

**Ongoing Sponsored Research Projects - as on 31st March 2021**

<b>Sno</b>	<b>Project Title</b>	<b>Principal Investigator</b>	<b>Department / Centre</b>
1	Theoretical Prediction of Minimum Low Oxygen Flammability Limit of Polymers in Microgravity	Dr. Amit Kumar	Aerospace Engineering
2	Experimental Study of Combustion in Space Environment	Dr. Amit Kumar	Aerospace Engineering
3	Comprehensive Experimental and Simulation Study on Wildfire of BRICS Countries: Fire Occurrence, Spread and Suppression	Dr. Amit Kumar	Aerospace Engineering
4	Conceptual Design of VTOL Platforms for Next-Generation Rotorcraft	Dr. Bharath Govindarajan M	Aerospace Engineering
5	Effect of Gust on Aerodynamic Interference of Coaxial Rotors: Numerical and Experimental Studies	Dr. Bharath Govindarajan M	Aerospace Engineering
6	Centre of Excellence in Non-Intrusive Diagnostics	Dr. Chakravarthy S R	Aerospace Engineering
7	Next generation combustor technology development for small aircraft/helicopter engines	Dr. Chakravarthy S R	Aerospace Engineering
8	Development of Nano-Boron Slurry Fuel, its Characterization, and Atomization with a Co-axial Air-blast Atomizer	Dr. Chakravarthy S R	Aerospace Engineering
9	High temperature erosion and corrosion of combustor components due to combustion of metallized slurry fuels	Dr. Chakravarthy S R	Aerospace Engineering
10	Development and optimization of swirl-venturi lean direct injection gas turbine combustor	Dr. Chakravarthy S R	Aerospace Engineering
11	Solid propellant combustion mechanisms and modelling	Dr. Chakravarthy S R	Aerospace Engineering
12	Common Computational Hardware and Software for all CoPT Projects at IITM	Dr. Chakravarthy S R	Aerospace Engineering
13	Compact, All-weather Operability Combustors for Small Gas Turbine Engines/UAV Application	Dr. Chakravarthy S R	Aerospace Engineering
14	Resonant Triad Interactions in Stratified Shear Flows	Dr. Manikandan M S	Aerospace Engineering
15	Internal Wave Generation and Propagation in the Arctic	Dr. Manikandan M S	Aerospace Engineering
16	A Lagrangian Framework to Define the Spatio-temporal Requirements of Measurement of Ocean Surface Currents from Space-Borne Sensors	Dr. Manikandan M S	Aerospace Engineering
17	Studies on improved low temperature strain capability in advanced energetic solid propellants	Dr. Murthy H S N	Aerospace Engineering
18	Crack Growth Studies in Multi-angular Composite Specimens under Fatigue Loading	Dr. Murthy H S N	Aerospace Engineering
19	Sensors for steam quality, pulverised coal loading, in-belt coal and flame stability	Dr. Muruganandam T M	Aerospace Engineering
20	Comprehensive Soot Model Development for Next-generation, Environment-friendly Gas Turbine Combustor Design	Dr. Muruganandam T M	Aerospace Engineering

21	Two Phase High Speed Flows in Ground and Space Applications	Dr. Muruganandam T M	Aerospace Engineering
22	Aerospace Combustion Laboratory	Dr. Muruganandam T M	Aerospace Engineering
23	Design and development of morphing wing with hingeless control surface	Dr. Nagendra Gopal K V	Aerospace Engineering
24	Development of a back pack rocket motor for a solidier	Dr. Ramakrishna P A	Aerospace Engineering
25	Development of paraffin based Gas Generator System for Hot Flow Scale Model Tests Simulating Clustered Semi Cryo Engines	Dr. Ramakrishna P A	Aerospace Engineering
26	Development of Extended Range Ammunition using Ramjet Technology with Precision Guidance in Artillery Shells	Dr. Ramakrishna P A	Aerospace Engineering
27	Development of Solid Propellant based low temperature gas generator for inflatable aerodynamic decelerator	Dr. Ramakrishna P A	Aerospace Engineering
28	Development of Rotocraft UAV for Operation in Martian Atmosphere	Dr. Ranjith Mohan	Aerospace Engineering
29	Automated Landing of Rotorcraft on moving platform	Dr. Ranjith Mohan	Aerospace Engineering
30	Feasibility studies and preliminary aerodynamic design of autorotation based venus descent system	Dr. Ranjith Mohan	Aerospace Engineering
31	Rotorcraft for Scout Operation at High Altitudes and Low Air Density Region	Dr. Ranjith Mohan	Aerospace Engineering
32	Variable camber morphing wing	Dr. Sameen A	Aerospace Engineering
33	Numerical and Experimental Investigation of Flow-separation Control Using Passive Mechanisms in High-speed Flows	Dr. Santanu Ghosh	Aerospace Engineering
34	Nonlinear Dynamics and AeroElasticity of Span Morphing UAV Wing	Dr. Senthil Murugan M	Aerospace Engineering
35	Development of a Fast Algorithm for Calculating the Micro-mechanical Fields in Dislocation Dynamics Simulations	Dr. Sivasambu Mahesh	Aerospace Engineering
36	Fund for Improvement of S&T Infrastructure - Three- Dimensional Stratified Flows Facility -FIST Program -2017	Dr. Sriram P	Aerospace Engineering
37	Investigations on the Unsteady Dynamics of 3-Dimensional Shock Induced Separation	Dr. Sriram Rengarajan	Aerospace Engineering
38	J C Bose Fellowship	Dr. Sujith R I	Aerospace Engineering
39	Efficient High-Lift Turbine Blade Designs Exploiting the Surface Roughness Experimental and Numerical Campaign	Dr. Vadlamani Nagabhusana Rao	Aerospace Engineering
40	Toughened concrete for the use in structures of national importance against impact-SERB-TARE Scheme	Dr. Velmurugan R	Aerospace Engineering
41	High Strain Rate Studies of Additively Manufactured Aerospace Components	Dr. Velmurugan R	Aerospace Engineering
42	VAJRA Visiting Faculty - Dr.Ranjith Pathegama Gamage	Dr. Abhijit Chaudhuri	Applied Mechanics

43	Confined Living Fluids - Bacterial Motility on Surfaces	Dr. Anubhab Roy	Applied Mechanics
44	Mathematical modelling of aerosolized transmission of pathogens via turbulent expiratory events	Dr. Anubhab Roy	Applied Mechanics
45	Design and Development of Magnetostriction based Magneto-Electric(ME) Sensor for Landmine Detection	Dr. Arockiarajan A	Applied Mechanics
46	Fabrication of Collagen and Collagen Peptide Based Floating Beads with Doxycycline, Proton Pump Inhibitor and Antioxidant: A Novel Synergistic Approach to Treat Peptic Ulcer	Dr. Arockiarajan A	Applied Mechanics
47	Fatigue Life Characterization of Hybrid Composites Under Various Processing Conditions	Dr. Arockiarajan A	Applied Mechanics
48	Next Generation Heat Exchangers Design Using Additive Manufacturing and Shape Optimization	Dr. Arul Prakash K	Applied Mechanics
49	VAJRA Visiting Faculty - Dr.Perumal Nithiarasu	Dr. Arul Prakash K	Applied Mechanics
50	Estimation of Thermal Load Due to Mixing in 10T Vertical Mixer	Dr. Arul Prakash K	Applied Mechanics
51	Development of Non-Invasive and Affordable Liver-Stiffness Imaging Device & Clinical Evaluation of its Utility for Metabolic Disorders	Dr. Arun Kumar Thittai	Applied Mechanics
52	Compressed Sensing - Based Affordable Ultrasound Scanner Platform	Dr. Arun Kumar Thittai	Applied Mechanics
53	Fundamental limitations for unordered signal sensing in the presence of noise	Dr. Babji Srinivasan	Applied Mechanics
54	Development of Novel Low Cost Heat Spreader for High-Power Monolithic Microwave Integrated Circuit (MMIC) Amplifiers	Dr. Baburaj A P	Applied Mechanics
55	INAE Distinguished Professors/Technologists	Dr. Chellapandi P	Applied Mechanics
56	Mechanics of Coated Microbubbles for Targeted Drug Delivery	Dr. Ganesh Tamadapu	Applied Mechanics
57	Combined Experimental and Modelling Study of Stress Corrosion Cracking in Ferritic Steels	Dr. Ilaksh Adlakha	Applied Mechanics
58	Airblast injector development for next gen engine	Dr. Mahesh Panchagnula	Applied Mechanics
59	Studies on a model alveolar duct with expanding/contracting walls	Dr. Mahesh Panchagnula	Applied Mechanics
60	Immersive Virtual Reality Based Nursing Skills Training SimulationP	Dr. Manivannan M	Applied Mechanics
61	1 Lab - 1 School: Taking STEM to Rural Schools in India	Dr. Pijush Ghosh	Applied Mechanics
62	Developing Interface between Clay and Concrete Applying Polymers	Dr. Pijush Ghosh	Applied Mechanics
63	Development of HPC tools for CFD-based patient specific management of Cerebral Aneurysms	Dr. Prasad Patnaik B S V	Applied Mechanics
64	Development of a Lossy Mode Resonance based Fiber Optic Biosensor Array Platform for Ochratoxin-A Detection in Foods	Dr. Raghavendra Sai V V	Applied Mechanics

