Sl.No.	Title of the project	Name of the Institution
	List of Ongoing RESPOND Projects as of July, 2023	
1.	Influence of Particle Irradiation on Photo Absorption and Charge Separation Kinetics in Organic Solar Cells	Amrita School of Engineering, Amrita Vishwa Vidhyapeetham Bengaluru, Karnataka
2.	A Compact Low Volume Dielectric Resonator Antenna Loaded with Metamaterial Structure for Small Satellite Applications	Indian Institute of Technology (ISM) Dhanbad, Dhanbad Jharkhand
3.	Control Oriented air-breathing scramjet engine propulsion system model for TSTO(Two-stage-to-Orbit) mission	GMR Institute of Technology, Rajam, Srikakulam (Dist), Andhra Pradesh
4.	X-ray Study of Galaxy Clusters	University of Kashmir, Srinagar, Jammu & Kashmir
5.	Development of engineered mount for single element dielectric resonator antenna and arrays for space borne applications	University of Calcutta, Kolkata, West Bengal
6.	Design and Analysis of an Integrated Optic Microring Resonator Array based Sensor system for Detection of Multiple Gases	M S Ramaiah University of Applied Sciences, Bangalore, Karnataka
7.	Development of S/X/Ka multiband Feed	C V R College of Engineering, Hyderabad, Telangana
8.	Multi-Temporal Interferometric SAR (MT-InSAR) studies for near real time landslide monitoring	Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar Pradesh
9.	Design and development of Optimized Miniature Antenna modules with duality function for inflatable satellite antenna setup	Veltech Dr. RR & SR University, Chennai, Tamil Nadu
10.	A High-Speed SAR Analog to Digital Converter (ADC) with low distortion sample-hold front end	International Institute of Information Technology Bangalore, Bengaluru, Karnataka
11.	Predicting Reliability and Optimal Release Time of various categories Software Systems	Indian Institute of Technology (ISM), Dhanbad, Dhanbad, Jharkhand
12.	Design and study of Nano and micro displacement sensor based on Photonic Crystal Fiber model Interferometer	Indian Institute of Technology Bhubaneswar, Bhubaneswar, Odisha

13.	Investigation on thermally assisted friction stir welding of Nickel based superalloy for gas ducts in Cryogenic and Semi Cryogenic Engines	PSG College of Technology Coimbatore, TN
14.	Development of electrically conducting & Atomic Oxygen resistant CNT reinforced Polyimides for space applications	Visvesvaraya Technological University, Muddenahalli Campus, Chikkaballapur, Karnataka
15.	Structure and Mechanical Properties of Ultra-Fine Grained Cu-Cr/Cu-Cr-Ti alloy processed by Equal Channel Angular Processing	National Institute of Technology Tiruchirappalli, Tiruchirappalli, Tamil Nadu
16.	Ku-band Tx/Rx Transportable Reflect Array Antenna for satellite communication	Sri Venkateswara College of Engineering, Sriperumbudur, Tamil Nadu
17.	Modeling Spatio-temporal forest growth dynamics using Dendroclimatological and Remote Sensing observations in North East India	Mizoram University, Aizawl, Mizoram
18.	Investigation of Ionospheric Irregularities using Coherent Radar Imaging	Vellore Institute of Technology Andhra Pradesh, Amaravati, Andhra Pradesh
19.	Automated structural evolution and performance optimization of RF bandpass filters-An evolutionary Algorithmic Design Approach	Amrita Vishwa Vidyapeetham Coimbatore, Tamil Nadu
20.	A big data processing framework to model vector borne disease dynamics based on the seasonal changes	Vellore Institute of Technology, Vellore, Tamil Nadu
21.	Automation of Transport and Building Feature Extraction using deep learning with Super-Resolution Enhancement of Satellite Imagery	Amrita Vishwa Vidyapeetham Coimbatore, Tamil Nadu
22.	Synthesis of aqueous Polychlorotrifluoro Ethylene (PCTFE) Dispersion for Cryogenic Applications (Phase-1)	Shriram Institute for Industrial Research, Delhi,
23.	Simultaneous Aging and Corrosion Inhibition Process of Maraging Steel used in Satellite Launch Vehicles	Amal Jyothi College of Engineering, Kanjirappally, Kerala
24.	Nanoparticle-enhanced gel propellant	Indian Institute of Technology Ropar, Rupnagar, Punjab
25.	Effect of shot peening and laser shock peening on Fatigue behaviour of Ti-15V-3Al-3Sn-3Cr	Vellore Institute of Technology, Vellore, Tamil Nadu

