

### Major and Minor Research Projects

Year	Faculty Name	Project Details	Status	Duration	Funding Amount	Funding Agency
2019-20	Dr. Yogesh Meghrajani Dr. H.. S. Mazumdar	Modelling and Prediction for Control of Plasma Disruptions in Tokamak using Machine Learning	Ongoing	2 years	Rs.29,30,100	Dept. of Atomic Energy, Govt. of India
2016-17	Dr. Prarthan D. Mehta Dr. R. H. Alad	Design & development of hardware module for the phase & power measurement for 64 channels of LHCD	Completed	2 years	Rs.24,06,900	Dept. of Atomic Energy, Govt. of India
2015-16	Dr. Mitesh Limachia	FinFET based SRAM Cell Design	Completed	2 years	Rs.7,30,000	Gujarat Council on Science and Technology (GUJCOST), Govt. of Gujarat

### Other Funded Projects

Year	Faculty Name	Project Details	Status	Duration	Funding Amount	Funding Agency
2017-18	Prof. S. P. Thakkar	Development of a low cost speech therapy device for taining of disabled	Completed	1 Year	Rs. 8000	Shri S. G. Brahmhatt Badhir Vidyavihar, Nadiad
2015-16	Dr. P. D. Mehta	Design & Development of a Metamaterial Absorber for the Frequency Band of 300MHz-4GHz (UHF band)	Completed	2 years	Rs.70,000	Gujarat Council on Science and Technology (GUJCOST), Govt. of Gujarat
2013-14	Prof. S. P. Thakkar	OCR Mobile Application for Indoor Movement of Blind People	Completed	1 Year	Rs.1,00,000	DST, Govt. of India, under IEDC
2013-14	Dr. P. D. Mehta	Electronic Personal Assistance System	Completed	1 Year	Rs.1,00,000	DST, Govt. of India, under IEDC
2010-11	Prof. M. K. Patel	Microcontroller Based Inverter	Completed	1 Year	Rs.1,00,000	DST, Govt. of India, under IEDC

### Student Start up & Innovation Projeccts

Year	Faculty Mentor	Project Title	Status	Funding Agency	Funding Amount	Student Leader
2019-20	Prof. M. B. Soni	Low Cost Ventinator	Ongoing	SOIC, Gujarat	25000	Prit Varmora (Sem VIII)
2019-20	Prof. P. V. Patel	IoT Based Efficient Irrigation System for In-house Plantation	Ongoing	SSIP, Gujarat	18000	Trivedi Jahnvi (Sem-VI)
2019-20	Prof. P. V. Patel	Digital Wireless Notice Board for an Educational Institute	Ongoing	SSIP, Gujarat	15000	Virani Siddh (Sem-VI)
2019-20	Prof. P. V. Patel	Development of an Interactive Educational Tool for KG Students	Ongoing	SSIP, Gujarat	20000	Dobaria Ankit (Sem-VI)
2019-20	Dr. M. J. Limachia	Smart Ultrasonic Stick for Visually Challenged People	Ongoing	SSIP, Gujarat	9000	Anmol Bhatia (Alumnus)
2019-20	Prof. M. B. Soni	Smart Helmet	Ongoing	SSIP, Gujarat	10025	Prit Varmora (Sem VIII)