65	A Rapid Point-of-care Fiber-optic Biosensor (P-FAB) Device for Early Detection of COVID-19 using Saliva	Dr. Raghavendra Sai V V	Applied Mechanics
66	Development of a Point-of-care Fiber-optic Biosensor (P-FAB) Device for Rapid Detection of COVID-19	Dr. Raghavendra Sai V V	Applied Mechanics
67	Demonstration of Multi-WAP results leading to novel, validated multiplexed, label-free fiberoptic biosensor array system for waterborne pathogen detection (DEMO-Multi-WAP) – Phase 2	Dr. Raghavendra Sai V V	Applied Mechanics
68	Design and Development of a Multi-Array Sensor for Assessment of Muscle Fatigue and Activity Status for Rehabilitation	Dr. Ramakrishnan S	Applied Mechanics
69	Naval Fit (NF)	Dr. Ramakrishnan S	Applied Mechanics
70	Development of Assessment Protocols for Aspiring Athletes using Surface Electromyography Signals	Dr. Ramakrishnan S	Applied Mechanics
71	Investigation of Nanoscale Heat Transport at Solid-liquid Interfaces for Engineering Tailored Nanostructures in Thermal Interface Systems	Dr. Sarith P Sathian	Applied Mechanics
72	Evaluation of Steam Oxidation Behavior of Materials under Ultra Super Critical Steam Conditions using a Purpose Built Test Rig	Dr. Satyanarayanan Seshadri	Applied Mechanics
73	Development of Wankel Expander/ Compressor Based Heat Pump System for High Temperature Applications	Dr. Satyanarayanan Seshadri	Applied Mechanics
74	Development of Optical Stack Emission Sensors for Handling Flue Gases Down Stream of FGD	Dr. Satyanarayanan Seshadri	Applied Mechanics
75	Aerosol Transport in the Deep Lung to Enable Personalized Pulmonary Drug Delivery (P2D2)	Dr. Satyanarayanan Seshadri	Applied Mechanics
76	Nirmaan - Enabling Entrepreneurship	Dr. Satyanarayanan Seshadri	Applied Mechanics
77	Field Deployment and Scale-up of Volumetrically Controlled Wankel Steam Expander for Use with Low-Pressure Solar and Process Steam	Dr. Satyanarayanan Seshadri	Applied Mechanics
78	Bladeless Smart Wind Energy Harvesters	Dr. Sayan Gupta	Applied Mechanics
79	Modeling and analysis of mistuned rotor blade systems	Dr. Shaikh Faruque Ali	Applied Mechanics
80	Development of Novel SMA Bearing Supports and Retrofit for Enhanced Performance and Durability of Rotating Machinery	Dr. Sivakumar M S	Applied Mechanics
81	Non-invasive Transdermal Collagen and Perfusion Sensor for Cosmetic and Diagnostic Applications	Dr. Sujatha N	Applied Mechanics
82	An Automated Digital Staining Machine for Immediate Detection of Cancerous Cells and its Extent for usage during Perioperative Tumour Removal	Dr. Sujatha N	Applied Mechanics
83	Development of Smart Nano-kit for Rapid, Automated and Ultra-sensitive Detection of Pesticide Traces in Agricultural Samples	Dr. Sujatha N	Applied Mechanics
84	Improving in-vivo Reliability of Reabsorbable Magnesium Implant Materials using Biopolymer and Graphene Oxide Nanosheets	Dr. Sujatha N	Applied Mechanics
85	Transition to Turbulence in Rough Couette Flows	Dr. Vagesh D Narasimhamurthy	Applied Mechanics
86	Role of Hand Dominance and Movement Observation in Intramanual Transfer of Motor Learning	Dr. Varadhan S K M	Applied Mechanics

87	Speech Assistive Gloves for Post Traumatic Care of People with Compromised Ability to Vocally Communicate	Dr. Varadhan S K M	Applied Mechanics
88	Infrastructure for investigation of multiple-scales in continuum systems - FIST	Dr. Vengadesan S	Applied Mechanics
89	Numerical Study of Performance of Inducer and Pump used in Cryogenic Engines under Cavitating and Non-cavitating Conditions	Dr. Vengadesan S	Applied Mechanics
90	A Novel CFD-DEM Approach to Model Particle Scale Heat Transfer	Dr. Vengadesan S	Applied Mechanics
91	Exploring the role of LRRC8B Protein in Cellular Calcium Signaling	Dr. Amal Kanti	Biotechnology
92	Understanding the Origins of Dynamic Allostery through a Structural Perturbation Approach	Dr. Athi Narayanan N	Biotechnology
93	Understanding the Design Principles of a Protein Nanosensor to Combat Multidrug Resistant Enterobacteriaceae	Dr. Athi Narayanan N	Biotechnology
94	Beyond Sequence Approximations in Ising-Like Models of Protein Folding: The Block-Matrix Method	Dr. Athi Narayanan N	Biotechnology
95	Dissecting the Evolutionary Tug-of-War: Sequence Patterns and Interaction Networks Governing the Folding-function Continuum	Dr. Athi Narayanan N	Biotechnology
96	Understanding the Functional Dynamics and Drug Efflux Mechanism of ABC transporters	Dr. Athi Narayanan N	Biotechnology
97	Altering Meiotic Recombination Rates with Phytohormones: A study in Arabidopsis	Dr. Baskar R	Biotechnology
98	Exploiting the Circadian Status of Arabidopsis Thaliana to Improve its Transformation Efficiency	Dr. Baskar R	Biotechnology
99	A Study on Pollen Competition in Arabidopsis Hybrids	Dr. Baskar R	Biotechnology
100	Detection of Cancer Markers Using Metal Oxide Nanotubes Immobilized with Conducting Polymers by Photoelectrochemical Biosensing - Women Scientist Scheme -A	Dr. Chandra TS	Biotechnology
101	Nanomaterials Based Active and Intelligent Packaging of Selected Baked, Fermented and Fried Foods	Dr. Chandra TS	Biotechnology
102	Structure-function Relationship of APJ Receptor - binding mode of Cognate Ligand and towards Characterizing the Ligand Binding Site, Elucidation of Signaling Pathways and Drug Discovery	Dr. Gopala Krishna A	Biotechnology
103	Structure-Function Relationship of Phosphate Solubilizing Glucose Dehydrogenase from Novel Pseudomonas SP.	Dr. Gopala Krishna A	Biotechnology
104	LIGFUEL : Depolymerization of Lignin and Bioconversion of Lignin-derived monomers to biofuels	Dr. Guhan Jayaraman	Biotechnology
105	Early Translation Accelerator- Industrial Biotechnology (ETA-IB)	Dr. Guhan Jayaraman	Biotechnology
106	Bioprocess Development for Production of Biopesticide Spinosyn-A in Streptomyces Parvulus	Dr. Guhan Jayaraman	Biotechnology
107	Downstream Process Development for the Bacteriophage Cocktail Processing Lytic Activity Against Vibrios Causing Vibriosis in Shrimp Hatcheries	Dr. Guhan Jayaraman	Biotechnology
108	Development of Synthetic Biology Tools and Bioprocess Strategies for Production of Hyaluronic Acid with Controlled Molecular Weight	Dr. Guhan Jayaraman	Biotechnology

109	Strain Construction and Process Development for Production and Purification of Recombinant Proline Rich Protein for Theranostic Usage in Dry Eye Syndrome	Dr. Guhan Jayaraman	Biotechnology
110	Development of Improved Process for Production of 3-Hydroxypropionic Acid from Crude Glycerol and Lignocellulosic Biomass Derived Glucose	Dr. Guhan Jayaraman	Biotechnology
111	Metabolic Engineering Approaches for Hyaluronic Acid Production in Lactococcus Lactis	Dr. Guhan Jayaraman	Biotechnology
112	Determining Role of Specialised Ribosomes in Yeast in Discriminating Translating Pools of Transcripts in a Stress-dependent Manner and its Effect on Phenotypic Diversity and Adaptation	Dr. Himanshu Sinha	Biotechnology
113	The Genomic and Evolutionary Landscape of Azole Resistance in Budding Yeast	Dr. Himanshu Sinha	Biotechnology
114	INCENTIVE: Indo-European Consortium for Next Generation Influenza Vaccine Innovation	Dr. Himanshu Sinha	Biotechnology
115	GenomeIndia: Cataloguing the Genetic Variation in Indians	Dr. Himanshu Sinha	Biotechnology
116	Preterm Birth Risk in Pregnant women and Prediction using Machine Learning Models	Dr. Himanshu Sinha	Biotechnology
117	A computational pipeline for identifying the context of key mutations in cancer genomes	Dr. Karthik Raman	Biotechnology
118	The Initiative for Biological Systems Engineering (IBSE) at IIT-Madras	Dr. Karthik Raman	Biotechnology
119	Understanding microbial interactions in microbiomes through metabolic modelling	Dr. Karthik Raman	Biotechnology
120	Restoration of P53 Status in Triple Negative Breast Cancer Using P53 Reactivators Loaded EGFR Targeting Therapeutic Nanoparticles	Dr. Karunakaran D	Biotechnology
121	To Study the Mir-34 Mediated Signalling Pathways Involved in Radio-Modulation of Cervical Cancer Cells	Dr. Karunakaran D	Biotechnology
122	Identification of Anti-atherosclerotic constituents Presents in Gentianaceae Plants	Dr. Madhulika Dixit	Biotechnology
123	Angiogenic Reprogramming of Circulating Mononuclear Cells by Mechanical Shear	Dr. Madhulika Dixit	Biotechnology
124	Effect of Insulin Resistance on Angiogenic Ability of Circulating Leukocytes	Dr. Madhulika Dixit	Biotechnology
125	Identification and Characterization of Non-enzymatic RAS Effector, RASSF7 as a Potential Transcription Factor	Dr. Mahalingam S	Biotechnology
126	Enzyme mediated bioremediation of radionuclides and heavy metals from effluents employing engineered alkaline phosphatase(s)	Dr. Manoj N	Biotechnology
127	Predictive Modeling Of Nucleic Acid Recognition Dynamics And Structured Complex Formation By Disordered Proteins	Dr. Michael Gromiha M	Biotechnology
128	Development of computational tools for analysis and prediction of disease-causing mutations	Dr. Michael Gromiha M	Biotechnology
129	Elucidation of Mechanism of Drug Resistance Associated with Breast Cancer and Ovarian Cancer through Network Biology Approach	Dr. Michael Gromiha M	Biotechnology
130	Adapting the standard SIR model for COVID-19 and effects of climate and lockdowns on infectious spread of SARS-CoV-2	Dr. Michael Gromiha M	Biotechnology

