S. No.	Project Title	Principal Investigator (PI)	Funding Agency	Total Financial Outlay	Status
1.	SMDP-C2SD (Low power processor-based power management unit for Internet of Things (loT) applications)	Prof. PN Kondekar	MeitY	268.5 lakhs	Ongoing (Project Extended)
2.	Structural, Electrical & Optical Properties Investigation of Ga2O3 thin films for deep ultraviolet photodetector applications	Dr Pankaj Sharma	INUP IISc	Lab Access	Ongoing
3.	Fabrication of High- Performance Metal Oxide Nanostructure Based Gas Sensors for Toxic Gas Sensing Applications	Dr Pankaj Sharma	IIITDM Jabalpur	5,00,000/-	Ongoing
4.	Development of Teaching Learning Centre at IIIT Pune under PMMMNMTT	Dr Pankaj Sharma	AICTE	14,70,000	completed
5.	Development of Li doped ZnO based electrolyte for low temperature solid oxide fuel cell (SOFC)	Dr Pankaj Sharma	DST SERB	33,86,750/-	Ongoing
6.	Interface Investigation of β- (AlxGa1-x)2O3/Ga2O3 Heterojunctions for High Electron Mobility Transistor Applications	Dr Pankaj Sharma	UGC DAE CSR	2,45,480/-	Ongoing
7.	Device-Circuit Co-Design Approach for Junction-less FET (JLFET) /Doping-less JLFET (DL-JLFET) Digital	Dr Pushpa Raikwal	PDPM IIITDM Jabalpur	7.10 Lac	Ongoing

	Circuits and Memory				
	applications.				
8.	Stability Improvement of	Dr Koushik Dutta	FIG (IIITDMJ)	775000/-	Ongoing
	Memristor based Futuristic				
	Memory Element				
9.	Analytical Modelling and	Dr D P Samajdar	DST SERB	2670170/-	Completed
	Simulation of III-V				
	nanostructure-based Hybrid				
	Solar Cells				
10.	Studies on electronic and	Dr D P Samajdar	CSIR	1710000/-	Ongoing
	optical properties in group	Dr John A Peter			
	III-V-N quaternary				
	semiconductor quantum				
	dots using density				
	functional theory and k dot				
	p method				
11.	Simulation of	Dr D P Samajdar	PDPM	150000/-	Completed
	Photodetectors based on		IIITDM		
	InSbBiN alloys and		Jabalpur		
	Quantum Dot Structures				
	using COMSOL				
	Multiphysics for Long				
	Wave Infrared (LWIR)				
	Applications				
12.	Design and Performance	Dr Navjeet Bagga	PDPM	750000	Ongoing
	Investigation of Negative		IIITDM		
	Capacitance Tunnel FET for		Jabalpur		
	Digital/Analog Applications				
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S. No.	Project Title	Principal Investigator (PI)	Funding Agency	Total Financial Outlay	Status
1.	Design, simulation and development of conformal phased array antenna for airborne applications		DRDO, India	52. 78 Lakhs	Ongoing
2.	Research facility for Advance Microwave & Communication Engineering	Dr Dinesh Kumar V Dr Manoj S Parihar Dr Matadeen Bansal	DST, India	2.05 Crore	Ongoing
3.	Universal UHF-RFID  Antenna: Design and  Development	Dr Trivesh Kumar	PDPM IIITDM Jabalpur	1,50,000	Ongoing
4.	An efficient use of discarded heterogeneous electronic waste for development of cost-effective microwave absorber	Dr Ravi Panwar	SERB	43,94,770	Ongoing
5.	Optimal design of multilayered microwave absorbing structures for stealth applications	Dr Ravi Panwar	PDPM IIITDM Jabalpur	1,50,000	Ongoing
6.	Design and prototyping of deep neural network enabled innovative conformal exterior stealth tanker drone	Dr Ravi Panwar		3,60,000	Ongoing
7.	Development of Advance Microwave and Communication Lab under FIST 2017	Dr Dinesh Kumar V Dr Manoj Singh Parihar & Dr Matadeen Bansal	DST	205.2 Lakhs	Ongoing

8.	Design, simulation and	Dr Dinesh Kumar V	DRDO	50.998 Lakhs	Ongoing
	development of conformal	Dr Manoj Singh Parihar			
	phased array antenna for				
	airborne applications				
9.	Low Profile Dielectric	Dr Biswajeet Mukherjee	SERB, DST	2600000	Ongoing
	Resonator Antennas for				
	Compact, Wideband and				
	Conformal Applications				
10.	ATAL AICTE Sponsored	Dr Biswajeet Mukherjee	AICTE	93000	Completed
	FDP				
11.	Technology Intervention in	Dr Biswajeet Mukherjee	SEED, DST	1568640	Ongoing
	Product design for the				
	Elderly - Case Studies on				
	Umbrella and Stick Designs				
12.	Design Solutions with	Dr Biswajeet Mukherjee	Design	195000	Completed
	Technological intervention		Innovation		
	of Walker for patients and the		Centre (DIC),		
	elderly		Jabalpur		
13.	Design, Development and	Dr Biswajeet Mukherjee	IIITDM,	114409	Ongoing
	Miniaturization of Dielectric		Jabalpur		
	Antennas for wireless and				
	high-power applications				
14.	Investigation of Compact and	Dr Biswajeet Mukherjee	MPCST, Bhopal	700000	Completed
	Miniaturized Dielectric				
	resonator Antenna loaded				
	with metamaterial-based				
	structures for Wireless				
	Application				
15.	Fractal based dielectric	Dr Biswajeet Mukherjee	SERB, DST	3076000	Completed
	resonator antennas for				
	compact, wideband and high				
	gain applications				