26.	Design, Fabrication and Characterization of Uncooled Microbolometer for IR Imaging Applications	Indian Institute of Technology Hyderabad, Kandi, Telangana
27.	Development of Automated Web based Online Feature Tracking system using Shape Adaptive Curvelet with PCA and Haralick Texture Feature	Vellore Institute of Technology, Vellore, Tamil Nadu
28.	Geospatial numerical modelling of debris flow for quantitative landslide risk assessment considering the entrainment	Indian Institute of Technology Indore, Simrol, Indore, Madhya Pradesh
29.	Late Quaternary Geomorphic Evaluation of alluvial fans in Himalayas: Implication to past climate reconstruction and Tectonic activity	Indian Institute of Science Education & Research (IISER) Kolkata Mohanpur Campus, Mohanpur, West Bengal
30.	Decadal-Scale Change Analysis of Coastal Ramanthapuram District in Tamil Nadu	Gandhigram Rural Institute (Deemed University) Gandhigram, Tamil Nadu
31.	Design and fabrication of an interface ASIC for a vibratory gyroscope sensor application	Indian Institute of Technology Mandi, Mandi, Himachal Pradesh
32.	Development, Testing and Characterization of 1m Dia Ku-Band P.E.E.K parabolic reflector with and without metallization for Spacecraft Applications	Central Institute of Plastic Engineering and Technology (CIPET), Ahmedabad, Gujarat
33.	Dynamics of sedimentation and its impact on local resources in Upper North Bank of Brahmaputra: An integrated study using field surveys and geospatial technologies	Gauhati University, Guwahati, Assam
34.	Testing Particle Physics model from cosmic microwave background and large scale structure observations	Gauhati University, Guwahati, Assam
35.	Investigations on transient rotor dynamic behavior of cryogenic Engine Turbo-pump including characterization of Dynamic properties of rotor seal	Indian Institute of Technology Delhi, New Delhi
36.	High performance polymer Ketone-Carbon Fibre composite for future generation aviation and space applications	Amrita Vishwa Vidyapeetham Coimbatore, Tamil Nadu
37.	Spray light suppression in optical payloads via nanostructured absorbing surfaces fabricated by femtosecond laser patterning	University of Hyderabad Hyderabad, Telangana

38.	Development of graphene based transparent and conductive coating for spacecraft applications	Indian Institute of Technology Roorkee, Roorkee, Uttarakhand
39.	Development of High Sensitivity CMOS-MEMS Integrated Smart Pressure Sensor and System for space applications	National Institute of Technology Meghalaya, Shillong, Meghalaya
40.	Integrated geospatial approach for sustainable water management - study of Bengaluru	Global Academy of Technology, Bengaluru, Karnataka
41.	Development of a three dimensional, unsteady, compressible flow solver (based on LES methodology) to optimize shape of a launch vehicle for reducing aerodynamic drag and flow induced acoustic noise at transonic Mach numbers	Indian Institute of Technology Bhubaneswar, Arugul, Odisha
42.	Development of photodetectors based on graphene like 2D hybrid materials for identification of submillimeter waves	Jawaharlal Nehru University, New Delhi
43.	Observational and modeling study of the Equatorial Ionization Anomaly (EIA) around 95 E meridian	Dibrugarh University, Dibrugarh, Assam
44.	Study of spectral and timing features in neutron-star and black hole X-ray binaries with Astrosat	Ramniranjan Jhunjhunwala College, Mumbai, Maharashtra
45.	Urban flood monitoring and management in Bangalore city using Remote Sensing and GIS	Sri Venkateshwara College of Engineering, Bengaluru, Karnataka
46.	Theoretical and observational study of PAHs at different temperature	GITAM School of Technology, Hyderabad, Telangana
47.	Collisional rates coefficients for rotational transitions in Methanimine and their applications in Space Science and Interstellar medium	Amity University, Noida, Uttar Pradesh
48.	Design and simulation of physical layer and Medium Access Control (MAC) layer functionalities of future mobile satellite systems	Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar, Gujarat
49.	Framework for evaluation of Hydrological components in watershed under the scheme of Prime Minister Krishi Sinchayee Yojna (PMKSY) (Watershed Development Component-WDC)	Visvesvaraya Technological University, Belagavi, Karnataka