131	Structure Based Drug Design And Mechanistic Studies For COVID-19	Dr. Michael Gromiha M	Biotechnology
132	Integrated Approach for Understanding the Binding Affinity of Protein-nucleic Acid Complexes: Development of Database, Tools and Applications to Diseases	Dr. Michael Gromiha M	Biotechnology
133	Identification of Therapeutic Targets for Glioblastoma by Single-Cell RNA-Seq Analysis	Dr. Michael Gromiha M	Biotechnology
134	B-glucan Based Micro Particles as an Activator of Innate Immunity and Small Peptide Carrier	Dr. Mukesh Doble	Biotechnology
135	Inspire Faculty Award to Dr. Ninitha Margret Julfiya A J	Dr. Ninitha A J	Biotechnology
136	Exploring the potential role of poly (ADP-ribose) polymerase (PARP) 6 in the development of hypertension induced cardiomyopathy.	Dr. Ninitha A J	Biotechnology
137	Rational Designing, Synthesis , Structural and Functional Analysis of Novel Anti-hypertensive Peptides	Dr. Nitish R Mahapatra	Biotechnology
138	Regulation of Mitochondrial Transcription Factors and Mitochondrial Biogenesis in Essential Hypertension	Dr. Nitish R Mahapatra	Biotechnology
139	Validation Of The Effects Of Functional Genetic Variations In Chormogranin A Locus	Dr. Nitish R Mahapatra	Biotechnology
140	Molecular and genetic bases of cardiovascular diseases: key roles for chromogranin A	Dr. Nitish R Mahapatra	Biotechnology
141	Regulatory Influence of Renin-Angiotensin-Aldosterone System on Renal Expression of Renalase	Dr. Nitish R Mahapatra	Biotechnology
142	Transcriptional and Post-transcriptional Regulation of Mitochondrial Antioxidant, Peroxiredoxin-3 in Diabetic Cardiomyopathy	Dr. Nitish R Mahapatra	Biotechnology
143	Solution to the Fully Competitive Michaelis-Menten Enzyme Kinetic Rate Equations	Dr. Rajamanickam Murugan	Biotechnology
144	Unraveling the Design Principles and the Roles of Negative Auto Regulatory and Dual Feedback Motifs in the Transcription Factor Networks	Dr. Rajamanickam Murugan	Biotechnology
145	Development and characterization of second generation chimeric antigen receptor T-Cell tagged with riboflavin photo-activation to specifically target adherent cancers, using patient derived HSCs maintained under microgravity	Dr. Rama Shanker Verma	Biotechnology
146	In Vivo Osteogenic and Angiogenic Repair Mechanisms Influenced by Mesenchymal Stem Cells using Cell Sheet based Tissue Engineering	Dr. Rama Shanker Verma	Biotechnology
147	Studies on a Novel Nanotechnology based Stem Cell Therapy for the Treatment of Alzheimer's Disease	Dr. Rama Shanker Verma	Biotechnology
148	Lipid Transfer Mechanism of Cholesteryl Ester Transfer Protein: Role of Triglycerides	Dr. Sanjib Senapati	Biotechnology
149	Can Extended H-bonding Network due to Protic Ionic Liquids Facilitate the Growth and Stability of Discrete Water Domains in Hydrophobic Environment?	Dr. Sanjib Senapati	Biotechnology
150	Characterization of Effect of Sox5 Transcription Factor on the Expression of hPLSCR1, hPLSCR2 and hPLSCR4 Human Scramblase Genes	Dr. Sathyanarayana N Gummadi	Biotechnology
151	Production and Application of Microbial Mutanase for Prevention and Reduction of Dental Plaques (WOS-A)	Dr. Sathyanarayana N Gummadi	Biotechnology
152	Molecular Cloning, Biochemical Characterization and Exploitation of Arabitol Dehydrogenase from Debaryomyces Nepalensis	Dr. Sathyanarayana N Gummadi	Biotechnology

153	Bioprocess Strategies to Enhance Xylitol Production from Lignocellulosic Biomass	Dr. Sathyanarayana N Gummadi	Biotechnology
154	Bio-Mediated Biocide Photocatalytic Nanofibers- An Approach to Enhance Activity of Fiber in Water Treatment	Dr. Sathyanarayana N Gummadi	Biotechnology
155	Three-dimensional Tissue-engineered Platform for Investigation of Obesity-induced Inflammation, Insulin Resistance and Breast Cancer	Dr. Shantanu Pradhan	Biotechnology
156	Tissue-Engineered Model of Endothelial Plasticity and Breast Cancer Progression	Dr. Shantanu Pradhan	Biotechnology
157	A Comprehensive Framework for Treatment of Stroke of Upper Extremity by Combining Computational Modeling, Movement Behavior and Gaming	Dr. Srinivasa Chakravarthy V	Biotechnology
158	Sequential Motor Skills: A Dual System View	Dr. Srinivasa Chakravarthy V	Biotechnology
159	Identification of Genes that Regulate Differentiation of Germ Cells in Caenorhabditis Elegans	Dr. Subramaniam K	Biotechnology
160	Regulation of Proteasome Activity during Meiotic Entry in Caenorhabditis Elegans	Dr. Subramaniam K	Biotechnology
161	Decoding the genetic program that regulates stress-induced quiescence in C. elegans germline stem cells	Dr. Subramaniam K	Biotechnology
162	Shear Stress Effects on Metastasizing Cancer Cells - toward better Cancer Therapies	Dr. Suraishkumar G K	Biotechnology
163	Development of a POC device to detect high risk HPV in cervical cancer patients and co-relation with the protein markers - Women Scientist	Dr. Suresh Kumar Rayala	Biotechnology
164	National Bioscience Award for Career Development 2017/2018	Dr. Suresh Kumar Rayala	Biotechnology
165	Synthesis and Biological Evaluation of Dysideanone and its Synthetic Analogs for the Development of Potent and Selective Anti-Oral-Cancer Agents	Dr. Suresh Kumar Rayala	Biotechnology
166	Exploring CRISPR-Cas9 Technology to Reprogram Cellular Metabolic Pathways in Disease Models	Dr. Suresh Kumar Rayala	Biotechnology
167	Re-purposing of Anti-hypertensive Drugs (Beta Blockers) and NSAIDS in Oral Squamous Cell Carcinoma: Newer Applications to be Explored in Preclinical Studies	Dr. Suresh Kumar Rayala	Biotechnology
168	Enabling the Targeted Delivery of Novel P21 Activated Kinase 1 (Pak1) Inhibitors to Aggressive Glioblastoma Cells by Conjugating to Tumor Specific Peptides Selected from Phage Peptide Library	Dr. Suresh Kumar Rayala	Biotechnology
169	Lectin-based Targeting of a Nanostructured Nordihydroguaiaretic Acid Analog to Asialoglycoprotein Receptor in Hepatocytes for Therapeutic Delivery in Liver Cancer	Dr. Suresh Kumar Rayala	Biotechnology
170	Targeting histone H2AX phosphorylation (H2AX) with Peptides to Circumvent repair after Radiation induced DNA damage in breast cancer cells	Dr. Suresh Kumar Rayala	Biotechnology
171	Exploring CRISPR-Cas9 Technology to impede Crosstalk Between Inflammatory Tumor Microenvironment and p21 Activated Kinase 1 (Pak1) Signaling in Tumor Xenograft Models of Aggressive Triple Negative Breast Cancers (TNBC): A Potential Way to Alter Therapeutic Response in Triple Negative Breast Cancers	Dr. Suresh Kumar Rayala	Biotechnology
172	Mapping of NCOR1 and DLK1 Interaction in the Endometrial Cancer: A Regulation via Notch Signalling	Dr. Suresh Kumar Rayala	Biotechnology
173	Development of Economical Bioactive Double Network Hydrogels for Combinatorial Treatment of Diabetic Wounds	Dr. Vignesh MuthuVijayan	Biotechnology
174	Central Sector Scheme for MOOC-compliant e-content creation (NPTEL Phase IV)	Dr. Andrew Thangaraj	Centre for Continuing Education



175	CSS-MOOCs (NPTEL Pahse IV) - IITM	Dr. Andrew Thangaraj	Centre for Continuing Education
176	Translation and Subtitling of Higher Education MOOCs Video Lectures in Indian Languages	Dr. Andrew Thangaraj	Centre for Continuing Education
177	Swayam 2.0	Dr. Andrew Thangaraj	Centre for Continuing Education
178	Online Degree Vertical of Swayam	Dr. Andrew Thangaraj	Centre for Continuing Education
179	Education through Information and Communication Technology using Direct-to-Home (DTH) - Phase -II	Dr. Mangala Sunder K	Centre for Continuing Education
180	Rural Technology Action Group (RuTAG) - Phase-IV	Dr. Abhijit Deshpande P	Centre for Industrial Consultancy and Sponsored Research
181	Centre of Propulsion Technology - COPT	Dr. Chakravarthy S R	Centre for Industrial Consultancy and Sponsored Research
182	Tata Steel Advanced Materials Research Centre	Dr. Deanlcsr	Centre for Industrial Consultancy and Sponsored Research
183	Innovative Student Projects - Sub project of CR1718CIE002PCSLINDU	Dr. Deanlcsr	Centre for Industrial Consultancy and Sponsored Research
184	Unnat Bharat Abhiyan	Dr. Devendra Jalihal	Centre for Industrial Consultancy and Sponsored Research
185	Setting up of Teaching Learning Centre under the scheme Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)	Dr. Edamana Prasad	Centre for Industrial Consultancy and Sponsored Research
186	Centre for Railway Research (CRR)	Dean IC&SR	Centre for Railway Research
187	National Centre for Safety of Heritage Structures (NCSHS)	Dr. Arun Menon	Centre for Safety Heritage Structures
188	IITM Heritage Centre Operation	Dr. Nagarajan R	Centre for Safety Heritage Structures
189	Centre for Social Innovation and Entrepreneurship (CSIE) - Phase II	Dr. Nagarajan R	Centre for Social Innovation and Entrepreneurship
190	Creation of Management Structure for Hazardous Substances	Dr. Muralaeddharan V R	Centre for Technology and Policy
191	Centre for Technology and Policy (CTaP)	Dr. Muralaeddharan V R	Centre for Technology and Policy
192	Operational Research Program (ORP) of Tamil Nadu Health System Reform Program	Dr. Muralaeddharan V R	Centre for Technology and Policy
193	Samagra Shiksha Abhiyan - Tamil Nadu	Dr. Sureshbabu M	Centre for Technology and Policy
194	Centre of Excellence in Advanced Automotive Research (CAAR)	Dean IC&SR	Centre of Excellence in Advanced Automotive Research
195	Centre of Excellence in Advanced Materials and Manufacturing (CoE)	Dr. Sampathkumar T S	Centre of Excellence in Advanced Materials and Manufacturing
196	Centre of Excellence in Iron and Steel Technology (COEXIST)	Dr. Hari Kumar K C	Centre of Excellence in Iron and Steel Technology

