

**ABV-IITM, Gwalior**  
**List of ongoing Projects and Consultancy**

S. No.	Title of the Project	Name of Principal Investigator	Funding Agency	Sanctioned Amount	Sponsored/ Consultancy
1	Technology Incubation & Development of Entrepreneurs (TIDE 2.0) in the areas of Electronics and ICT	Dr. Manoj Kumar Dash	MCIT, DIT, New Delhi	1,70,00,000	Sponsored
2	UNNAT BHARAT ABHIYAN	Dr Vishal Vyas	MHRD,	3,50,000	Sponsored
3	Assistive Learning Device for Children with Hearing Loss	Dr Vinal Patel	SERB NEW DELHI	10,77,340	Sponsored
4	Compact Modelling for Quasi-Ballistic Transport in GAA MOSFET and Design of Radiation Hardened SRAM Array	Dr Gaurav Kaushal	SERB NEW DELHI	28,21,170	Sponsored
5	Malware Analysis using Machine Learning Techniques for Industrial Control	Prof Aditya Trivedi	IIT Kanpur	15,07,040	Sponsored
6	Study of Impact of Integration, Seasonality and Control on Ecological and Epidemiological Models	Dr Anuraj Singh	SERB,NEW DELHI	21,56,264	Sponsored
7	Dynamic Bayesian Network model for behavioural study of autonomous data agents"	Dr K K Pattanaik	SERB,NEW DELHI	6,60,000	Sponsored
8	Machine Learning Aided Self Sustainable Future Wireless Networks	Dr Binod Prasad	SERB,NEW DELHI	27,62,475	Sponsored
9	Developing a framework for assessing innovation readiness, research intensity and technology resilience of firms	Prof Gyan Prakash	DSIR,NEW DELHI	25,00,000	Sponsored
10	Chips to Startup (C2S) Programme	Prof Manisha Pattanaik Chief Investigator / Co PI Dr Gaurav Kaushal	Meit New Delhi	4,80,00,000	Sponsored
11	Purification and Valorization through Indigenous Tailoring of Raw Polymeric Waste into Advanced Multidimensional Carbon Nano Materials (PAVITRAM) for Large Scale Energy Storage Applications Including Supercapacitors and Batteries"	Prof Anurag Srivastava	Kumaun University , Nainital	26,32,380	Sponsored
12	" Puff Dispersion Model for Instantaneous Release of Heavy Gas Chemicals"	Prof Joydip Dhar	DRDE , Gwalior	9,57,000	Sponsored
13	" Impact Analysis of Women Police Station (WPS) to reduce crime against women in the state of Madhya Pradesh "	Prof Anurag Srivastava / Co PI Dr Vinay Singh / Prof. Manoj Patwardhan	National Commission for Women , New Delhi	18,80,000	Sponsored
14	Exploring Trends in Science Technology and Innovation (STI) Indicators for Policy Planning	Dr Vishal Vyas	DST , New Delhi	6,59,880	Sponsored
15	" Design of Metamaterials for biosensing and ICT applications .	Dr Pinku Ranjan	DST , New Delhi	12,15,000	Sponsored
16	" Service Quality Index for In house Medical Facilities Case of Private and Public Higher Educational Institutional Institutions in India .	Dr Arun kumar / Co PI Dr. Vishal Vyas	ICSSR, New Delhi	8,50,000	Sponsored
17	Development of an Adaptive Smart City Framework to solve urban area problems using Internet of Things	Dr Veena Anand	SERB New Delhi	22,55,264	Sponsored
18	Development of Prototype Assistive Listening Device by Incorporating a Microphone Array and Haptic Stimulation	Dr Vinal Patel	DBT ,New Delhi	22,96,000	Sponsored
19	A I Model development and subsequent approval	Dr W W Godfrey	Tribmoon Agroforestry Pvt Ltd	85,000	Consultancy
20	Design and Development of Intelligent Physical Layer Security Techniques for Wireless Health Monitoring Applications	Dr Mahendra Kumar Shukla	SERB New Delhi	32,58,985	Sponsored
21	Design and Analysis of Hybrid FSO/THZ- based Backhaul Networks for 6G Communications	Dr Praveen Kumar Singhya	SERB New Delhi	20,25,180	Sponsored
22	Design and Development of a Millimeter wave Circularly Polarized Dielectric Resonator Antenna for Ka -Band (26.5 GHz-40 GHz) Satellite IoT Applications	Dr Rakesh Chowdhury	SERB New Delhi	25,00,000	Sponsored
23	A conceptual study on Model based Systems Engineering in the context of Compe Systems from DRDO ADRDE through contract for acquisition of research services mode	Prof Gyan Prakash	ADRDE AGRADRD	9,92,000	Sponsored
24	Unifying Goals in Smart EV Charging through Game Theory and Multi- Objective Optimization	Prof Pramod Kumar Singh	SPARC , IIT Kharagpur	89,52,000	Sponsored
25	Marathwada Centre for Economic Development (MCED) of GSM	Dr Manoj K Dash	Gramaudyogik Shikshan Mandal Aurangabad	10,00,000	Consultancy
26	"Two Dimensional Graphitic Carbon Nitride Hybrids based Solid State Flexible Supercapacitors Synthesis Simulation Characterization and Fabrication of High Energy and Power Density Devices"	Prof Anurag Srivastava	SPARC , IIT Kharagpur	79,32,000	Sponsored
27	"The Use Case Analysis of Blockchain Technology in Textile Quality Management -An Exploratory"	Dr Vinay Singh	Yagya Enterprises	5,25,000	Consultancy
28	Streamlining the Innovation Management Process and Developing a Blockchain-Enabled Innovation Management System for Intellectual Capital Protection at E-Spin Nanotech Pvt. Ltd	Dr Vinay Singh	E-Spin Nanotech Pvt Ltd.	6,10,000	Consultancy
29	Development of a self -updated recommendation system incorporating risk factors for tourism Industry using time series models	Dr Ajay Kumar	Yagya Enterprises	6,15,000	Consultancy
30	A Scalable Consensus and Energy Efficient Blockchain Enabled Healthcare System	Dr Amrendra Singh Yadav / Co PI Dr Avadh Kishor	C3IHUB'S IIT Kanpur	18,15,840	Sponsored
31	AICTE a Sponsored QIP Certificate Course	Prof Joydip Dhar	AICTE	20,00,000	Sponsored
32	Regarding the role of entertainment industry in removal of distress from young adults – An Exploratory Study	Dr Ajay Kumar / Co PI Dr Sunil Kumar	UNZIP Communication	5,35,000	Consultancy
33	Rekhi Centre of Excellence for the Science of Happiness	Dr Kapil Kant and Dr Rashmi Ranjan	Rekhi Centre of Excellence for the Science of Happiness	25,00,000	Sponsored
34	Design and analysis of Reconfigurable THz antenna with Machine learning approach for 6G Application	Dr Pinku Ranjan	TCoE India	16,00,000	Sponsored
35	Multihop Hybrid THz FSO Assisted Backhaul Links for Sixth Generation Communication	Dr Gaurav Pandey	TCoE India	1,92,00,000	Sponsored
36	Design and analysis of a semantic learning based architecture for end-to-end communication with resource management (214)	Prof Aditya Trivedi / Co PI Dr Mahendra Kumar Shukla	TCoE India	1,46,50,000	Sponsored
37	Trackling Channel Estimation in 6G based ISAC System aided by Intelligent Reflecting Surface (203)	Prof Aditya Trivedi / Co PI Dr Mahendra Kumar Shukla	TCoE India	37,65,300	Sponsored
38	Development of multi-refrence active noise cancellation and bone conduction headset for cleare communication under an extremely noisy environment of flight operation	Dr Vinal Patel / Co PI Dr Gaurav Sharma	DRDO New Delhi	28,33,760	Sponsored
39	Behavior -Conditioned Safety Aware Synthetic Generation for the Indian traffic	Dr Rahul Kala / Co PI Dr Deepak Kumar Dewangan	IIIT Hyderabad	10,00,000	Sponsored