50.	Low Frequency waves and fluid instabilities in Dusty Space Plasmas	Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh
51.	Modeling and development of high-strength and lightweight CNT- based composite structure for high performance electromagnetic interference shielding of space vehicles	Indian Institute of Technology Indore, Simrol, Indore, Madhya Pradesh
52.	VLSI implementation of Low Density Parity Check (LDPC) Encoder/Decoder for on-board/ground satellite applications	National Institute of Technology Calicut, Kozhikode, Kerala
53.	Evaluation of Mechanical Performance of the 3-D printed PEEK polymer used in space applications	Birla Institute of Technology & Science Pilani, K K Birla Goa Campus Zuarinagar, Goa
54.	Elucidation of the deformation signatures and fluvial activity near junction of Noachis Terra with Margaritifier and Arabia Terra	Asutosh College, Kolkata, West Bengal
55.	Investigation of spectro-temporal variabilities of stellar mass Black Hole X-ray binaries using Astrosat	Dayananda Sagar University, Bengaluru, Karnataka
56.	Delaying programmed cell death of beneficial gut bacteria in microgravity using oxide and complex nanoparticles	Indian Statistical Institute, Kolkata, West Bengal
57.	Plasma sprayed $Gd_2Zr_2O_7$/YSZ Thermal Barriers coatings for aerospace Engine Components	Sathyabama Institute of Science & Technology, Chennai, Tamil Nadu
58.	System Design for Ground Based Beam Former	Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar, Gujarat
59.	Design, analysis and implementation of sliding mode controller for Quadrotor UAV	Manipal Institute of Technology, Manipal, Karnataka
60.	Morphometry, soil erodibilty and productivity potential of flood prone Brahmaputra basins of Dhemaji district using Remote Sensing and GIS	Assam Agricultural University, Jorhat, Assam
61.	Design and development of ANFIS controller	Sathyabama Institute of Science & Technology, Chennai, Tamil Nadu

62.	Estimation of Crop Water Productivity (CWP) in the major river basins of Tamil Nadu using geospatial technology	VIT University Vellore, TN
63.	Impacts of laser processing on Russian Super Alloy to prevent failure	Indian Institute of Technology Jammu, Jammu, Jammu & Kashmir
64.	Behavioral Modeling and Digital Pre-Distortion (DPD) of High Power Amplifiers for Satellite Systems	Amrita Vishwa Vidyapeetham, Bengaluru, Karnataka
65.	Vision guided Auto-Lander for Planetary missions	Jadavpur University, Kolkata, West Bengal
66.	Design of High Slew Rate, Low Offset and Low Drift Operational Amplifier (OPAMP) in 180nm SCL's CMOS fabrication technology	Dr. Mahalingam College of Engineering & Technology, Pollachi, Tamil Nadu
67.	Integrated post cyclone impacts on the chlorophyll biomass in the central and Western Bay of Bengal	CSIR- National Institute of Oceanography, Regional Centre, Vishakhapatnam, Andhra Pradesh
68.	Investigation on in situ high-temperature corrosion behaviour of Ni-base and Co-base super alloys and refractory alloys for strategic applications	Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu
69.	Lower Atmospheric Wind Profile (LAWP)- MST Radar signal processing using Variational Mode Decomposition (VMD) based Adaptive Structures: implementation using FPGA	Vellore Institute of Technology Chennai Campus, Chennai, Tamil Nadu
70.	Cultural Landscape Research: Characterizing and managing built heritage sites	National Institute of Advanced Studies (NIAS), IISc Campus, Bengaluru, Karnataka
71.	Prediction of ground-level particulate matter concentrations from Multi satellite Aerosol Optical Depth (AOD) over the Indian subcontinent	Banaras Hindu University, Varanasi, Uttar Pradesh
72.	Understanding the factors influencing the initiation and developments of mesoscale convective weather systems over southern east coast of India using three dimensional coupled numerical weather models and observation	National Institute of Technology Rourkela, Rourkela, Odisha

73.	Quantifying the Spatio-Temporal rhythm of vegetation growth, health and its vulnerability due to climate change in different forest ecosystem in North-Eastern India using time-series satellite data	Birla Institute of Technology (BIT) Mesra, Ranchi, Jharkhand
74.	Understanding the forming behaviour of C103 alloy in different treated conditions for rocket engine nozzle applications	National Institute of Technology Tiruchirappalli, Tiruchirappalli, Tamil Nadu
75.	Design and development of 14-bit 10 MSPS 50 mW SAR (Successive Approximation Register) ADC in 180nm CMOS technology	National Institute of Technology Tiruchirappalli, Tiruchirappalli, Tamil Nadu
76.	Thermal Management of Space Electronics using Multi-turn Pulsating Heat Pipes (PHP)	Jyothy Institute of Technology Bengaluru, Karnataka
77.	Health Monitoring and Fault Diagnosis of Turbo pumps of Liquid Rocket Engines (LREs) using Deep Learning Neural Networks	National Institute of Technology Tiruchirappalli Tiruchirappalli, Tamil Nadu
78.	Design, analysis and demonstration of the porous injector concept for throttling of liquid rocket engine	National Institute of Technology Karnataka Surathkal, Mangalore, Karnataka
79.	Assessment of various Oceanographic Parameters and development of regional bio-optical algorithms for primary production estimates around Eastern coast of Tamil Nadu	Dr. M G R Educational and Research Institute Maduravoyal, Chennai, Tamil Nadu
80.	Energy Efficient and Optimal Path Planning strategies for SWARM of UAVs in Real Time Localization using Deep Learning based Stereo Vision System	Vel Tech Rangarajan Dr. Segunthala R & D Institute of Science & Technology, Chennai, Tamil Nadu
81.	Understanding the nature of the extraterrestrial dust particle behavior during atmospheric entry	CSIR - National Institute of Oceanography, Dona Paula, Goa
82.	Lattice Boltzmann Method for Compressible Fluid Flows	Indian Institute of Technology Dharwad, Dharwad, Karnataka
83.	Reactionless Maneuvering and Visual Servoing for Space Flying Robot and Half-Humanoid	Indian Institute of Technology Jodhpur, Jodhpur, Rajasthan
84.	Dynamic studies for Half-humanoid and Space Flying Robot	Indian Institute of Technology Jodhpur, Jodhpur, Rajasthan
85.	Development of high sensitivity ZnO Nanostructures based gas sensing array for space applications	Indian Institute of Technology Indore, Simrol, Indore, Madhya Pradesh