197	Development of large area (100cm <sup>2</sup> ) organic-inorganic hybrid perovskite solar cells	Dr. Aravind Kumar Chandiran	Chemical Engineering
198	Coordination Frameworks for Solar Energy Conversion	Dr. Aravind Kumar Chandiran	Chemical Engineering
199	Ferroelectric Photo Electrochemical Water Splitting	Dr. Aravind Kumar Chandiran	Chemical Engineering
200	Studies on the Development of Devices Using MXenes/2D Materials for Energy Harvesting Applications	Dr. Aravind Kumar Chandiran	Chemical Engineering
201	Genetic Engineering of Microbes and Regulation of Charge Transfer Dynamics for High Performance Biophotovoltaics	Dr. Aravind Kumar Chandiran	Chemical Engineering
202	Earth Abundant and Scalable Two Dimensional Catalysts for Selective Photo-electrochemical Solar Conversion of Carbon Dioxide to Methane/methanol	Dr. Aravind Kumar Chandiran	Chemical Engineering
203	Development of a Prototype Metal Air Battery Driven Electrical Drive for a City Bus Duty	Dr. Aravind Kumar Chandiran	Chemical Engineering
204	Detection and Diagnosis of Model-Plant-Mismatch in Model Predictive Control Schemes	Dr. Arun K Tangirala	Chemical Engineering
205	Dynamics of patterns in Belousov-Zhabotinsky reaction tailored by graphene-based nanocomposites	Dr. Basavaraja Madivala Gurappa	Chemical Engineering
206	Investigation of the Role of Evaporation Driven Flows in the Self-Assembly of Nanoparticles	Dr. Basavaraja Madivala Gurappa	Chemical Engineering
207	High-throughput Synthesis of Non-spherical Plasmonic Nanoparticles for Applications in Sensing	Dr. Ethayaraja Mani	Chemical Engineering
208	Engineering of Interfaces to Destabilize Pickering Emulsions	Dr. Ethayaraja Mani	Chemical Engineering
209	Application of high-performance computing and machine learning to design multiphase reactors for clean energy applications	Dr. Himanshu Goyal	Chemical Engineering
210	Aqueous-phase Mild Oxidation of Methane to Methanol on Atomically Dispersed Catalysts: Mechanistic Insights and Solvent Effects from First Principles	Dr. Jithin John Varghese	Chemical Engineering
211	Materials and processing for enhanced solar cell performance- FIST 2016	Dr. Nagarajan R	Chemical Engineering
212	Decellularized Extracellular Matrix for Treating Cardiac Injury	Dr. Nagarajan R	Chemical Engineering
213	Fundamental Studies on Water-in-Diesel Emulsions as Alternative Fuels	Dr. Niket Kaisare	Chemical Engineering
214	A Low Cost Option for the Catalytic Reduction of Automotive NO <sub>x</sub> in Lean Burning Engines	Dr. Preeti Aghalayam	Chemical Engineering
215	Development of dry slag, granulation technology and energy recovery system for blast furnace slag for producing clinker compatible product	Dr. Pushpavanam S	Chemical Engineering
216	Setting up a zero discharge pilot plant to process 100 kg of PCB to recover lead, tin and copper	Dr. Pushpavanam S	Chemical Engineering
217	Enabling Technologies for Enhancing Access of Medicines in India through point-of-demand Production of Oral Dosage Forms	Dr. Raghunathan Rengasamy	Chemical Engineering
218	Extreme Learning Machine based Pitch Angle Prediction for Uniform Power Generation and Load Mitigation using HIL Simulator of Digital Hydraulic Pitch System in Wind Turbine	Dr. Raghunathan Rengasamy	Chemical Engineering

219	Power Draw Allocation from a Network of Fuel-cell Stack	Dr. Raghunathan Rengasamy	Chemical Engineering
220	Design and Development of Bimetallic Nanostructured Photocatalyst for Selective Conversion of Carbon Dioxide to Fuels	Dr. Raghuram Chetty	Chemical Engineering
221	Natural Gas Value Chain Management	Dr. Rajagopalan Srinivasan	Chemical Engineering
222	Cost Effective Eye Tracking Approaches to Analyze Human-Machine-Interface in Nuclear Power Plants	Dr. Rajagopalan Srinivasan	Chemical Engineering
223	Bench Scale Studies For Gas Hydrate Based Continuous Gas Separation Process: Separation of Industrially Relevant Binary and Ternary Gas Mixture like Co <sub>2</sub> /H <sub>2</sub> , Co <sub>2</sub> /CH <sub>4</sub> /H <sub>2</sub> S and CH <sub>4</sub> /N <sub>2</sub> /H <sub>2</sub>	Dr. Rajnish Kumar	Chemical Engineering
224	Next Generation Multifunctional Aerogels for Treating Soluble Microplastics, Pesticides and Drugs in Water, and Recovery	Dr. Rajnish Kumar	Chemical Engineering
225	Electrochemical Biosensor for Detections of Cardiac Biomarker (Troponin-cTnI & cTnT) using Chitosan Modified Mesoporous Hollow CNT @ NiMn-LDH Nanocomposite	Dr. Ramanathan S	Chemical Engineering
226	An SEIR Model to Estimate the Effect of Pharmaceutical and Non-pharmaceutical Interventions on the Spread of Covid19	Dr. Ramanathan S	Chemical Engineering
227	Synthesis of a novel, highly hydrophobic and antimicrobial organic inhibitors for corrosion protection applications of mild steel in acidic medium	Dr. Ramanathan S	Chemical Engineering
228	National Carbonaceous Aerosols Programme (NCAP) Working Group-III project	Dr. Ravi Krishna R	Chemical Engineering
229	Chemical Composition of Atmospheric Fine Particles (PM <sub>2.5</sub> ) over a South Indian City, Nellore	Dr. Ravi Krishna R	Chemical Engineering
230	AMR and Pollutants: Interactive Studies and Novel Sensor Technologies	Dr. Renganathan T	Chemical Engineering
231	Development of 10 kW / 50 kWh Redox Flow Battery System for Solar PV Applications	Dr. Sreenivas Jayanti	Chemical Engineering
232	Modelling of Flow, Electrochemical and Thermal Phenomena in High Temperature PEM Fuel Cells	Dr. Sreenivas Jayanti	Chemical Engineering
233	Continuous manufacturing of dl-2-amino-l-butanol	Dr. Sridharakumar Narasimhan	Chemical Engineering
234	New Strategies for optimal operation of water supply schemes by use of scheduling and decentralized Infrastructure	Dr. Sridharakumar Narasimhan	Chemical Engineering
235	Water Distribution and Sewer Networks	Dr. Sridharakumar Narasimhan	Chemical Engineering
236	A Framework for Quantifying the Resilience of Complex Networks: Applications to Water Distribution Networks and Power Grids	Dr. Sridharakumar Narasimhan	Chemical Engineering
237	Guiding Hydrodynamically Interacting Micro-Swimmers	Dr. Sumesh P Thampi	Chemical Engineering
238	Support the Natural Environment and Wildlife of IIT Madras campus	Dr. Susy Varughese	Chemical Engineering
239	Understanding the Microstructure and Rheology of Root Derived Mucilage and its Interactions with Soil in the Context of Plant Physiology	Dr. Susy Varughese	Chemical Engineering
240	Molecular Design of Highly Permeable Polymer Grafted Nanoparticle Membranes	Dr. Tarak Kumar Patra	Chemical Engineering

241	Molecular Design of Polymeric Ionic Liquid for Energy Storage Materials	Dr. Tarak Kumar Patra	Chemical Engineering
242	Waste heat recovery boiler using municipal solid waste: Analysis, model testing and pilot plant design commissioning and testing	Dr. Vinu R	Chemical Engineering
243	Development of 100L Hydrothermal Liquefaction Facility to Process Seaweeds and Waste Materials	Dr. Vinu R	Chemical Engineering
244	Waste to Engine Low Temperature Combustion of Sustainable Green Fuels - DST - UKIERI	Dr. Vinu R	Chemical Engineering
245	Design, development and application of C2-symmetric chiral cyclopentadien(on)e in the transition metal catalyzed asymmetric transformation	Dr. Anbarasan P	Chemistry
246	Investigation of Transition Metal Catalyzed Carbonylative Transformations via Functionalization of Acylmetal Species: Synthesis of Potential Building Blocks and Carbo (Hetero) Cycles	Dr. Anbarasan P	Chemistry
247	Design, development and application of C2-symmetric chiral cyclopentadien(on)e in the transition metal catalyzed asymmetric transformation	Dr. Anbarasan P	Chemistry
248	Structure and Interaction in Membrane Mimetic Lipid Mono/Bilayers with DNA/DNA Origami Structures	Dr. Archita Patnaik	Chemistry
249	Shape Control and Dynamics in Self-Aggregation Geometries from Polymer - ionic Liquid Interactions	Dr. Archita Patnaik	Chemistry
250	Well-defined Heterometallic Complexes-Catalysts in Tandem Reactions	Dr. Arnab Rit	Chemistry
251	Stereoelectronically Tunable NHC Ligand Supported Base Metal Complexes: Catalytic Applications in CO <sub>2</sub> Reduction and C-X Bond Formations/Functionalizations	Dr. Arnab Rit	Chemistry
252	Exploratory Studies on the Divergent Reactivity of Propargyl Ethers: An Avenue for New Reaction Development for Natural Products and Drugs	Dr. Beeraiah Baire	Chemistry
253	Supramolecular Chirogenesis in the Novel Electron Deficient Bisporphyrins and their Applications in Absolute Configuration Determination of Chiral Organic Compounds	Dr. Bhyrappa P	Chemistry
254	New Catalysts for Sustainable Polymers and Copolymers	Dr. Debashis Chakraborty	Chemistry
255	Developing theoretical methods to understand anomalous diffusion (Levy Flights)	Dr. DEEPIKA JANAKIRAMAN	Chemistry
256	Multi- compartmental Coordination Cages	Dr. Dillip Kumar Chand	Chemistry
257	Switchable Coordination Cages as Supramolecular Machines and their Application in Enantiodivergent Asymmetric Synthesis	Dr. Dillip Kumar Chand	Chemistry
258	Development of Novel Self-Assembling Dendritic Systems for Biomedical Applications: Characterization and Kinetic Analysis	Dr. Edamana Prasad	Chemistry
259	FIST - 2015	Dr. Indrapal Singh Aiden	Chemistry
260	Total synthesis of Benzo[c]phenanthridinones and Benzo[c]phenanthridine Alkaloids via a Metal-Catalyzed Cyclization of Aromatic Esters or Amides with Azabenzonorbornadienes through C-H Bond Activation	Dr. Jeganmohan M	Chemistry
261	Synthesis of Heterocycles: Ruthenium(II)-Catalyzed Redox-Free Cyclization of Substituted Aromatics or Alkenes with Carbon-Carbon Components via C-H Bond Activation	Dr. Jeganmohan M	Chemistry
262	Ruthenium - Catalyzed TT - Bond Assisted C-H Bond Functionalization of Hydrocarbons	Dr. Jeganmohan M	Chemistry

