

Research Projects

Collaborative R&D Projects Sanctioned by Department of Atomic Energy			
Sr. NO.	Name of research project	Faculty Member	Amount Sanctioned (INR)
1	Design and development of transmission line components for 42GHz/200kw/3sec Gyrotron for start-up studies in TOKAMAK ADITYA	1. Dr. Amit Patel 2. Dr. Keyur Mahant 3. Ms. Pujita Bhatt	29,84,800
2	Design and development of Phase Locked Loop (PLL) Circuit in Microwave Interferometer System for Fusion Plasma Diagnostics	1. Dr. J. P. Chaudhari 2. Dr. Amit Patel 3. Mr. Bhargav Patel	30,38,452
3	Studies and development of Reflectometry diagnostic system fo proposed PAM antenna of ADITYA TOKAMAK	1. Dr. Keyur Mahant 2. Dr. Amit Patel	30,25,050
4	Phase Detection System based on Digital Signal Processing in Millimeter Wave Interferometer for Fusion Plasma Diagnostics	1. Dr. Hiren Mewada 2. Dr. Amit Patel 3. Prof. Alpesh Vala	20,41,052
Collaborative R&D Projects Sanctioned by IRDE, DRDO			
1	Development of Analog Front-End and power distribution and regulation Network for Electro-optical Payload for VNIR	1. Prof. Jagrat Mehta 2. Prof. Kishan Patel	9,90,000
2	Development of Camera Electronics for Electro-optical Payload for VNIR	1. Prof. Rikin Nayak 2. Prof. Karan Jasani	9,90,000
Collaborative R&D Projects Sanctioned by CRL-BEL			
1	Real Time Atmospheric Turbulence Mitigation in CCD / TI Videos	1. Prof. Dippal Israni 2. Dr. J. P. Chaudhari	17,80,000

Collaborative R&D Projects Sanctioned by Solution with Innovation-USA

1	Development Of Advance Low Cost Contact And Non Contact Liquid Level Measurement Device.	<ol style="list-style-type: none"> 1. Dr. Amit Patel 2. Prof. Alpesh Vala 3. Dr. Keyur Mahant 4. Dr. Hiren Mewada 	5,00,000
---	--	---	----------

Sr. No.	Faculty member	Funding Agency	Name of the research project	Amount sanctioned (INR)
1	Dr. Trushit Upadhyaya(PI) Dhara P Patel(Co PI)	GUJCOST	Effect of Electromagnetic Waves on Plants	3,00,000
2	Dr. Killol Pandya	GUJCOST	Biological electronic circuit made from blood serum, blood and silicon rubber tubular harness	1,05,000
3	Dr. Trushit Upadhyaya	SLS ,V.V Nagar	Dual Band Communication Hub	80,000
4	Dr. Hiren K. Mewada	GUJCOST	Object shape extraction and boundary mapping from natural images	3,30,000
5	Dr.Trushit Upadhyaya	GridScape Solution	Charge point Simulator SOAP API Design & Web Application	30,000
6	Dr. Trushit Upadhyaya	SAC ISRO,Ahmedabad	Design and development of a miniaturized Dual-Band/ Tri-Band antenna using 7Negative R8refraction 9Index technique	6,80,000
7	Dr.Trushit Upadhyaya	Energy System Engineering	Design & Implementation of Digital Interface for Active Harmonic Filter using Hysteresis Current Controller	10,000

8	Dr.Trushit Upadhyaya	Twin Engineers	Design of Antenna for Industrial Application	20,000
9	Dr. Trushit Upadhyay Prof. Jignesh Patoliya	Margen Impex Ltd	Design of Safety Board	10,60,000