



ENGINEERS WITH
SOCIAL RESPONSIBILITY

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NAAC Accredited

Recipient of Centre of Excellence Award by the Government of Gujarat

Recipient of '5 Star' in GSIRF Ranking by Government of Gujarat

3.2.3 List of research projects sponsored by the government agencies during 2017 - 18 to 2021 - 22

Sr. No.	Name of the Scheme	Name of the Funding Agency	Year of Award	Weblink
1	RESPOND Project - "Development of microwave absorber (Carbonyl Iron filled Silicon Rubber Sheets) in 1 to 8 GHz range"	SAC-ISRO	2017	Weblink
2	Desertification and Land Degradation: Monitoring, Vulnerability Assessment and Combating Plans"	SAC-ISRO	2017	Weblink
3	Using Mobile Sensing Mechanism to Assess Smart Phone Addiction and its Negative impact on Students	ICSSR Ministry of HRD	2018	Weblink
4	Archival Vector DNA Data Storage	DST, GOI	2019	Weblink
5	Teachers Association for Research Excellence (TARE)	DST-SERB	2019	Weblink
6	Respond project - Design and simulation of Beamforming Algorithms and baseband technologies for SATCOM	SAC-ISRO	2019	Weblink
7	A Device for Bed Load Measurement	DST-SERB	2019	Weblink
8	Multiscale and Simulation of complex plasma Dynamics during High power Millimeter wave Breakdown	DST-SERB	2019	Weblink
9	Design and Field Training Testing of an Energy Autonomous Internet of Things Enabled Cattle Estrus Detection Device Targetted for Resource Constrained Regions	DST, GOI	2019	Weblink
10	Design and simulation of Physical Layer and Medium Access Control (IMAC) Layer Functionalities of Future Mobile Satellite Systems	SAC-ISRO	2019	Weblink
11	SAR Polarimetric Image classification using Wishart Mixture model and Convolution Neural Networks	SAC-ISRO	2019	Weblink
12	Respond Project – Satellite Network Simulator with ULPC and ACM features	SAC-ISRO	2019	Weblink
13	Adaptive Beam Forming for Mitigation interference and Jamming at the Ground Terminal of Global Navigational Satellite Systems	SAC-ISRO	2019	Weblink

14	DST-FIST Program	DST, GOI	2020	Weblink
15	Design of a novel and Ultra-low power All Digital Front Acquisition with configurate Time of Digital converter and Integrated Application Specific Processor for Detection of Myocardial Infarctions	DST-SERB	2020	Weblink
16	IoT enabled 2-0 Nanomaterial Leaf Wetness Micro on Flexible Substrate for Integrated Plant Disease Management	DST-SERB	2020	Weblink
17	Speech to Speech Machine Translation (SSMT) : Pilot System	IIIT Hyderabad	2020	Weblink
18	IOT Enabled, smart Micro-Sensor for Integrated Plant Disease Management	GUJCOST	2020	Weblink
19	Dynamical Sampling and Representation of Frames via Iterated Operator Systems	DST-SERB	2020	Weblink
20	Development of geo-magnetism based indoor navigation system	DST, NGP Div	2020	Weblink
21	Computational investigations of instability driven transport in low temperature magnetized plasma discharges using massively parallel 2D-3v PIC-MCC simulations	NSM (National Supercomputing Mission)	2021	Weblink
22	Design and implementation of a visibility Improvement model for haze removal in images acquired from real time CCTV camera	GUJCOST	2021	Weblink
23	A forensic Tool for Land Revenue Documents Forgery Detection	GUJCOST	2021	Weblink
24	Development of an Integrated Intelligent Surveillance system for Suspicious Behaviour Analysis	DST-SERB	2021	Weblink
25	IoT enabled, Self-Calibrating and Self-Healing Sensor System for In-Situ Agriculture Applications	TIH, IIT Bombay	2022	Weblink
26	Speech Technologies in Indian Languages - National Language Translation Mission (NLTM)	E & IT - GoI	2022	Weblink
27	Indian Language to Indian Language Machine Translation-National Language Translation Mission (NLTM)	E & IT - GoI	2022	Weblink
28	An empirical analysis on Deriving Test Cases from Natural Language Text using MBT approach	SAC-ISRO	2022	Weblink
29	Discourse Integrated Dravidian Language to Dravidian Language Machine Translation (DL-DiscoMT) - Under - National Language Translation Mission (NLTM)	E & IT - GoI	2022	Weblink
30	Implementation techniques of discrete and continuous time quantum random walks and their applications	E & IT - GoI	2022	Weblink
31	Kavach-Futuristic Flexible electronics based Communication system for Monitoring soldier's condition during welfare	GUJCOST	2022	Weblink

32	Miniaturization and calibration of an IoT enabled ultra-low power consuming heart monitoring of patient with cardiovascular diseases for resource constrained regions	GUJCOST	2022	Weblink
33	Prototyping Dog Jacket for Real Time Rescue Operation inspired by Robotics Technology	GUJCOST	2022	Weblink