263	Light induced process of hierarchical electron cascade system, materials and devices for solar energy conversion	Dr. Kothandaraman Ramanujam	Chemistry
264	DST-IISc Energy Storage Platform on Supercapacitors	Dr. Kothandaraman Ramanujam	Chemistry
265	On the Reduction of iR-losses, Flow Optimization and Identifying Alternative Membranes to Nafion for 1kW -4kWh Vanadium Redox Flow Battery Suitable for Residential Use	Dr. Kothandaraman Ramanujam	Chemistry
266	Meso-microporous core-shell carbon-based materials and electroactive diluent for long cycle life and high energy density Li- S batteries	Dr. Kothandaraman Ramanujam	Chemistry
267	Development of weakly coordinating group aided catalytic C-H bond activation strategy for organic synthesis	Dr. Md Mahiuddin Baidya	Chemistry
268	Common Functional Groups Assisted and Visible-Light Driven Electronically Controlled Catalytic C-H Bond Functionalizations and Applications towards Natural Product Scaffolds	Dr. Md Mahiuddin Baidya	Chemistry
269	Photophysics of Acetylene bridged Push-Pull System: Torsional Effects on Local, Intramolecular Charge Transfer and Aggregate Emissions	Dr. Mishra A K	Chemistry
270	Water Treatment	Dr. Pradeep T	Chemistry
271	Understanding Surface Properties of Atomically Engineered Cluster-assembled Solids	Dr. Pradeep T	Chemistry
272	Atomically Precise Clusters Protected Porous Silica Shell with Biofunctionalisation	Dr. Pradeep T	Chemistry
273	Chemical Transformations of Clathrate Hydrates under Ultra-high Vacuum	Dr. Pradeep T	Chemistry
274	Identification and Investigation of Efficacy of Potential Biochemical Molecules for Extraction of Gold and Other Noble Metals from Tailings and Waste Sources	Dr. Pradeep T	Chemistry
275	Carborane-protected Metal Nanoclusters: A New Family of Materials with Atomic Precision	Dr. Pradeep T	Chemistry
276	Atomically Precise Naked Clusters Assemblies from Ligand-stabilized Clusters New Materials for Catalysis	Dr. Pradeep T	Chemistry
277	The Thermal Rearrangement of phenyl Allyl Ethers, Propargyl Ethers and Benzyl Ethers behind Reflected Shock Waves	Dr. Rajakumar B	Chemistry
278	Experimental and Computational Investigations on the Photo-Oxidation of Selective Esters and Fluorinated Ethers Initiate by OH Radicals and Cl Atoms and their Impact on the Earth's Atmosphere	Dr. Rajakumar B	Chemistry
279	Kinetic Investigations of Reactions of Criegee Intermediates with C1-C3 Carbonyl Compounds and Carboxylic Acids in the Earth's Atmosphere	Dr. Rajakumar B	Chemistry
280	Synthesis of Novel Superbase Ionic and Analysis of their Interactions with CO2 - A Thermodynamic Approach towards Rational Design of Efficient Absorbent for CO2 Capture and Regeneration	Dr. Ramesh Gardas	Chemistry
281	Metal Free Ionic Liquid Mediated One Pot Synthesis of 3-hydroxy-3H-Spiro[Benzo[b]thiophene-2,1'-cyclopentan]-2'-one/Medicinally Important Benzo[b]thiophene Moiety Using Inexpensive Starting Materials	Dr. Ramesh Gardas	Chemistry
282	Development of Novel Highly Hydrophilic nanoclay Composite with Added Microbial inputs for Sustainable Arid Soil Agricultural Practices & Management	Dr. Ranga Rao G	Chemistry
283	Design of Photonic Crystals of g-C3N4@tantalum Nitride/ Oxynitride Nanohybrid Photoelectrodes for High Solar to Hydrogen Conversion Efficiency	Dr. Ranga Rao G	Chemistry
284	Analysis of Critical Phenomena in Discrete Lattice Models Using Graph Theoretical Approaches and Pade' Approximants - MATRICS	Dr. Sangaranarayanan M V	Chemistry

285	Investigation of Stable Organic and Organometallic Radical Ions and Ions as Electro-active Species in Organic Redox Flow Batteries(RFBs) in Non-aqueous Media	Dr. Sankaraman S	Chemistry
286	Design and Synthesis of CBr <sub>4</sub> -Analogues Halogen Bonding Catalysts for Functional Group Activation: An Extension to Asymmetric Synthesis	Dr. Sekar G	Chemistry
287	Selective Catalytic Dehydroxylation of Biomass Derived Glycerol into 1,3 - Propane Diol	Dr. Selvam P	Chemistry
288	Oxo-Metallic Complexes Anchored Mesoporous Silica: Potential UV-Visible Light Harvesting Materials for Photocatalytic Reactions as well as for Bio-inspired Catalytic Hydrogenation	Dr. Selvam P	Chemistry
289	Development of PEM Fuel-cell Stacks for Utilization of Hydrogen from Renewable Sources	Dr. Selvam P	Chemistry
290	Synthesis of Metallaboranes and Borides Containing Rare Earth Elements and their Applications	Dr. Sundargopal Ghosh	Chemistry
291	Boron-controlled CO <sub>2</sub> Reduction	Dr. Sundargopal Ghosh	Chemistry
292	Synthesis and Applications of Diborane(4), Diborane(6) and Diborene(2) Species at the Coordination Spare of Early transition Metals	Dr. Sundargopal Ghosh	Chemistry
293	Supramolecular Host-Guest Complexes Between Coumarin [4] arene and Fluorescent Dyes Towards White-light Emission	Dr. Venkatakrishnan P	Chemistry
294	A Study of Blast Wave Impact on Helmet-head Assembly to Mitigate Traumatic Brain Injury	Dr. Alagappan Ponnalagu	Civil Engineering
295	Structural Behaviour of Corroding Prestressed Concrete Systems and Extension of Service Life Using Cathodic Protection	Dr. Amlan K Sengupta	Civil Engineering
296	National Centre for Safety of Heritage Structures (NCSHS)	Dr. Arun Menon	Civil Engineering
297	Development Seismic Strengthening Strategies for Ancient South Indian Mandapas (Women Scientist)	Dr. Arun Menon	Civil Engineering
298	Sustainable Drainage Systems and Water Management	Dr. Balaji Narasimhan	Civil Engineering
299	Assessment of Hydrological Impacts Due to Climate Change and Development of Best Irrigation and Crop Management Strategies that Increases the Resilience	Dr. Balaji Narasimhan	Civil Engineering
300	Integrating Hydrology and Agriculture with Livelihood Issues: Development of Climate Change Adaptation Approaches for Sustainable Water management in Humid Tropical Kerala	Dr. Balaji Narasimhan	Civil Engineering
301	Development of Web Enabled Hydrologic Modelling in SWAT(WEHMS) under National Hydrology Project	Dr. Balaji Narasimhan	Civil Engineering
302	3D Printing and Construction Automation for Affordable Housing	Dr. Benny Raphael	Civil Engineering
303	Departure Time Planner using V2V and V2I communication	Dr. Bhargava Rama Chilukuri	Civil Engineering
304	Process Level Understanding of Aerosol-Fog-Urbanization Coupling over IGP	Dr. Chandan Sarangi	Civil Engineering
305	Environmental Antimicrobial Resistance - Creation of a Region Specific Metagenomic Database and Strategies for Halting the Propagation of AMR	Dr. Indumathi Manivannan Nambi	Civil Engineering
306	Marine Litter and Microplastic	Dr. Indumathi Manivannan Nambi	Civil Engineering