S. No.	Project Title	Principal Investigator (PI)	Funding Agency	Total Financial Outlay	Status
1.	Genomic & Proteomic Signal Processing	Dr Sanjeev N. Sharma	ATAL Online FDP Grant	93,000/-	
2.	Development of Signal Processing Based methods for Condition Monitoring of Machines	Dr Sanjeev N. Sharma	TEQIP-II Grant for Research Project	3,22,820/-	
3.	International Conference on Signal Processing	Dr Sanjeev N. Sharma	DST Grant	1,00,000/-	
4.	Two Week Staff Development Program	Dr Sanjeev N. Sharma	AICTE Grant	6,98,550/-	
5.	Design and Analysis of Multiplier less Multirate Filterbank with Low Complexity	Dr Anil Kumar	SERB-DST	18, 79,680	Complete
6.	Computer Aided Design for Development of Hardware prototype for Diagnosis of Diabetes using ECG Signals	Dr Varun Bajaj	CSIR	20 Lakh	Ongoing
7.	FPGA prototype of non- recursive key based cryptosystem for secure transmission of real-time privacy signal	Dr Varun Bajaj Dr Sarban Kumar Mohanti	DST/ICPS	24 Lakh	Completed
8.	Brain computer interface for classification of human emotions,	Dr Varun Bajaj	Research Initiation Grant in IIITDM Jabalpur	100000/-	Completed
9.	Development of Efficient Image Watermarking Techniques	Dr Irshad Ahmad Ansari	PDPM IIITDMJ	150000/-	Completed
10.	Investigation of Computational Intelligence Capabilities for Digital Signal Protection	Dr Irshad Ahmad Ansari Dr Om Prakash Verma	STEM-RS, UP	3,00,300/-	Ongoing
11.	Design and Development of ADHAAR (Autonomous Drone for Himalayan region	Dr. Om Prakash Verma	JCBRO, GB Nagar, UP	3,08000/-	Ongoing

12.	Analysis, Assessment and Rescue)  Smart Walker for Elderly People	Dr Irshad Ahmad Ansari Dr Irshad Ahmad Ansari	ARTPARK, IISC, Bengaluru	360000/-	Ongoing
13.	A Deep Convolutional Neural Network (CNN) and Generative Adversarial Networks (GANs)-based Product Development for the Detection of Skin Cancer using Enlarged Training Image Datasets	Dr Amit Vishwakarma	Faculty initiation Grant, PDPM IIITDM Jabalpur	35600/-	Ongoing
14.	Rice disease detection using machine learning	Dr Amit Vishwakarma Dr Anil Kumar	CFCL INDIA (0046036111)	342000	Ongoing
15.	Cassava plant disease analysis	Dr Amit Vishwakarma	ISTEM IISC Bangalore (AMITVISH002)	Availability of GPU and Travel facility (Worth Rs. 600000)	Ongoing

S.	Project Title	Principal Investigator	<b>Funding Agency</b>	<b>Total Financial</b>	Status
No.		(PI)		Outlay	
1.	Smart Room Ventilator	Prof. Prabin Kumar Padhy	DIC, MHRD,	276900/-	
1.	(SRV)	Prof. V K Gupta	Govt of India	210700/-	
2.	Improved controlled design	Prof. Prabin Kumar Padhy	DST, Govt of	30000/-	
۷.	for AQM routers	1 101. I faoin Rumai i adny	India	300000/-	
	supporting TCP flows		India		
3.	Brain Controller Mobile	Prof. Prabin Kumar Padhy	DST, Govt of	1850000/-	
	Robot	Prof. V K Gupta	India		
4.	Start Up Centre IIITDM	Prof. P. Tandon	MHRD and DST,		Award
	Jabalpur	Dr Sraban K Mohanty, Dr	GoI		
		Dr Sachin K. Jain			
5.	Time-varying harmonics	Dr Sachin K. Jain	SERB-DST		Complete
	and inter harmonics				
	estimation in real-time for				
	online applications				
6.	Study of specific areas	Dr Sachin K. Jain	SERB-DST		Complete
	registering high failure rate				
	of distribution transformers				
	to analyse the cause of				
	failure and suggest a				
	solution to overcome this				
	problem by applying IT				
	technology and integrating				
	it with metering solutions.				
7.	Study of specific areas	Dr V K Jain	DSIR DST		
	registering high failure rate	Dr S K Jain	Awarded		
	of distribution transformers				
	to analyse the cause of				
	failure and suggest a				
	solution to overcome this				
	problem by applying IT				

technology and integrating		
it with metering solutions.		

S.	Project Title	Principal Investigator	Funding	Total Financial	Status
No.		(PI)	Agency	Outlay	
1.	Energy efficiency	Dr Matadeen Bansal	PDPM IIITDM	2 Lac	Ongoing
	optimization of MIMO		Jabalpur		
	cognitive relay networks				
2.	Performance Analysis of	Dr Atul Kumar	IIITDM	1.5 Lac	Ongoing
	DCSK Modulation with		Jabalpur		
	Transmit Antenna Selection				
	without Requiring Channel				
	State Information				