

**Indian Institute of Information Technology Allahabad**  
**List of Sponsored running Project 2023-24**

Sr. No.	Name of Project	Principal Investigator/ Co-PI	Funding Agency	Project Cost	Amount Released	Expenditure	Period of Project	Status of UC	Objective of the Project	Remarks	Project No. IITA/PI/Funding Agency/Year/SI.No.
1	Disaster management system for large scale deployment of sensor network using a fault tollerant mechanism	Dr. Shirshu Verma	DST	15,847,800	7,308,000	7,901,117	2011-15	Pending		Project Period Completed, Final Closer Report / UC required from PI	IITA/Shirshu V/DST/2011/01
2	Distributing Industrial Optimization tasks to Rural Worker- INDO UK BURD Project	Prof. Anupam	DST	6,088,130	4,255,024	4,501,978	2012-17	Pending		Project Period Completed, Final Closer Report/ UC required from PI	IITA/Anupam/DST/2012/01
<b>New Project 2015-16</b>											
3	IIIT-A Design Innovation Center	PI: Dr. Suneel Yadav Co-PI: Dr. Nitesh Purohit, Dr. Sunny Sharma, Dr. Vibhash Ghoshal, Dr. Rishi Ranjan Singh, Dr. Amit Kr. Dhar	MHRD	5,937,004	6,937,004	6,599,723	2015-19	Submitted		Running	IITA/Suneel Y/MHRD/2015/01
<b>New Project 2016-17</b>											
4	GLOBAL INITIATIVE ON ACADEMIC NETWORK	Dr. Satish Kumar Singh	MHRD	5,984,000	5,984,000	6,081,350	2015-18	Submitted		completed	IITA/SK Singh/MHRD/2016/01
5	Mission Planning using Sampling based techniques	Dr. Rahul kala	SERB	3,928,766	3,187,713	3,674,976	2016-19	Submitted		Closed, Balance Grant to be recived	IITA/Rahul K/SERB/2016/01
<b>New Project 2017-18</b>											
6	IIMPRINT India initiative	Dr. Bibhas Ghoshal	MHRD (IIT Kanpur)	1,290,000	2,023,200	1,830,255	2017-22	Submitted		Closed	IITA/Bibhash G/MHRD/2017/01
<b>New Project 2018-19</b>											
7	Near Horizon Structure of Black Holes	Dr. Srijit Bhattacharjee	SERB	1,977,248	1,741,949	1,677,649	2018-21	Submitted		Closed	IITA/Srijeet B/SERB/2018/01
8	Cyber Physical Security in Energy Infrastructure of Smart Cities (CPSEC) Indo-Norway Collaboration Project under ICT - CPSEC	Prof. O.P.Vyas	DST	3575500	1769835	2514494	2018-21	Submitted		Running	IITA/OP Vyas/DST/2018/01
9	Newgen Innovation & Entrepreneurship Development Centre	Dr. Ranjana Vyas	DST	9500000	16750000	8027392	2018-23	Submitted		Running	IITA/Ranjana V/DST/2018/02
10	Real Time Complex Processing and Analytics for Smart Buildings	Dr. Sonali Agarwal	DST	2,337,720	2,184,200	1,607,202	2018-21	Submitted		closed	IITA/Sonali A/DST/2018/03
11	Design and Development of Dimensionality Reduction Technigues for Cyber Physical Systems	Prof. Shekhar Verma	DST	3,128,400	2,559,200	2,639,316	2018-21	Submitted		Closed	IITA/Shekhar V/DST/2018/04
12	TRANSDIFFERENTIATION OF MESENCHYMAL STEM CELLS INTO FUNCTIONAL NEURONS ON BIODEGRADABLE NANOMATERIAL SCAFFOLDS	Dr. Sangeeta Singh	SERB	3816000	3550000	3719861	2018-21	Submitted		Running	IITA/Sangeeta S/SERB/2018/02
13	Scheduling of Precedence tasks with DVFS and Duplication on heterogeneous multiprocessors	Dr. Jagpreet Singh	SERB	1,798,090	1,554,760	1,344,431	2018-22	Submitted		Running	IITA/Jagpreet S/SERB/2018/03