307	Circular Economy in Sanitation Projects - NPK Fertiliser, Carbon Recovery and Water Reuse	Dr. Indumathi Manivannan Nambi	Civil Engineering
308	Sanitation in the Circular Economy - An Integrative-modular-onsite Toilet Treatment for NPK Fertilizer, Carbon and Water	Dr. Indumathi Manivannan Nambi	Civil Engineering
309	Effect-based Monitoring demonstrates Efficiency of Electrically-driven Water Treatment Processes to Remove Salts and Micropollutants from Process Water (EfectroH2O)	Dr. Indumathi Manivannan Nambi	Civil Engineering
310	A Connected Intermediate Public Transport Mobility-as-a-service (IPTMAAS) Solution for the Last Mile Connectivity and Multi-model Integration Problems of Public Transit	Dr. Karthik K Srinivasan	Civil Engineering
311	Data-driven Models and Decision Support Tools for Improved Transit Reliability in Indian Cities	Dr. Karthik K Srinivasan	Civil Engineering
312	Moment-Shear Interaction of Unstiffened Steel I-Sections Subject to Lateral Torsional Buckling	Dr. Lakshmi Priya P S	Civil Engineering
313	Advanced Techniques for Mobility and Congestion Analysis for Indian Cities	Dr. Lelitha Devi	Civil Engineering
314	Development of a Bus Priority System at Signalized Intersections using V2I Communication	Dr. Lelitha Devi	Civil Engineering
315	Fate and Management of Emerging Contaminants	Dr. Ligy Philip	Civil Engineering
316	Centre for Sustainable Treatment, Reuse and Management for Efficient, Affordable and Synergistic Solutions for Water (WATER-IC for SUTRAM of EASY WATER)	Dr. Ligy Philip	Civil Engineering
317	Wastewater Treatment Technologies and Sensors	Dr. Ligy Philip	Civil Engineering
318	Centre for Sustainable Treatment, Reuse and Management for Efficient, Affordable and Synergistic So	Dr. Ligy Philip	Civil Engineering
319	Adaptation of waste management infrastructure in coastal areas to climate change	Dr. Ligy Philip	Civil Engineering
320	Identifying Best Available Technologies for Decentralized Wastewater Treatment and Resource Recovery for India	Dr. Ligy Philip	Civil Engineering
321	Development of Acoustic Pulse based Testing System for Concrete	Dr. Manu Santhanam	Civil Engineering
322	Towards Durability Specifications with Recycled Aggregate Concrete	Dr. Manu Santhanam	Civil Engineering
323	Biomass to Energy from Low Strength Municipal Wastewater using a New Microalgal-Anaerobic-Membrane-Bioreactor(s)	Dr. Mathava Kumar S	Civil Engineering
324	Development of Novel Water and Wastewater Treatment Technologies	Dr. Mathava Kumar S	Civil Engineering
325	Bioremediation of Urban Sites Contaminated Due to Municipal Wastewater Disposal	Dr. Mohan S	Civil Engineering
326	Influence of polymer dosage and nature of bitumen on the microstructural and rheological characteristics of polymer modified binders	Dr. Murali Krishnan J	Civil Engineering
327	Development of Inspection and Structural Health Monitoring Techniques for Solar Power Plant Systems	Dr. Nageswara Rao B	Civil Engineering
328	Designing Origami-based Metamaterials with Low Frequency Elastic Bandgaps	Dr. Phanisri Pradeep Pratapa	Civil Engineering

329	Sustainability of Novel Cementitious Binders Derived from Industrial By-Products	Dr. Piyush Chaunsali	Civil Engineering
330	Corrosion Protection and Service Life Extension of Reinforced Concrete Roofing Systems in Existing Buildings	Dr. Radhakrishna G Pillai	Civil Engineering
331	Enhancing the Durability and Sustainability of Concrete Structures in Emerging Economics	Dr. Radhakrishna G Pillai	Civil Engineering
332	Use of Overburden Clay as Alternate for Coarse Aggregate	Dr. Ramamurthy K	Civil Engineering
333	A Critical Understanding on the Mechanics of Gas Hydrate Sediments for Sustainable Long Term Energy Extraction	Dr. Ramesh Kannan Kandasami	Civil Engineering
334	A New Framework of High Value Added Zero-waste Recycling of Concrete from Construction and Demolition Waste	Dr. Ravindra Gettu	Civil Engineering
335	Study of the Deterioration Mechanisms in Glass Textile Reinforced Concrete and Improvement of its Durability	Dr. Ravindra Gettu	Civil Engineering
336	Modular Lightweight Wastewater Treatment Units made with TRC for Rural and Periurban Dwellings (CleanWater)	Dr. Ravindra Gettu	Civil Engineering
337	Draft of Indian Standard Code of Practice for Seismic Design and Detailing of Steel Structures	Dr. Rupen Goswami	Civil Engineering
338	Process analysis, observations and modeling- Integrated solutions for cleaner air for Delhi (PROMOTE)	Dr. Sachin S Gunthe	Civil Engineering
339	Type and Diversity of Ice Nucleating Microbes under Varying Environments: Implications of Natural and Anthropogenic Bioaerosols	Dr. Sachin S Gunthe	Civil Engineering
340	Properties of Atmospheric Aerosols from Contrasting Environment in Continental and Marine Boundary Layer Over Tropical Indian Region	Dr. Sachin S Gunthe	Civil Engineering
341	Mass based hygroscopicity of ambient aerosols under contrasting environment over eastern coast of In	Dr. Sachin S Gunthe	Civil Engineering
342	Relation between Pathogenic Bio-aerosol and Biotic Stress of Crop - A Case Study for Yellow Rust Fungus of Wheat	Dr. Sachin S Gunthe	Civil Engineering
343	Implicit constitutive relation-Representation and analysis	Dr. Saravanan U	Civil Engineering
344	Numerical Technique to Solve Boundary Value Problems in Solid Mechanics	Dr. Saravanan U	Civil Engineering
345	CPCB Continuous Ambient Air Quality Monitoring Station at IIT Madras- Phase II	Dr. Shiva Nagendra S M	Civil Engineering
346	Clean Air for Delhi Through Interventions, Mitigations and Engagement (CADTIME)	Dr. Shiva Nagendra S M	Civil Engineering
347	GCRF Clean Environment and Planetary Health in Asia (CEPHA) Network	Dr. Shiva Nagendra S M	Civil Engineering
348	Promoting Road Safety through Deployment of Driver Assistance and Warning Systems	Dr. Sivanandan R	Civil Engineering
349	Experimental and Numerical Model Study of Urban Flood	Dr. Soumendra Nath Kuiry	Civil Engineering
350	Storm surge impact on estuaries	Dr. Soumendra Nath Kuiry	Civil Engineering



351	AMRFlows: Antimicrobials and Resistance from Manufacturing Flows to People: Joined up Experiments, Mathematical Modelling and Risk Analysis	Dr. Soumendra Nath Kuiry	Civil Engineering
352	Urban Modelling: Development of Multi-Sectorial Simulation Lab and Science Based Decision Support Framework to Address Urban Environment Issues	Dr. Soumendra Nath Kuiry	Civil Engineering
353	Climate change impact on water resources in coastal areas	Dr. Sudheer K P	Civil Engineering
354	Enhancing the water use efficiency in agriculture practices in Himalayan region	Dr. Sudheer K P	Civil Engineering
355	Investigating the Influence of Crop Canopy Architecture on the Dynamics of Spatio-temporal Light Distribution and its Effect on Photosynthesis, Transpiration and Crop Yield	Dr. Venkatraman Srinivasan	Civil Engineering
356	Impact of Navigation on Flow and Sediment Transport at River Confluences: An Experiment Study	Dr. Venu Chandra	Civil Engineering
357	Centre of Excellence (CoE) for Application of Coir Exclusively or in Combination with other Natural Fibres	Dr. Rajagopal K	Coir Board
358	VAJRA Visiting Faculty - Dr.Shrikanth S Narayanan	Dr. Hema A Murthy	Computer Science & Engineering
359	Development of Anti-Spoofing method for Automatic Speaker Verification System	Dr. Hema A Murthy	Computer Science & Engineering
360	Text to Speech Generation with Chosen Accent and Noise Profiles for Aerospace and Industrial Domains	Dr. Hema A Murthy	Computer Science & Engineering
361	Automatic Speech Recognition in Indian English, Tamil, Hindi, and Text to Speech Synthesis for conversational speech in Indian languages	Dr. Hema A Murthy	Computer Science & Engineering
362	Applications of Word Problems in Computer Science	Dr. Jayalal Sarma M N	Computer Science & Engineering
363	Lower Bounds in Distributed Computing	Dr. John Ebenezer Augustine	Computer Science & Engineering
364	Secure critical systems laboratory - FIST	Dr. Kamakoti V	Computer Science & Engineering
365	Abdul Kalam Technology Innovation National Fellowship	Dr. Kamakoti V	Computer Science & Engineering
366	Security and Edge Intelligence Hardware Extensions for SHAKTI Based Compute Environment	Dr. Kamakoti V	Computer Science & Engineering
367	Indigenous Semi-Conductor Hardware Development and Cyber Security - Impact on financial, social and strategic Security	Dr. Kamakoti V	Computer Science & Engineering
368	Research Roadmap for Cyber Arangam	Dr. Kamakoti V	Computer Science & Engineering
369	National Mission on Interdisciplinary Cyber Physical Systems	Dr. Kamakoti V	Computer Science & Engineering
370	SPARE: Safe Portable Partial-Analysis Results for JAVA Programs	Dr. Krishna Nandivada V	Computer Science & Engineering
371	Optimizing HPC Applications	Dr. Krishna Nandivada V	Computer Science & Engineering
372	Programming Model/Language and Compiler for Emerging HPC Systems	Dr. Krishna Nandivada V	Computer Science & Engineering

373	Rigorous Verification and Validation of Memory Systems in Heterogeneous Computing Systems using Statistical Model Checking	Dr. Madhu Mutyam	Computer Science & Engineering
374	Computational Methods for Multi-tissue Models of Health and Disease	Dr. Manikandan Narayanan	Computer Science & Engineering
375	Matchings under Preferences - Theory and Practice	Dr. Meghana Nasre	Computer Science & Engineering
376	Simulation-based Optimization in a Cumulative Prospect Theory Framework	Dr. Prashanth L A	Computer Science & Engineering
377	Improving the resource efficiency of CPUs for Deep Learning	Dr. Pratyush Kumar	Computer Science & Engineering
378	Conversation Agents for Urban Navigation	Dr. Ravindran B	Computer Science & Engineering
379	Multilayer network centrality measures to identify known and novel regulators of tissue-tissue communication	Dr. Ravindran B	Computer Science & Engineering
380	HPC Application Frameworks	Dr. Rupesh Nasre	Computer Science & Engineering
381	NSM Nodal Centre for training in HPC and AI	Dr. Rupesh Nasre	Computer Science & Engineering
382	Computing on Encrypted Data: New Paradigms in Functional Encryption	Dr. Shweta Agrawal	Computer Science & Engineering
383	Post Quantum Cryptography Challenges, Opportunities and Beyond	Dr. Shweta Agrawal	Computer Science & Engineering
384	Post Quantum Cryptography Challenges, Opportunities and Beyond	Dr. Shweta Agrawal	Computer Science & Engineering
385	Design and Development of Blockchain based Technologies	Dr. Shweta Agrawal	Computer Science & Engineering
386	JC Bose Fellowship	Dr. Siva Ram Murthy C	Computer Science & Engineering
387	Multicore Support for Tezos Blockchain	Dr. Sivaramakrishnan K C	Computer Science & Engineering
388	Scene understanding for identification of covert Geo locations, using a Hyper-Classifer based Visual Intelligent system	Dr. Sukhendu Das	Computer Science & Engineering
389	Boeing India University Relations -Phase II	Dean ACR	Dean ACR
390	Institute of Eminence Research Initiative Projects	Director - IITM	Director - IITM
391	Design Enablement of Self-aligned Double Poly-silicon Emitter Bipolar Transistors for RF Applications	Dr. Amitava Das Gupta	Electrical Engineering
392	Compact Model Development of GaN High Electron Mobility Transistors and Validation Through Characterization of Fabricated Test Structures	Dr. Amitava Das Gupta	Electrical Engineering
393	Self-aligned Double Poly-silicon Emitter Bipolar Technology for RF Applications	Dr. Amitava Das Gupta	Electrical Engineering
394	Microfabrication and Testing Of Piezo Thin Film Integrated on Si MEMS Structures for Energy Harvesting Applications	Dr. Amitava Das Gupta	Electrical Engineering

