manoj Sharma	School of Physics and Material Sciences	2015	20.00	3 years	CSIR
Decay analysis of light particle induced reactions and related structural effects	Dr. Manoj Sharma	School of Physics and Material Sciences	2016	17.80	3 years	DST
Study of heavy-Light D and B mesons using HQET	Dr. Alka	School of Physics and Material Sciences	2012	9.90	3 years	UGC
Low energy properties of baryon $J_p=1/2+$ octets and $J_p=3/2+$ Decuplets using phenomenological model	Dr. Alka	School of Physics and Material Sciences	2015	17.39	3 years	DST
Synthesis of $\text{BiFeO}_3 - (\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ thin films for device applications	Dr. P.Uniyal	School of Physics and Material Sciences	2013	13.92	3 years	UGC
Study of Size-dependent multiferroics properties of doped BiFeO_3 nanostructures.	Dr. N.K.Verma	School of Physics and Material Sciences	2013	24.14	3 years	BRNS

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Lead free relaxor ferroelectric ceramics for Electrocaloric applications	Dr. P.Uniyal	School of Physics and Material Sciences	2017	39.40	3 years	CSIR
Investigation of growth dynamics and kinetic surface roughening of some solution processed technologically important binary sulfides	Dr.B.C.M	School of Physics and Material Sciences	2013	6.00	2 years	UGC
Photovoltaic and Grain Boundary Characteristics of Single Target Sputtered $\text{Cu}_2\text{ZnSn}(\text{SSe})_4$ Thin Film Solar Cell	Dr.B.C.M	School of Physics and Material Sciences	2015	55.26	3 years	SERB-DST
Substrate mediated phase transition in two-dimensional liquid crystal systems	Dr.Debabrata Deb	School of Physics and Material Sciences	2016	26.45	3 years	SERB-DST
Moving And Colliding Cavity Solitons and Cavity Soliton Molecules	Dr.S.Jana	School of Physics and Material Sciences	2012	6.00	2 years	UGC-BSR
Development of Magnetic Therapeutic Agents for Thermo-Chemotherapy of Cancer	Dr. B.N.Chudasama	School of Physics and Material Sciences	2017	48.78	3 years	DST