40	Conceptual mathematical modeling for ecological sustainability	Dr Purnenu Mishra	Norwegian University of Life Sciences	Norwegian Krone 37400 (Rs.3,15,000/- approx)	Sponsored
41	Wellness Sense: Autonomous System for Smart Preventive Lifestyle Management	Dr Anjali	IIT MANDI	18,20,000	Sponsored
42	Development of Relayed Terahertz/Free space optical based communication systems over fading and turbulent environment	Dr Gaurav Sharma	DRDO, New Delhi	9,87,000	Sponsored
43	Development of Secure Mixed Terahertz Underwater Wireless Opticals Communication systems for Naval applications	Dr Gaurav Sharma	ANRF, New Delhi	58,00,000	Sponsored
44	Developing Standardized RF Data frameworks for AI Powered 6G Networks	Dr Amandeep Kaur	ANRF, New Delhi	57,00,000	Sponsored
45	Design of Compact MIMO Circularly Polarized Antenna for Next Generation Wireless Communications	Dr Somesh Kumar	Vidhilekha Soft Solutions Pvt Ltd, Haryana	6,09,400	Sponsored
46	Relevance of Clinical Evidence Data for Determining Insurance Premium and Coverage	Dr Narendra Singh Punj / Co PI Dr Vivek Tiwari / Dr Sunil Kumar	IIT Bhilai	7,10,000	Sponsored
47	Highspeed Stochastic Simulation Framework for Nanostructured Materials in Advanced Biomedical Applications	Dr Alok Kamal	ANRF, New Delhi	30,70,000	Sponsored
48	Micro Organism Physics Driven neural networks (MOPD -NNs) for thermo-bioconvection in porous cavities	Dr Prabir Barman	ANRF, New Delhi	33,51,952	Sponsored
49	A Study on the social integration of disabled persons and use of AI Assistance Technology research. The Contribution of higher Education in India.	Dr M K Dash	HEFA, Bengaluru	40,00,000	Sponsored
50	Aggregation operators on different classes of intuitionistic fuzzy numbers and its applications	Dr Jeevaraj S / Co PI Dr Pragya Shukla	King Faisal University Saudi Arabia	Saudi Riyal 15000 (Rs.342000/- approx.)	Sponsored
51	Multi Mobile Fall Detection India Research Consultancy Project	Dr Veena Anand	Propress, Instrumentation & Solutions Pvt Ltd, Delhi	1000000	Consultancy