395	Design and Development of Multi-bit Phase Change Memory for High Density, High Speed Non-volatile Random Access Memory (NVRAM) Applications	Dr. Anbarasu Manivannan	Electrical Engineering
396	Investigations on the Origin of Threshold Switching Mechanism in Chalcogenide-based Phase Change Materials and its Impact on Enabling the Speed Limits of Ovonic Threshold Switch (OTS) Selectors and Phase Change Memory (PCM) Devices	Dr. Anbarasu Manivannan	Electrical Engineering
397	Development of a Suite of Indigenous Assistive Systems and Tools for the Disabled Community in India	Dr. Anil Prabhakar	Electrical Engineering
398	Free space optical link for line of sight communication near border areas	Dr. Anil Prabhakar	Electrical Engineering
399	Coherent One Way Quantum Key Distribution	Dr. Anil Prabhakar	Electrical Engineering
400	Embedded System for Alternative and Augmentative Communication (AAC)	Dr. Anil Prabhakar	Electrical Engineering
401	Multiplexed Fluorophore Detection on a Miniaturized Optofluidic Platform for Affordable Healthcare and other Applications	Dr. Anil Prabhakar	Electrical Engineering
402	Metro Area Quantum Access Network (MAQAN)	Dr. Anil Prabhakar	Electrical Engineering
403	Development of Silicon BiCMOS Technology for RF Applications	Dr. Anjan Chakravorthy	Electrical Engineering
404	Developing Low Cost Bipolar Transistors for Analog and RF Applications in 0.18 $\mu$ m CMOS technology	Dr. Anjan Chakravorthy	Electrical Engineering
405	Non-smooth Primal-dual Dynamics: Application to Resource Placement Problem	Dr. Arunkumar D Mahindrakar	Electrical Engineering
406	Harnessing Human-centric Networks	Dr. Avhishek Chatterjee	Electrical Engineering
407	Combining Information and Queuing Theory for Emerging Applications	Dr. Avhishek Chatterjee	Electrical Engineering
408	Power Scalable kilowatt Class Laser Sources for Directed Energy Applications Through Coherent Beam Combining of Narrow Linewidth Fiber Lasers	Dr. Balaji Srinivasan	Electrical Engineering
409	Mitigation of Stimulated Brillouin Scattering (SBS) for Power Scaling of Narrow Linewidth Fiber Amplifiers	Dr. Balaji Srinivasan	Electrical Engineering
410	Multi-channel Fiber Bragg Grating-based Sensors and interrogator Development for Elastic Wave Sensing in Composite Structures for SHM Applications	Dr. Balaji Srinivasan	Electrical Engineering
411	In-situ Monitoring of Fire in Tunnels and Underground Transportation Systems using Distributed Anti Stokes Raman Thermometry (DART)	Dr. Balaji Srinivasan	Electrical Engineering
412	Fibre Optic Guided Wave Structural Health Integrity Evaluation and Diagnosis (SHIELD) for Autonomous Underwater Vehicles (AUVs)	Dr. Balaji Srinivasan	Electrical Engineering
413	Design and Development of Partial discharge identification system for Gas insulated system adopting fluorescent optical fibers	Dr. Balaji Srinivasan	Electrical Engineering
414	Development of a highly Versatile Secure very Wide-Band Wireless Communication Platform (VERSA - COMM) for Defence and Strategic Applications	Dr. Bhaskar Ramamurthi	Electrical Engineering
415	Visvesvaraya PhD Scheme for Electronics and IT - a scheme from DEITY	Dr. Bijoy Krishna Das	Electrical Engineering
416	Quantum Information Technologies with Photonic Devices - Integrated Quantum Optical Circuit for Entangled Photon Pair Generation and Manipulation in Silicon Photonics Platform	Dr. Bijoy Krishna Das	Electrical Engineering

417	VAJRA Visiting Faculty - Dr.Shayan Mookherjea	Dr. Bijoy Krishna Das	Electrical Engineering
418	Centre for Programmable Photonic Integrated Circuits and Systems (CPPICS)	Dr. Bijoy Krishna Das	Electrical Engineering
419	Electromagnetic Energy Harvester for MR anti-vibration Mount and its Integration	Dr. Bobby George	Electrical Engineering
420	Development of Graphene/Reduced Graphene Oxide based Transparent Conductive Substrate for Optoelectronic Devices	Dr. Debdutta Ray	Electrical Engineering
421	Next Generation AMOLED Displays, OLED Lighting and OPV Products Development of Disruptive Technologies to Enable Cost Effective Electronic Component Manufacturing in India	Dr. Debdutta Ray	Electrical Engineering
422	Next Generation AMOLED Displays, OLED Lighting and OPV Products Development of Disruptive Technologies to Enable Cost Effective Electronic Component Manufacturing in India	Dr. Debdutta Ray	Electrical Engineering
423	Next Generation AMOLED Displays, OLED Lighting and OPV Products Development of Disruptive Technologies to Enable Cost Effective Electronic Component Manufacturing in India	Dr. Debdutta Ray	Electrical Engineering
424	Next Generation AMOLED Displays, OLED Lighting and OPV Products Development of Disruptive Technologies to Enable Cost Effective Electronic Component Manufacturing in India	Dr. Debdutta Ray	Electrical Engineering
425	Next Generation AMOLED Displays, OLED Lighting and OPV Products Development of Disruptive Technologies to Enable Cost Effective Electronic Component Manufacturing in India	Dr. Debdutta Ray	Electrical Engineering
426	Demonstration of Solution Processable, Slot-die Coated Organic Photovoltaic Modules with gt8 Efficiency	Dr. Debdutta Ray	Electrical Engineering
427	Advanced Photonic Signal Processing for Future Optical and Wireless Communication Systems	Dr. Deepa Venkitesh	Electrical Engineering
428	Ligo R & D for India	Dr. Deepa Venkitesh	Electrical Engineering
429	Phase Sensitive Amplifiers with novel Dispersion -tailored Fibers	Dr. Deepa Venkitesh	Electrical Engineering
430	Design and Development of Next Generation Photonic Analog to Digital Converters (NG-PADC)	Dr. Deepa Venkitesh	Electrical Engineering
431	Design and Development of Next Generation Photonic Analog to Digital Converters (NG-PADC)	Dr. Deepa Venkitesh	Electrical Engineering
432	Design and Development of SPDT RF MEMS Switches for Ku Band Applications	Dr. Deleep R Nair	Electrical Engineering
433	Development of High Efficiency Motors and Controllers for Electric Vehicles (EVs) such as 2-wheeler (2W), 3-Wheeler (3W) and small 4-Wheeler (4W) Cargo Vehicles used in India	Dr. Devendra Jalihal	Electrical Engineering
434	Development of Atomically Thin Memristive Devices for Neuromorphic Smart Sensor Networks	Dr. Dr. Bhaswar Chakrabarti	Electrical Engineering
435	Nanoelectronics NETWORK for Research and Applications (NNetRA)	Dr. Enakshi Bhattacharya	Electrical Engineering
436	Nanoelectronics Network for Research and Application (NNetRA)	Dr. Enakshi Bhattacharya	Electrical Engineering
437	Building End to End 5G Test Bed in India	Dr. Ganti Radha Krishnan	Electrical Engineering
438	Demodulation of Complex Waveforms	Dr. Ganti Radha Krishnan	Electrical Engineering

439	Design and Development of Polar Encoder and Decoder Hardware Prototype for 5G Testbed	Dr. Ganti Radha Krishnan	Electrical Engineering
440	In Memory Computing Circuits for Deep Neural Network Hardware	Dr. Janakiraman Viraraghavan	Electrical Engineering
441	JC Bose Fellowship	Dr. Jhunjunwala Ashok	Electrical Engineering
442	Centre of Excellence for Decentralized Power Systems	Dr. Jhunjunwala Ashok	Electrical Engineering
443	Interconnected Multi-village Micro-grids	Dr. Jhunjunwala Ashok	Electrical Engineering
444	Integrated Efficient Electric Power Train for Electric Vehicles	Dr. Jhunjunwala Ashok	Electrical Engineering
445	Standalone system electrification of 306 villages in Assam with IIT Madras- Innovative solar-DC Inverterless System	Dr. Jhunjunwala Ashok	Electrical Engineering
446	Center for Battery Engineering (CBE) at TCOE	Dr. Jhunjunwala Ashok	Electrical Engineering
447	Village electrification programme in J&K, using solar DC Inverterless system	Dr. Jhunjunwala Ashok	Electrical Engineering
448	Rural Electrification works in 94 villages in Manipur	Dr. Jhunjunwala Ashok	Electrical Engineering
449	A Localized Microgrid to Power an off Grid Locality	Dr. Jhunjunwala Ashok	Electrical Engineering
450	Rural Electrification Project in Meghalaya (NEEPCO)	Dr. Jhunjunwala Ashok	Electrical Engineering
451	Rural Electrification Project in MANIPUR (MSPDCL)	Dr. Jhunjunwala Ashok	Electrical Engineering
452	UK India Clean Energy Research Institute (UKICERI)	Dr. Kalyan Kumar B	Electrical Engineering
453	Realization of Series Connection of Silicon Carbide (SiC) Devices in Converters with High Frequency Link Bidirectional DC-DC Converter for Grid Interfaces	Dr. Kamalesh Hatua	Electrical Engineering
454	Development of WBG based Integrated Drive System fo Electric Vehicles (evIDS)	Dr. Kamalesh Hatua	Electrical Engineering
455	Design and development of WBG device based high current converters for Industry applications - NaMPET Phase-III	Dr. Kamalesh Hatua	Electrical Engineering
456	Realization of Gallium Oxide based Power Devices	Dr. Kamalesh Hatua	Electrical Engineering
457	Super Resolution Microscopy for Point-of-Care Cancer Diagnosis	Dr. Kaushik Mitra	Electrical Engineering
458	Robust Frequency Converters in Polluted Grids	Dr. Krishna Vasudevan	Electrical Engineering
459	Islanded Operation of Solar PV	Dr. Krishna Vasudevan	Electrical Engineering
460	UI-ASSIST:US-India Collaborative for Smart Distribution System with Storage	Dr. Mahesh Kumar	Electrical Engineering