86.	Sulfide based Solid Electrolytes for all Sodium Lithium Ion Batteries	SRM Institute of Science and Technology, Kattankulathur, Kancheepuram Dist. Tamil Nadu
87.	Satellite Network Simulator (SN) with ULPC and ACM features	Dhirubhai Ambani Institute of Information & Communication Technology (DAIICT), Gandhinagar, Gujarat
88.	Strain estimation in Central Seismic Gap using Numerical Modeling constrained by Geodetic Measurements	Indian Institute of Technology Hyderabad, Kandi, Sangareddy, Telangana
89.	Adaptive Beam Forming for Mitigation of Interference and Jamming at the Ground Terminal of Global Navigational Satellite Systems (GNSS)	Dhirubhai Ambani Institute of Information & Communication Technology (DAIICT), Gandhinagar, Gujarat
90.	SAR Polarimetric Image classification using Wishart Mixture model and convolution Neural Networks	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Gujarat
91.	Development of Automatic Land Cover Change Detection and Analysis System from high resolution remote sensing images	National Institute of Technology Karnataka Surathkal, Mangalore, Karnataka
92.	Development of Iridium Coating over Carbon-Carbon composites for space applications	CSIR- National Institute of Interdisciplinary Science and Technology, Thiruvananthapuram, Kerala
93.	Development of Multi-Component refractory alloy carbides for extreme operating environment by Spark Plasma Sintering	National Institute of Technology Tiruchirappalli, Tiruchirappalli, Tamil Nadu
94.	Study of X-ray Binaries and other Cosmic Sources using data from Astrosat Observations	University of Mumbai Mumbai, Maharashtra
95.	Aerodynamic characterization of Reusable Launch Vehicle at low speeds	Birla Institute of Technology Mesra, Ranchi, Jharkhand
96.	Synthesis and characterization of Boron Nitride nanostructures	Institute for Plasma Research, Gandhinagar, Gujarat
97.	Fabrication of Silicon based Nanocomposites for High Energy Density Li-Ion Anodes	Sathyabama Institute of Science and Technology, Chennai, TN

98.	Orbit parameter refinement using GNSS carrier phase data in post facto scenario for Interferometric SAR and PoI InSAR applications	Jadavpur University, Kolkata, West Bengal
99.	Investigation of high temperature oxidation behaviour of super alloys and stainless steel for strategic applications	Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu
100.	To develop a software for linear and non-linear static analysis of structures using applied element method	National Institute of Technology Calicut, Kozhikode, Kerala
101.	Lattice Boltzmann Method for Supersonic and Hypersonic flows	National Institute of Technology Rourkela, Rourkela, Odisha
102.	Modeling of Chlorophyll-a(Chl-a) Dynamics of the Eastern Arabian Sea: Biophysical coupling in the context of change in climate	Cochin University of Science & Technology, Kochi, Kerala
103.	Investigation of Active Aeroelastic Wing for Unmanned Aerial Vehicle	Government College of Technology, Coimbatore, Tamil Nadu
104.	Estimation and tracking of Subsurface Groundwater Discharge (SGD) along Coastal stretches of Andhra Pradesh and Tamil Nadu, based on understanding and Modeling of Coastal Aquifer Dynamics	PRIST Deemed University, Thanjavur, Tamil Nadu
105.	Development of porous Titania supported Lithium Hydroxide for efficient capture of carbon di oxide	Indian Institute of Science Education and Research, Thiruvananthapuram, Kerala
106.	Development and Testing of NavICSuit: Processing Software Tool for NavIC Receiver	Nirma University, Ahmedabad, Gujarat
107.	Development of ZrB2-SiC-HfC and ZrC-SiC-HfC superstrong materials by thermal plasma process for temperatures exceeding 2000^0C	CSIR-National Institute of Interdisciplinary Science and Technology(CSIR-NIIST) Thiruvananthapuram, Thiruvananthapuram Kerala
108.	Automatic detection of solar features such as sunsports, filaments and extraction of their attributes	Vellore Institute of Technology, Vellore, Tamil Nadu
109.	Design and development of fibre optic Narrow band pass filter at Infrared wavelength	Vellore Institute of Technology Vellore, Tamil Nadu