New Project 2019-20											
14	Development of Secure IoT Communication using the Blockchain Technology (DST/ICPS/Cluster/CS Research/2018 (General)	Dr. Venkatesan	DST	3630000	2627927	1540950	2019-22	Submitted		Running	IIITA/S Venkatesan/DST/2019/01
15	Low Power-High Speed True Random Number Generator for Cryptographic and Security Applications Under Cyber Security (CS) Research of Interdisciplinary Cyber Physical Systems (ICPS) Programme	Dr. Manish Goswami	DST	6,776,000	4600000	1421058	2019-22	Submitted		Running	IIITA/Manish G/DST/2019/02
16	Modeling And Simulation Of Environmental And Occupational Epidemiology Data In Indian Context An Ontology Based Data Mining Approach	Dr. Sonali Agarwal	CSIR	2636000	1045000	407178	2019-23	Submitted		Running	IIITA/Sonali A/CSIR/2019/01
17	Popularizing the benefits of Information and Communication Technology (ICT) among the farmers and rural population in Prayagraj, UP	Dr. Vijay Kr. Chaurasiya	DST	1,190,750	950,000	1,033,660	2019-2021	Submitted		Project period completed, Balance Grant to be received	IIITA/Vijay K/DST/2019/03
18	GenomeIndia: Cataloguing the Genetic Variation in Indians	Dr. Pritish Varadwaj	DBT	14000000	9300000	10336711	2019-2022	Submitted		Running	IIITA/Pritish V/DBT/2019/01
New Project 2020-21											
19	A web browser based Intelligent kernel tool for automatic detection and blocking of obscene image and video contents in real time by IIIT Allahabad	Prof. P.Nagabhushan/ Dr. Satish Kr. Singh/ Dr. Mohammed Javed	BPR&D	38,30,400	2681240	2048868	2020-22	Submitted		Running	IIITA/P Nagabhushan/BPR&D/2020/01
20	Development of Application Oriented AI Systems	Prof. U.S. Tiwary/ Dr. Bibhash Ghosal/Dr. Jagpreet Singh	MeitY	3982000	1994000	1526509	2020-23	Submitted		Running	IIITA/UST/MeitY/2020/01
21	Improving Access to Science and Technology Higher Education in Resource-Poor Institutions through an Open Platform for Technology Enabled Active Learning Environment	Dr. Sonali Agarwal	University of Peradeniya, Galaha, Sri Lanka	EURO 72,724	3078362		2020-23			Running	IIITA/Sonali A/Sri Lanka/2020/01
22	Development of kit for simultaneous isolation of viral RNA by magnetic nanoprobe and rapid detection of novel coronavirus by highly luminescent gold nanoclusters	Dr. Amaresh Kumar Sahoo	DBT	1,401,520	1,146,057	1,146,057	2020-21	Submitted		closed	IIITA/Amaresh K Sahoo/DBT/2020/01
23	Development of fuzzy logic based automated micro-irrigation system powered by phylotaxy pattern solar tree for agricultural and horticultural crops	Dr. Ashutosh Kumar Singh	U.P. Council of Agricultural Research, Gomti Nagar, Lucknow	2073500	477,750	263,519	2020-21	Submitted		Running	IIITA/Ashutosh K Singh/UPCAR/2020/01
24	Ab-initio linear and non-linear ultrafast spectroscopy in twdimensional nitrogen based binary bucked group V semiconductors	Dr. Sitangshu Bhattacharya	DST	3525903	836226	570813	2020-23	Submitted		Running	IIITA/Sitangshu B/DST/2020/01
