

List of Sanctioned research Project in Financial Year 2022-23					
APPLIED MECHANICS DEPARTMENT					
Sl.No.	Title of the Projects	Name of the Funding Agency	Name of Principal Investigator	Sanction Date	Sanctioned Amount in Rs.
1	Design and development of a non-invasive, smart, and portable device for real-time assessment of bone fracture	SERB, New Delhi	Dr. Abhishek Kumar Tiwari	02.03.2023	4,785,264
2	Modeling of Shock Induced Sympathetic Detonation in Explosive Mixtures	DRDO, CARS	Dr. A. K. Upadhyay	20.09.2022	993,560
3	Design and Development of a proof-of-Concept Model of a Self-Deployable Ultra-light Weight Adaptive	SERB, New Delhi	Dr. Satish Kumar	14.02.2023	2,706,261
BIOTECHNOLOGY DEPARTMENT					
1	Development of Aerobic Granular Sludge based biological treatment system for treating	BRNS, DAE, Mumbai	Dr. Joyabrata Mal	03.06.2022	2,808,100
2	Influence of microbial diversity on heavy metal removal and bio-electricity generation in a constructed wetlands integrated microbial fuel cell system: A sustainable	SERB, New Delhi	Dr. Radharani	25.08.2022	5,449,400
3	Development of a multiplex QPCR assay based on miRNAs expression in liquid biopsy for early diagnosis of epithelial ovarian carcinoma	UPCST Lucknow	Dr. Manisha Sachan	30.08.2022	600,000
4	Study on therapeutic and preventive efficacies of linoleic acid in hamster model of visceral leishmaniasis	ICMR, New Delhi	Dr. Ambak Kumar Rai	22.11.2022	1,197,379
5	Computational screening to identify plant derived DPP IV inhibitors as therapeutics of diabetes type 2	SERB, New Delhi	Dr. Ashutosh Mani,	19.12.2022	5,373,764
6	International Conference on "1st International Conference on Advances in Biopolymers and Composites: Health, Environment and Energy (ABC-HEE, 2022)	SERB, New Delhi	Dr. Sangeeta Negi,	31.10.2022	200,000
7	Development of a multiplex QPCR assay based on miRNAs expression in liquid biopsy for early diagnosis of epithelial ovarian carcinoma	UPCST Lucknow	Dr. Manisha Sachan,	31.01.2023	600,000
8	Investigating Aetiology of Early Age Onset Colorectal Cancers (EOCRC) using MultiOmics technology: A case Control Study	ICMR, New Delhi	Dr. Sameer Srivastava	13.03.2023	2,924,129
9	Effect of polyherbal formulations on energy and stamina	Emami Limited	Dr. Vishnu Agarwal	06.02.2023	456,000
CHEMICAL ENGINEERING DEPARTMENT					
1	Novel Processes of Synthesis of Physically Modified Starches for Application in Food Products and Agrowaste Composite Packaging Films	UPCST Lucknow	Dr. Harinder Singh	29.08.2022	1,044,000
CIVIL ENGINEERING DEPARTMENT					
1	Structural Health Monitoring of Buildings Using Electro-Mechanical Impedance Techniques (P.I.D.-1813)	UPCST Lucknow	Dr. Rama Shanker	29.08.2022	912,000
COMPUTER SCIENCE & ENGINEERING DEPARTMENT					
1	Internet of Things (IoT) and Machine Learning (ML) based Smart UAV-Assisted Emergency System for Disaster Management (PID -1199)	UPCST Lucknow	Dr. J. Sathish Kumar	30.08.2022	580,000
2	Artificial Intelligence Based Identification and Segregation of Plastic Waste from Garbage for Enhanced Recycling (I.D.-1761)	UPCST Lucknow	Dr. Divya Kumar	30.08.2022	1,044,000
3	Investigating healthcare data management using blockchain technology and Internet of Things	SERB, New Delhi	Dr. Sathish Kumar	18.01.2023	2,349,855
ELECTRICAL ENGINEERING DEPARTMENT					
1	Fund for Science and Engineering Research	DST New Delhi	Head, EED	02.03.2022	14,100,000
2	Development of Electric Vehicle Charging Infrastructure for Building Micro-Grids Containing Renewables for Smart City Applications (P.I.D.-1395)	UPCST Lucknow	Dr. Prashant Kumar Tiwari	29.08.2022	1,092,000
3	Solar PV Supported Reconfigurable EV charger with Reduced Switching Devices	Meity, New Delhi Under NaMPET-III	Dr. Rajesh Gupta	10.06.2022	3,070,976
ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT					
1	Design of Wideband Wearable Antennas for Medical Internet of Things (MIoT) and 5G Used in Remote Healthcare Applications (PID-1387)	UPCST Lucknow	Dr. Vijay Shankar Tripathi	29.08.2022	1,192,000
2	Development and hardware implementation of deep learning based pre-processing techniques for thermal image application	DRDO, Kanpur	Dr. Basant Kumar	31.03.2022	1,500,000

3	International Conference on "IEEE-International Conference on Microwave, Antenna and Communication (MAC 2023)"	SERB, New Delhi	Prof. Vijay Shanker Tripathis	10.02.2023	150,000
<b>GIS CELL</b>					
1	Regional Centre for Geodesy (for four Institute)	DST/NRDMS	Dr. Ramji Dwivedi	31.03.2022	14,090,720
2	Monitoring & Investigation on lightning phenomena and its associated processes using lightning detection systems (LDS) at Collaborating Institutes	NRSC	Dr. Ramji Dwivedi		500,000
<b>MATHEMATICS DEPARTMENT</b>					
1	Investigation of two-fluid flows (micropolar-Newtonian) through a complex porous medium and their applications in engineering sciences (Project ID : 1103)	UPCST Lucknow	Dr. Pramod Kumar Yadav	01.09.2022	1,004,000
2	Inspire Fellowship Scheme	DST, New Delhi	Ms. Harshita	27.01.2023	458,960
<b>MECHANICAL ENGINEERING DEPARTMENT</b>					
1	Thermal Performance evaluation of Earth-Air tunnel assisted Greenhouse in tropical conditions like Uttar Pradesh (P.I.D-1929)	UPCST Lucknow	Dr. Ashwini Kumar Yadav	29.08.2022	800,000
2	Polymeric Nanocomposite (PNC) for bonding dissimilar material surfaces	DRDO, Kanpur	Dr. Sunil Kumar Gupta	02.11.2022	990,000