110.	Estimation of the thermal contact conductance of realistic spacecraft bolted joints	Indian Institute of Technology Palakkad, Palakkad, Kerala
111.	Effect of processing parameters on cryo impact properties of cast alloys	CSIR- National Metallurgical Laboratory, Jamshedpur, Jharkhand
112.	Film cooling for Ejector Diffuser System in High Altitude Testing Facility	Indian Institute of Technology Jodhpur, Karwar, Rajasthan
113.	Qualitative and quantitative classification of mixed bamboo forests using geospatial technology	V R Siddhartha Engineering College, Vijayawada, Andhra Pradesh
114.	Machine Learning/Artificial Intelligence (ML/AI) Hardware/Software framework for Vyomonoid	National Institute of Technology Tiruchirappalli, Tiruchirappalli, Tamil Nadu
115.	Design and development of X-band prime focal reflectarray antenna	Charotar University, Changa, Gujarat
116.	Development of Series Elastic Actuator and Control Unit	Indian Institute of Technology Gandhinagar, Gandhinagar, Gujarat
117.	Multiscale simulation of weld solidification cracking in Ni-based superalloys used in Aerospace applications	Indian Institute of Technology (ISM) Dhanbad, Dhanbad, Jharkhand
118.	Plant biomass dynamics, carbon sequestration and ecosystem services of wetlands of Barak valley, Assam	Assam University, Silchar, Assam
119.	Development of a Multigrid algorithm for unstructured grid finite volume CFD solver	Indian Institute of Technology Goa, Farmangudi, Ponda, Goa
120.	Development of C/C-SiC, C/C-ZrC and C/C-SiC-ZrC based composites through Reactive Melt Infiltration (RMI)	International Advanced Research Center for Powder Metallurgy and New Materials (ARCI), Hyderabad, Telangana
121.	Development of high efficacy solid state supercapacitors with high energy and power density based on hybrid ionic liquid and thermally reduced graphene	Amrita Vishwa Vidyapeetham Thiruvallur, Tamil Nadu
122.	Extraction of Buildings from Satellite Imagery of Urban Area through Transfer leaning of Deep Learning Networks	St. Joseph's College of Engineering, Chennai, Tamil Nadu

123.	Optimization of flux activated gas tungsten arc welding parameters for stainless steel AISI 304L to achieve maximum weld depth-to-width ratio and improved mechanical properties	Vellore Institute of Technology Vellore, TN
124.	Design and development of enhanced secured video communication system for video sensor networks	Sri Venkateswara College of Engineering, Sriperumbudur, Tamil Nadu
125.	Development of high temperature Fiber-Bragg Grating (FBG) strain sensors for static strain measurement upto 800^0 C using optimization of certain critical parameter before, during and post fabrication of FBGs"	Jyothy Institute of Technology, Bengaluru, Karnataka
126.	Copper coating on Epoxy-Carbon Composite for Radio Frequency Reflector Antennas	CSIR-National Institute of Interdisciplinary Science and Technology (NIIST) Thiruvananthapuram, Thriuvananthapuram, Kerala
127.	Retrieval of hydrological parameters and development of glacio-hydrological model in Chandra Basin including satellite and field observations	Indian Institute of Technology Indore, Indore, Madhya Pradesh
128.	Simulation studies of electronic/photonic band gap materials for microwave applications	Indian Institute of Technology Palakkad, Palakkad, Kerala
129.	Development of feature fusion based Multispectral/Hyperspectral Image classification model using deep learning	Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar, Odisha
130.	Development of packaging for cryo temperature sensing	Indian Institute of Technology Indore, Indore, Madhya Pradesh
131.	Design and development of Fabry Perot cavity based feed cluster	Nirma University, Ahmedabad, Gujarat
132.	Design and fabrication of inorganic electrochromic devices using layer engineering	Indian Institute of Technology Palakkad, Palakkad, Kerala
133.	Assimilation of Remote Sensing and Hydrological data for aquifer zonation vis-à-vis determining structural and Lithological control over Groundwater Quality and Quantity in Central-Southern Kachchh mainland, Western India	KSKV Kachchh University, Bhuj-Kachchh, Gujarat