25	Detection and quantification of multiple blood parameters with photoacoustics: Fundamental research and portable device development for onsite sample Analysis	Dr. Ratan Kumar Saha	ICMR	2105898	1310320	812359	2020-23	Submitted		Running	IIITA/Ratan K Saha/ICMR/2020/01
26	Social Awareness for COVID-19 through AI based Mobile App (TPN/52915)	Dr. Vrijendra Singh	DST	1576800	1260000		2020-22			Running	IIITA/Vrijendra S/DST/2020/02
New Project 2021-22											
27	Inspire Program- Inspire Fellowship	Dr. Pramod Kumar (Ms. Vidushi Gautam)	DST	451520	451520	432837	2020-25	Submitted		Running	IIITA/Pramod Kr/DST/2021/01
28	IOT Based Testbed	Dr. S. Venkatesan, Dr. Soumyadev Maity, Dr. Vijay Kr. Chaurasiya, Prof. Neetesh Purohit, Dr. Suneel Yadav, Dr. Manish Kumar	IIT Kanpur (DST)	2,74,25,000	24,50,000	1674234	2021-26	Submitted		Running	IIITA/S Venkatesan/IITK/2021/01
29	Social media, Outreach and Awareness Activities on Novel Method of Targeted Drug Delivery: Reducing Doses and Enhancing of Therapeutic Drug	Dr. Sangeeta Singh	DST	2185920	1171360	608888	2021-23	Submitted		Running	IIITA/Sangeeta S/DST/2021/02
30	Design of efficient descriptors for biomedical image retrieval in computer assisted diagnosis	Dr. Satish Kumar Singh	DST	1082000	541000	146910	2021-23	Submitted		Running	IIITA/Satish K/DST/2021/03
31	Intelligent Grasp Manipulation Technology Development in a Cobotics Framework Using Complex Manipulation (Human Robot Interaction)	Prof. G.C.Nandi	IIT Delhi	10000000	6589946	4597635	2021-24	Submitted		Running	IIITA/GCN/IITD/2021/01
32	Study of weakly coupled Partially Observable Markov Decision Processes, and Reinforcement Learning Algorithms	Dr. Rahul Harishchandra Meshram	SERB	2,173,317	8,22,800	146933	2021-24	--		Running	IIITA/Rahul HM/SERB/2021/01

33	Reliable and privacy Preserving Data Auditing for FOG-assisted Cyber Physical System (FOG-CPS)	Dr. Soumyadev Maity	IHub NTIHAC Foundation, C3IHub IIT Kanpur	22,40,240	1121520	1005420	2021-24	--		Running	IIITA/Soumyadev M/IITK/2021/02
34	Development of deep learning based hashing techniques for image retrieval – Indo-Taiwan	Dr. Shiv Ram Dubey	DST	2828580	359462	308348	2019-22	Submitted		Running	IIITA/Shiv Ram D/DST/2021/04
35	To create a state-of-art facility for big data analytics of large scale genomics and proteomics data - BIC	Prof. Pritish Varadwaj (Principal Investigator) and Dr. B. S. Sanjeev, Dr. Amaresh Kr. Sahoo, Prof. Krishna Misra, Prof. Tapobrata Lahiri, Dr. Sintu Kr. Samanta (CO-PI)	DBT	6,930,000	1000000	1255161	2021-26	Submitted		Running	IIITA/Pritish V/DBT/2021/01
36	Development of novel and cost-effective layered perovskite oxide ceramics for wireless communication applications	Dr. Upendra Kumar	SERB	5,043,764	3519000	2499148	2021-24	--		Running	IIITA/Upendra K/SERB/2021/02
37	FIST Program of DST	Dr. Pooja Mishra	DST	1,17,00000	9900000		2021-26	--		Running	IIITA/Pooja M/DST/2021/05
38	Risk Averse Resilience Framework for Critical Infrastructure Security	Prof. O.P.Vyas	IHub NTIHAC Foundation, C3IHub IIT Kanpur	3668000	1428000	482602	2021-24	--			IIITA/OP Vyas/IITK/2021/03
