

## DETAILS of SPONSORED RESEARCH PROJECTS IN ELECTRONICS ENGINEERING DEPARTMENT

(as on 22/06/2023)

### On-going:

Sr. No.	Title of the project	Sponsoring agency	Date/ From ___ To ___	Total Sanctioned Amount	Coordinator / Project Investigator	Status
1.	Onboard Spectral Preprocessing for multispectral image compression using FPGA	ISRO RAC-S, MNIT, Jaipur	16/02/2023 3 Years	Rs. 18,62,920	Dr. A. D. Darji	On Going
2.	Polarization tunable circularly polarized antenna with graphene for Ka band applications	ISRO RAC-S, MNIT, Jaipur	16/02/2023 3 Years	Rs. 71,500	Dr. S. Gupta	On Going
3	Capacity building for Human Resources Development in Unmanned Aircraft System (UAS) and Drone and related Technology.	MiETY, New Delhi	Sept., 2022 5 Years	Rs. 1,87,00,000	Dr. A. D. Darji, DECE Dr. D. P. Rana, DoCSE Dr. Suresh Dahiya, DECE	On Going
4.	Design and Development of MEMS-Based portable platform with ionselective Self-Assembled Monolayer SAMs for the detection of toxic Heavy Metal Ions HMIs in ground water.	Department of Science and Technology, New Delhi	24/03/2022 3 Years	Rs. 34,27,402	Dr. A. D. Darji Dr. Dinesh Rotake	On Going
5.	Deep Learning Based Signal Classification for Position Accuracy of NavIC/GPS".	Department of Science & Technology, Technology Bhavan, New Delhi	30/09/2021 2 Years	Rs. 24,80,220	Dr. Darshna Jagiwala Dr. S. N. Shah (Mentor)	On Going
6.	CapsNetwork – International Network for Capsule Imaging in Endoscopy	Research Council of Norway (RCN), Norway	01/06/2021 6 Years	Rs. 61,00,000	Dr. K. P. Upla	On Going
7.	Fractal Metamaterials and its application to Wearable Antennas	Department of Science & Technology, Technology Bhavan, New Delhi	20/02/2018 3 Years	Rs. 22,54,920	Dr. Kirti Inamdar	On Going
<b>Total Rs.</b>				<b>Rs. 3,48,96,962</b>		

**Completed:**

Sr. No.	Title of the project	Sponsoring agency	Date/ From ___To___	Total Sanctioned Amount	Coordinator / Project Investigator	Status
1.	Design and Development of Co-Planar Waveguide based Wearable Bio-Sensor for Medical Application	Ministry Of Science and Technology Department of Bio Technology	02/03/2020 2.5 Years	Rs. 17,57,440	Dr. P. N. Patel Dr. J. N. Sarvaiya	<b>Completed</b>
2.	Visvesvarya Project – Young Faculty Research Fellowship	Digital India Corporation (formerly Media Lab Asia), Govt. of India	1/2/2018 to 30/09/2022	Rs. 15,84,200	Dr. P. N. Patel	Completed
3.	Study & Implementation of GANS for Image Super-resolution: Application to Images captured using CCTV	Deity, Ministry of Communication and Information Technology, New Delhi	10/08/2018 to 09/08/2021	Rs. 23,03,180	Dr. K. P. Upla	Completed
4.	SIRMI – Strengthening IRNSS receiver by mitigation of Interference	ISRO, Bengaluru	13/09/2017 to 31/03/2021	Rs. 31,21,000	Dr. U. D. Dalal Dr. S. N. Shah	Completed
5.	Study, Design and Simulation of Ionospheric Delay Effects Based On Ionospheric Models & Their Correction Techniques Using Software Define Radio	SAC, ISRO, Ahmedabad	23/01/2017 to 31/03/2020	Rs. 18,90,000	Dr. S. N. Shah	Completed
6.	Special Manpower Development Programme for chips to System Design (SMDP-C2SD)	DEIT, MCIT, Gol, New Delhi	01/02/2015 to 30/11/2021	Rs. 88,62,530	Dr. A. D. Darji Mr. P. J. Engineer	Completed
7.	IRNSS Navigation Receiver Field Trail and Data Collection	Space Application Center, Ahmedabad	01/03/2015 to 31/03/2017	---	Dr. U. D. Dalal	Completed
8.	FPGA Based Adaptive Filter Algorithm Implementation for external noise cancellation	DAE, BRNS, Gol, Mumbai	27/10/2015 to 30/07/2018	Rs. 24,87,750	Dr. A. D. Darji Dr. J. N. Sarvaiya	Completed
9.	Fabrication & Characterization of Conventional & Quantum Dots Floating GATE MOSCAP Structure	INUP, IIT Bombay	1/10/2013 to 31/03/2014	---	Dr. R. M. Patrikar Dr. V. Mishra Ms. R. N. Dhavse	Completed

	for Thin Tunnel Oxides					
10.	Fabrication of Fiber Granting	INUP, IIT Bombay	01/01/2013 to 30/06/2013	---	Dr. V. Mishra	Completed
11.	Characterization of Porous Silicon Structure	INUP, IIT Bombay	01/01/2012 to 30/06/2012	---	Dr. V. Mishra Mr. P. N. Patel A. K. Panchal	Completed
12.	Spectrum Security in Cognitive Radio.net	University of Pune, BCUD	01/01/2014 to 31/12/2014	---	Dr. V. Mishra	Completed
13.	Development of Intelligent optical bio-chemical sensor using optical fiber gratings	Department of Science and Technology, New Delhi	01/10/2012 to 31/03/2016	Rs. 27,60,000	Dr. V. Mishra	Completed
14.	Laboratory Development for Wireless Communication	Agilent Technologies	28/03/2011 to 31/03/2016	16 lacs in terms of SystemVue Software and VSA	Dr. U. D. Dalal	Completed
15.	Fabrication and Characterization of Porous Silicon and its Application as an Optical Biosensor	Defence Research & Development Organization, New Delhi	15/03/2011 to 05/05/2015	Rs. 28,50,000	Dr. V. Mishra Mr. P. N. Patel Dr. J. N. Sarvaiya	Completed
16.	Performance Appraisal of A FG MOS Transistor by Using Quantum Dots Floating Gate in 45 nm Regime	Department of Science and Technology, New Delhi	21-11-2011 to 25-06-2014	Rs. 16,43,117	Dr. V. Mishra Ms. R. N. Dhavse	Completed
17.	Special Manpower Development Project for VLSI Design and Related Software (SMDP-II)	DIT, MCIT, GoI, New Delhi	08-11-2005 to 31-05-2013	Rs. 45,47,950	Mr. A. D. Darji Mr. Z. M. Patel	Completed
<b>Total Rs.</b>				<b>Rs. 3,38,07,167</b>		