134.	Development of LTCC Tapes and compatible Gold Pastes for Space Applications	CSIR- National Institute for Interdisciplinary Science and Technology (NIIST) Thiruvananthapuram, Thiruvananthapuram, Kerala
135.	Software tool development for assessing impact of process parameters on performance of thin film coating in precision inertial sensing elements	Indian Institute of Technology Gandhinagar, Gandhinagar, Gujarat
136.	Spatio-spectral deconvolution of Hyperspectral images	Indian Institute of Technology Indore, Indore, Madhya Pradesh
137.	Catalyst Development for Hydrogen Peroxide dissociation for monopropellant Thrusters	National Institute of Technology Warangal Warangal, Telangana
138.	Machinability studies and development of a stable manufacturing technique to XH67MBTHO nickel based super alloy for semi cryogenic engine applications	National Institute of Technology Calicut, Kozhikode, Kerala
139.	Technology Development of RF Power LDMOS devices	Indian Institute of Technology Gandhinagar Gandhinagar, Gujarat
140.	Development of a model for generation of high-resolution gridded population map	National Institute of Technology Calicut Kozhikode, Kerala
141.	Design of 8 BIT 1 GSPS Flash ADC	Indian Institute of Information Technology Guwahati, Bongora, Guwahati, Assam
142.	Study, design and development of electronic nose for fire detection system	PES University Bengaluru, Karnataka
143.	Image Processing of X-ray Radiography Exposures	Vellore Institute of Technology (VIT), Vellore, Tamil Nadu
144.	Multi-channel stackable input perfect reconstruction transmultiplexer for satellite communication	Jadavpur University Salt Lake City, Kolkata West Bengal
145.	A modular and physics based numerical framework for the inner heliosphere	Indian Institute of Technology Indore, Simrol, Indore, Madhya Pradesh

146.	Investigation of Solar Eruptions using Sub-photosphere Dynamics	National Institute of Technology Calicut Kozhikode, Kerala
147.	Development of compound semiconductors (III-V Nitride) based THz detectors for space applications	SASTRA Deemed University Thanjavur, Tamil Nadu
148.	Development of flexible heat pipe for space applications	Karunya Insitute of Technology & Sciences Coimbatore, Kerala
149.	Ultra-high sensitivity tunable laser-based spectroscopic gas detection system for the Human Spaceflight Programme	Indian Institute of Technology Gandhinagar, Gandhinagar, Gujarat
150.	Appraisal of lake water dynamics and security through high resolution satellite imageries	Graphic Era (Deemed to be University), Dehradun, Uttarakhand
151.	An empirical analysis on Deriving Test Cases from Natural Language text using MBT approach	Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar, Gujarat
152.	Thermo-chromic Variable Emittance Coating	National Institute of Technology Durgapur Durgapur, West Bengal
153.	Development of Microstructure - Property - Processing Correlations for nickel based superalloys	Indian Institute of Technology Indore, Simrol, Indore, Madhya Pradesh
154.	Modelling of Buried Channel MOSFET	Indian Institute of Science Education and Research (IISER), Bhopal, Madhya Pradesh
155.	Experimental Simulation of Lightning and Development of Lightning Detection Antenna for Future Planetary Missions	Charotar University of Science and Technology (CHARUSAT) CHARUSAT Campus Changa, Gujarat
156.	The Design and Analysis of a Silicon particle detector Array using High Voltage CMOS Process for Space Applications	Indian Institute of Technology Mandi, Kamand, Mandi, Himachal Pradesh
157.	Design and development of a lenticular shaped deployable composition boom	SASTRA Deemed to be University Thanjavur, Tamil Nadu