39	Strain-driven phonon-assisted tuning of excitonic lifetime in two-dimensional optoelectronic semiconductors	Dr. Sitangshu Bhattacharya	SERB	660000	220000	0	2021-24	--			IIITA/Sitangshu B/SERB/2021/03
<b>New Project 2022-23</b>											
40	Science Technology and Innovation Hub in Information and Communication Technology (ICT)	Prof. Neetesh Purohit	DST	18,666,933	13597093	7692151	2021-24	--		Running	IIITA/Neetesh P/DST/2022/01
41	Social Media Presence and Information and Communication Technology (ICT) Adoption Status for Improving Competitiveness in MSME Sector: A study of U.P	Dr. Shailendra Kumar, PI Dr. Utkarsh Goel, Prof. Vijaiashri Tiwari, Co-PI	ICSSR, MoE	400000	160000	138675	2022-23	--		Running	IIITA/Shailendra K/MoE/2022/01
42	Optimal Clustering using Hybrid Techniques in Wireless Sensor Networks (ID 1196)	Dr. Rajat Kumar Singh	CST UP	1044000	340000	58065	2022-25	--		Running	IIITA/Rajat/CSTUP/2022/01
43	Spintronic Devices based on hybrid materials (ID 489)	Dr. Pramod Kumar	CST UP	600000	250000	0	2022-25	--		Running	IIITA/Pramod/CSTUP/2022/02
44	Design and Implementation of Biocompatible Energy Harvesting Device for Low Frequency Operation	Dr. Sunny	SERB	5499307	3855370	0	2022-25	--		Running	
45	Characterization of Some Classes of Projections in Operator Spaces	Dr. Abdullah Bin Abubaker	SERB	660000	220000	0	2022-25	--		Running	
46	A study of black hole horizons with (semi) analytic approaches	Dr. Srijit Bhattacharjee	SERB	660000	220000	0	2022-25	--		Running	
47	Design and Development of Computer-Aided Diagnostic Software to Localize and Grade Eye Diseases using Deep Learning and Transformer Approaches	Dr. Anjali Gautam	SERB	2304544	986000	0	2022-25	--		Running	
48	Strain-driven phonon-assisted tuning of excitonic lifetime in two-dimensional optoelectronic semiconductors	Dr. Sitangshu Bhattacharya	SERB	660000	220000	0	2022-25	--		Running	
49	Spin induced properties of p-block elements based Van-der Waals heterostructures for prospective spintronics applications: An ab-initio approach	Dr. Sanjai Singh	SERB	1903264	687600	0	2022-25	--		Running	
50	Development of Multi-UAV Enabled Wireless Powered Collaborative Mobile Edge Computing System for Time-Sensitive IoT Applications	Dr. Nabajyoti Mazumdar	SERB	2733759	1389000	0	2022-25	--		Running	
51	NIPDD: Designing an Artificial Intelligence based CMOS Sensor system for Non-Invasive Detection of Parkinson's disease	Dr. Pritish Kumar Varadwaj	ICMR	2492743	2492743	0	2022-25	--		Running	
52	Thermo-Visible Deep Multimodal Ocular Biometric Recognition and Facial Thermal Profiling in COVID-19 Reality	Dr. Satish Kumar Singh	DST	1350240	450080	0	2022-25	--		Running	
53	Development of photoacoustic spectrum analysis protocol for morphological characterization of single cells - [BT/PR44547/MED/32/791/2021]	Dr. Ratan Kumar Saha, PI Dr. Amaresh Kumar Sahoo, Co-PI	DBT	1848040	646520	0	2022-25	--		Running	
54	Analytical Investigation on the Sum of Random Vectors and Application to Intelligent Reflecting Surfaces Aided Wireless Communications	Dr. Suneel Yadav	SERB	660000	220000					Running	