### Projects in collaboration with MHRD

Year	Faculty	Project Title	Status	Funding Agency	Funding Amount	Type
2018-19	Prof. P. V. Patel	MATLAB Programming for Numerical Computation' in Gujarati	Completed	MHRD	12500	Software Based Review Project
2016-17	Prof. P. V. Patel	Communication and Signal Processing	Completed	MHRD, FOSSEE	4000	Scilab Lab Migration (Proposed by other Institutes)
2016-17	Prof. A. B. Pandya	Network Analysis	Completed	MHRD, FOSSEE	4000	FreeEDA Lab Migration
2015-16	Dr. P. D. Mehta	A Textbook of Electrical Technology in SI units Volume-I by B. L .Theraja	Completed	MHRD, FOSSEE	5000	FreeEDA Text Book Companion
2015-16	Prof. B. D. Parmar	C Made Easy Herbert Schildt	Completed	MHRD, FOSSEE	10000	Python Text Book Companion
2015-16	Dr. P. D. Mehta	Elements Of Electrical Science by P. Mukhopadhyay	Completed	MHRD, FOSSEE	10000	Reviewer -- Scilab Text Book Companion
2015-16	Dr. P. D. Mehta	Schaum's Outlines Of Electronic Devices And Circuits by J. J. Cathey	Completed	MHRD, FOSSEE	10000	Reviewer -- Scilab Text Book Companion
2015_16	Dr. P. D. Mehta	Semiconductor Circuit Approximations by Malvino	Completed	MHRD, FOSSEE	10000	Reviewer -- Scilab Text Book Companion
2014-15	Prof. H. N. Shah	Mobile Communication	Completed	MHRD, FOSSEE	7000	Scilab Lab Migration
2014-15	Prof. S. P. Thakkar	Probability Theory and Random Processes	Completed	MHRD, FOSSEE	7000	Scilab Lab Migration

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2014-15	Dr. P. D. Mehta	Digital Signal Processing from Sree Dattha Institute of Engineering and Science	Completed	MHRD, FOSSEE	4000	Scilab Lab Migration
2014-15	Dr. P. D. Mehta	Fundamentals of Engineering Electromagnetics by S. Bhooshan	Completed	MHRD, FOSSEE	10000	Scilab Text Book Companion
2014-15	Dr. P. D. Mehta	Thermodynamics and Heat Power by I. Granet and M. Bluestein	Completed	MHRD, FOSSEE	10000	
2014-15	Dr. P. D. Mehta	Concepts of Physics (Volume-I) by H. C. Verma	Completed	MHRD, FOSSEE	10000	
2014-15	Dr. P. D. Mehta	Electronics Fundamentals and Applications by D. Chattopadhyay and P. C. Rakshit	Completed	MHRD, FOSSEE	10000	
2014-15	Prof. P. V. Patel	Digital Image Processing by R. C. Gonzalez & R. E. Woods	Completed	MHRD, FOSSEE	10000	
2014-15	Dr. N. J. Kothari	Digital Principles And Applications by Donald P Leach, Albert Paul Malvino, Goutam Saha	Completed	MHRD, FOSSEE	5000	FreeEDA Text Book Companion
2014-15	Prof. M. B. Soni	Fundamentals of Digital Logic Design by Stephen Brown & Zvonko Vrenesic	Completed	MHRD, FOSSEE	5000	

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2014-15	Prof. M. B. Soni	Digital Fundamentals by Thomas Floyd	Completed	MHRD, FOSSEE	4000	FreeEDA Text Book Companion
2014-15	Dr. P. D. Mehta	Antenna and Wave Propagation by <i>S. Wali</i>	Completed	MHRD, FOSSEE	10000	Reviewer -- Scilab Text Book Companion
2014-15	Dr. P. D. Mehta	Basics Of Electrical Engineering by <i>S. Sharma</i>	Completed	MHRD, FOSSEE	10000	Reviewer -- Scilab Text Book Companion
2014-15	Dr. P. D. Mehta	Electronic Devices by <i>S. Sharma</i>	Completed	MHRD, FOSSEE	10000	Reviewer -- Scilab Text Book Companion
2013-14	Prof. P. V. Patel	Digital Signal Processing	Completed	MHRD, FOSSEE	4000	Scilab Lab Migration
2013-14	Dr. P. D. Mehta	Applied Mathematics for Communication Engineers	Completed	MHRD, FOSSEE	7000	
2013-14	Prof. B. B. Patel	Image Processing	Completed	MHRD, FOSSEE	7000	
2013-14	Dr. P. D. Mehta	Antenna Wave Propagation by Darshan Modi, VESIT	Completed	MHRD, FOSSEE	4000	
2013-14	Dr. P. D. Mehta	Digital Signal Processing by P. Kalaiselvan, Anna University	Completed	MHRD, FOSSEE	4000	