158.	Assessment of Flouride Contamination in ground water in Punjab using GIS and machine learning techniques	Lovely Professional University, Jalandhar - Delhi GT Road, Punjab
159.	Developing Efficient Local Scale Impact Evaluation tools using Geospatial System to Assess National Development Mission Outcomes and SDG Goals	V R Siddhartha Engineering College, Kannuru, Vijayawada, Andhra Pradesh
160.	Updating of very Large Scale Urban GIS maps with latest very high resolution satellite data using deep learning techniques	V R Siddhartha Engineering College, Kannuru, Vijayawada, Andhra Pradesh
161.	Use of Artificial Intelligence (AI)/Expert Systems (ES)/Machine Learning (ML) in Mission Operations	MS Ramaiah Institute of Technology Bengaluru, Karnataka
162.	Development of Deep Learning Framework for Inventory of Horticultural Plantations using High Resolution satellite images	REVA University Bengaluru, Karnataka
163.	Design, Modeling and Analysis of tilt mechanism for 7.5m diameter antenna for its stability during the track mode of satellite	M V S R Engineering College Nadergul, Hyderabad, Telangana
164.	To study potential protocols for satellite based secure quantum communication under ambient atmospheric conditions	Indian Institute of Technology Jodhpur, Jodhpur, Rajasthan
165.	Solar Flares: Physics and forecasting for better understanding of Space Weather	Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, Maharashtra
166.	Mathematical Modelling and Numerical Simulations for Remote Sensing by Global Navigation Satellite System - Reflectometry (GNSS-R) Technique	VIT Bhopal University Kothrikalan, Sehore Sehore, Madhya Pradesh
167.	Analysis of throat film cooling for Semicryogenic Thrust chamber	Amrita Vishwa Vidyapeetham Coimbatore, Tamil Nadu
168.	Abiotic synthesis of methane at the recess of martian crust and prospect of microbial life in the Noachian Mars- Constraints from experimental and meteorite studies	Indian Institute of Technology (ISM) Dhanbad, Dhanbad, Jharkhand
169.	RES-NESAC-2022-001: Assessment of edaphic factors to combat Citrus Decline in Assam using Geospatial technology	Assam Agricultural University Jorhat, Assam

170.	RES-NESAC-2022-002- Rainfall- Induced Landslide Susceptability Evaluation by Accounting the Influence of Vegetation	National Institute of Technology Arunachal Pradesh, Jote, Papumpare, Arunchal Pradesh
171.	RES-VSSC-2022-004: Insensitive high nitrogen binders for energetic applications	Indian Institute of Technology Goa, Farmagudi, Ponda, Goa
172.	RES-ISTRAC-2022-002: Multisensor data fusion and Orbit determination with nonlinear estimation for space debris RADAR	Indraprastha Institute of Information Technology Okhla Phase - III Delhi
173.	RES-MCF-2022-004: DVC-S2/S2X Satellite Modem	Indian Institute of Technology Dharwad, Dharwad, Karnataka
174.	RES-IISU-2022-002: High-Fidelity Sinusoidal Synthesizer for HRG Whole Angle Tracking	National Institute of Technology Calicut Kozhikode, Kerala
175.	RES-IISU-2022-007: Denoising Algorithm for Noise reduction in MEMS Sensors	National Engineering College, Kovilpatti, Tamil Nadu
176.	RES-IPRC-2022-003: Development of molten regolith electrolysis process for oxygen production from simulated lunar soil	CSIR- National Institute for Interdisciplinary Science and Technology (CSIR-NIIST) Pappanamcode, Thiruvananthapuram, Kerala
177.	RES-IISU-2022-013: Formal Analysis of Redundancy Management Logic for Navigation Processsor used in Man-rated Launch Vehicle	Indian Institute of Technology Palakkad, Palakkad, Kerala
178.	RES-IPRC-2022-008: Development of advanced thermal barrier coatings for high thrust rocket engines and components	CSIR-Central Electrochemical Research Institute Karaikkudi, Tamil Nadu
179.	RES-LPSC-2022-005: Thermal imaging of EB welds	Koneru Lakshmaiah Education Foundation Vaddeswaram, Guntur, Andhra Pradesh
180.	RES-IIRS-2022-006: Advanced methods and algorithms for automatic informatioin extraction for (online/offline) processing and analysis of images/data from various multi-source data	Indian Institute of Information Technology Sricity Chittoor, Andhra Pradesh
181.	RES-ISTRAC-2022-005: Investigation of Doppler Keystone Transform (DKT) for Range Migration	Amity University Sector-125, Noida, Uttar Pradesh

	Correction (RMC) of a moving space debris target at LEO Orbit	
182.	RES-IPRC-2022-005: Development of self-healing refractory and investigation on the mechanism	CSIR- National Institute for Interdisciplinary Science and Technology Pappanamcode, Thiruvananthapuram, Kerala
183.	RES-SAC-2022-005: Techniques for coexistence & integration of communication satellites and terrestrial IMT systems	Indian Institute of Engineering Science and Technology, Shibpur, West Bengal
184.	RES-LPSC-2022-003: Generation of TTT and CCT diagrams for 3 nickel based superalloys (XH67, XH55, XH43) for application in liquid engines	Sathyabama Institute of Science & Technology Chennai, Tamil Nadu
185.	RES-IISU-2022-004: Negative Stiffness Mechanism based Low Frequency Passive Vibration Isolation Platform	Amrita Vishwa Vidyapeetham Coimbatore, Tamil Nadu
186.	RES-IISU-2022-006: Design and development of Mixed Signal SoC for Sensor Application in SCL 180nm	National Institute of Technology Rourkela Rourkela, Odisha
187.	RES-IPRC-2022-001: Automation of engine and stage integration/testing activities in assembly and test facilites area	National Institute of Technology Rourkela Rourkela, Odisha
188.	RES-ISTRAC-2022-011: Distributed Beamforming and Beampattern Design using Drone Swarm Network	Indian Institute of Technology Ropar, Birla Farm, Ropar, Punjab
189.	RES-IIRS-2022-002: Development of algorithm for high resolution vegetation water content estimation using optical/IR and microwave satellite datasets over agricultural lands	Banaras Hindu University Varanasi, Uttar Pradesh
190.	RES-SAC-2022-004: Development of techniques for ground-based source localization using sparse array on board LEO satellite	Indian Institute of Technology Gandhinagar, Gandhinagar, Gujarat
191.	RES-VSSC-2022-017: Development of durable and smart catalyst layer structures for low temperature PEM fuel cells	Indian Institute of Technology Ropar, Birla Farm, Ropar, Punjab
192.	RES-VSSC-2022-016: Development of Porous Media based Condensing Heat Exchange for Space Systems	Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram

		Melakottaiyur, Chennai, Tamil Nadu
193.	RES-VSSC-2022-002: Effect of blockage and wall correction methodology on scaled models at subsonic Mach numbers	SRM Institute of Science and Technology Kattankulathur, Tamil Nadu
194.	RES-LPSC-2022-006: Development of "DMAZ" fuel that is hypergolic with hydrogen peroxide	Sathyabama Institute of Science and Technology Chennai, Tamil Nadu
195.	RES-SAC-2022-001: PIC based Tx and Rx with multiplexed optical channels employing polarization modulation and homodyne/heterodyne detection	Visvesvaraya National Institute of Technology Nagpur, Maharashtra
196.	RES-IIRS-2022-003: Use of multi parametric Synthetic Aperture Radar (SAR) &/or SAR Polarimetry, SAR Tomography & SAR Interferometry in Forestry & Ecology with special emphasis on FORESTRY: Forest species discrimination in mixed forest scenario & forest biophysical parameters retrieval	Indian Institute of Technology Indore, Simrol, Indore, Madhya Pradesh
197.	RES-VSSC-2022-010: Spinel or Garnet ferrite thin films for satellite applications	Indian Institute of Technology Ropar Rupnagar, Ropar, Punjab
198.	RES-MCF-2022-002: SDR (Software Defined Radio) based Modem for Spacecraft Telemetry reception, Telecommanding and Ranging Operations	Amrita Vishwa Vidyapeetham Coimbatore, Tamil Nadu
199.	RES-MCF-2022-001: FFT based Spectrum Analyser	Vellore Institute of Technology Katpadi Vellore, Tamil Nadu
200.	RES-ISTRAC-2022-008: Design of Micro cryogenic coolers for phased array receiver	National Institute of Technology Rourkela Rourkela, Odisha
201.	RES-SAC-2022-002: Study and realization of low Vpi Mach-Zender for OOK/BPSK/QPSK modulation upto 20GHz	Indian Institute of Technology Goa, GEC Campus, Farmagudi, Ponda, Goa
202.	RES-IIRS-2022-001: AI (Artificial Intelligence and Remote Sensing Applications in Soil & Crop Management	VelTech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology Chennai, Tamil Nadu

203.	RES-IISU-2022-002: Realization of plasma gun for atmospheric plasma polishing	National Institute of Technology Calicut Kozhikode, Kerala
204.	RES-ISTRAC-2022-006: Development of software package for conformal array analysis	SRM University AP Mangalagiri, Andhra Pradesh
205.	RES-ISTRAC-2022-003: MIMO based Signal processing algorithms for Space Debris tracking radar	SASTRA University Thirumalaisamudram Thanjavur, Tamil Nadu
206.	RES-SAC-2022-007: Development of Miniaturized Multi-Constellation Weak MBOC signal Real-Time GNSS Receiver	Birla Institute of Technology and Science Pilani Goa Campus, Zuarinagar, Goa
207.	RES-ISTRAC-2022-001: Development of controlled Radiation pattern antenna for interference and anti-jamming of NavIC satellite system	Nitte Meenakshi Institute of Technology, Bengaluru
208.	RES-IPRC-2022;006: Combustion Dynamics of Rocket Engine and its active control using high energy P	Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat, Gujarat
209.	RES-LPSC-2022-008: Geometry Independent Ultrasonics NDE	Presidency University, Bengaluru, Karnataka
210.	RES-VSSC-2022-008: Predicting magnetic properties of critical element free permanent magnets for space applications through multi-scale modeling approach	Indian Institute of Technology Hyderabad Kandi, Sangareddy, Telangana