461	Tools and Processes for Multi-view 3D Display Technologies	Dr. MANSI SHARMA	Electrical Engineering
462	Robotic System for Image Guided, Minimally Invasive Spine Surgery	Dr. Mohanasankar S	Electrical Engineering
463	iQuant : Platform for affordable automated immunodiagnostics Proposal for Technology R&D and Product Development	Dr. Mohanasankar S	Electrical Engineering
464	SPINEROBOT: Towards High-Precision Affordable Spine Surgery	Dr. Mohanasankar S	Electrical Engineering
465	Computational and Experimental Platform for High Resolution Terapixel Imaging of Ex-Vivo Human Brains	Dr. Mohanasankar S	Electrical Engineering
466	Contactless Physiological Monitoring of Newborns in Hospital Settings	Dr. Mohanasankar S	Electrical Engineering
467	Affordable technology solutions to address unmet healthcare needs	Dr. Mohanasankar S	Electrical Engineering
468	Special manpower development program for CHIPS to system designs	Dr. Nagendra Krishnapura	Electrical Engineering
469	16 bit 5MS/s analog to digital converter	Dr. Nagendra Krishnapura	Electrical Engineering
470	Investigations in Topological Codes, Quantum Fractal Codes and Non-Abelian Color Codes with a View to Fault Tolerant Quantum Computing	Dr. Pradeep Sarvepalli	Electrical Engineering
471	Dynamic Game Theoretical Methods in the Control of Multi-agent Systems with Inequality Constraints	Dr. Puduru Viswanadha Reddy	Electrical Engineering
472	Impulse Control Strategies in Differential Games with Applications in Cyber Security	Dr. Puduru Viswanadha Reddy	Electrical Engineering
473	Optimization and Control of Complex Dynamical Systems	Dr. Rachel	Electrical Engineering
474	Underwater Image Processing and Computer Vision	Dr. Rajagopalan A N	Electrical Engineering
475	Development of Accurate and Affordable Surgical Navigation System	Dr. RAMYA BALACHANDRAN	Electrical Engineering
476	Development of Techniques to Improve the Targeting Accuracy of Surgical Navigation Systems	Dr. RAMYA BALACHANDRAN	Electrical Engineering
477	Development of Polymer Nano-composites for EHVDC Lines and Diagnostics Adopting Laser Induced Breakdown Spectroscopy (LIBS)	Dr. Sarathi R	Electrical Engineering
478	Automated Wire Explosion Process for Nano Particles Production or its Use as Rocket Propellant and for Transformer Insulant	Dr. Sarathi R	Electrical Engineering
479	Identification, Classification and Localization of Incipient Discharges in Transformers Adopting Multi Sensor Fusion Technique	Dr. Sarathi R	Electrical Engineering
480	Investigation on Partial Discharge Characteristics and Dissolved Gas Analysis of Punga Oil	Dr. Sarathi R	Electrical Engineering
481	Energy Efficient Software - Defined Wide Range Wireline Transceiver	Dr. Saurabh Saxena	Electrical Engineering
482	Energy - Efficient & Wide - range 15Mb/s-1.5Gb/s SERDES	Dr. Saurabh Saxena	Electrical Engineering

483	Detection and Diagnosis of Intentional Electromagnetic Interference Attack on Critical Network	Dr. Saurabh Saxena	Electrical Engineering
484	Miniaturized Wideband Analog Phase Modulator using Phase Locked Loop	Dr. Saurabh Saxena	Electrical Engineering
485	A Low - Power 8-16 Gb/s/pin Full - duplex Wire line Transceiver	Dr. Saurabh Saxena	Electrical Engineering
486	Optical Communication with Spatial Modes of Light-BRICS	Dr. Shanti Bhattacharya	Electrical Engineering
487	Shaped Light for Novel Studies in Imaging and Measurement	Dr. Shanti Bhattacharya	Electrical Engineering
488	Development of Circuit Building Blocks Using Unique Combination of Solution Based Organic Semiconductor Technology and Microelectronic Technology	Dr. Soumya Dutta	Electrical Engineering
489	Design of Optimal Signal Constellation and Detection Algorithm for Energy Efficient Millimeter Wave Radio Units	Dr. Srikrishna B	Electrical Engineering
490	Microwave Inverse Scattering for Breast Cancer Detection	Dr. Uday K Khankhoje	Electrical Engineering
491	3D Electromagnetic Scattering Tools for Lunar Subsurface Studies	Dr. Uday K Khankhoje	Electrical Engineering
492	Multi-Linguality in Speech Technologies	Dr. Umesh S	Electrical Engineering
493	Automatic Speech Recognition in Indian English, Tamil, Hindi, and Text to Speech Synthesis for conversational speech in Indian languages - CoE	Dr. Umesh S	Electrical Engineering
494	POWER: Platform for Open WLAN Experimentation and Research	Dr. Venkatesh R	Electrical Engineering
495	Implementation Conditions for Frugality in Innovation Processes	Dr. Balakrishna Rao	Engineering Design
496	A Multi-modal Pre-clinical Imaging System - Combining X-ray, Fluorescence and Ultrasound	Dr. Ganapathy Krishnamurthi	Engineering Design
497	Studies on selective laser melting of aluminium alloys for rapid prototyping of RF modules	Dr. Jayaganthan	Engineering Design
498	Design and Development of RF Sensors for Identification and Localization of Incipient Discharges in GIS	Dr. Kavitha Arunachalam	Engineering Design
499	Endocavitary Microwave Applicator for Integrated Hyperthermia and Radiotherapy Treatment of Locally Advanced Cervical Cancer	Dr. Kavitha Arunachalam	Engineering Design
500	Design of Antenna for 5G Communication	Dr. Kavitha Arunachalam	Engineering Design
501	Development of Phased Array Microwave Hyperthermia System	Dr. Kavitha Arunachalam	Engineering Design
502	Standardization in Assessment of Fetal Ultrasound Routine Scans with Computational Modelling and Machine Learning	Dr. Krishnakumar R	Engineering Design
503	Fabrication of Laser-Assisted SiC Thin Film Energy Storage and Conversion Devices	Dr. Nilesh Jayantilal Vasa	Engineering Design
504	Stakeholder-driven Decision Support Cyberinfrastructure for Empowering Rural Communities to Plan for Water-Agro-Energy-Climate Resiliency	Dr. Palaniappan Ramu	Engineering Design

505	High Fidelity Surface Reconstruction from Noisy Point Sets with Topological Guarantee	Dr. Ramanathan M	Engineering Design
506	Massively Parallel High Throughput Single Cell Intracellular Delivery Using Light Pulses	Dr. Tuhin Subhra Santra	Engineering Design
507	Managing Covid-19 in India's Cities: reshaping People's Everyday Lives in Poorer Urban Neighbourhoods	Dr. Binitha V Thampi	Humanities & Social Sciences
508	Memory Studies and Anglo-Indian Identities: The Digital Archive Project	Dr. Merin Simi Raj	Humanities & Social Sciences
509	Centre for Technology and Policy (CTaP) - Phase II	Dr. Muraleedharan V R	Humanities & Social Sciences
510	Vulnerability of coastal infrastructure due to climate change in east coastal zones of India: An in	Dr. Sudhir Chella Rajan	Humanities & Social Sciences
511	PERI-CENE (Peri-urbanization & Climate-Environment Change)	Dr. Sudhir Chella Rajan	Humanities & Social Sciences
512	Indo-German Centre for Sustainability (IGCS)	Dr. Krishna Vasudevan	Indo-German Centre for Sustainability
513	Indo-German Centre for Sustainability (IGCS)	Dr. Krishna Vasudevan	Indo-German Centre for Sustainability
514	International Centre for Clean Water	Dr. Pradeep T	International Centre for Clean Water
515	Creation of ICCW Infrastructure	Dr. Pradeep T	International Centre for Clean Water
516	National Facility of Cryo-Electron Microscopy: Remotely Operable, 24x7 for Academia and Industry	Dr. Pradeep T	International Centre for Clean Water
517	Cryo-EM - SASTRA	Dr. Pradeep T	International Centre for Clean Water
518	Cryo-EM - MRF	Dr. Pradeep T	International Centre for Clean Water
519	Cryo-EM - RGCB	Dr. Pradeep T	International Centre for Clean Water
520	Cryo-EM - VIT	Dr. Pradeep T	International Centre for Clean Water
521	Engineering Applications of Designer Nanoparticle Assemblies	Dr. Pradeep T	International Centre for Clean Water
522	Development of Real-time, Adaptive Intelligent Mechanisms for Monitoring and Control of Complex Industrial Processes within Industrial IoT Frameworks	Dr. Amit R K	Management Studies
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524	Readiness Assessment of Cloud-based Manufacturing Systems (RACM)	Dr. Amit R K	Management Studies
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527	Game-based Interactive Simulator for Training in Cyber Security	Dr. Rangaraja Sundarraj P	Management Studies
528	Unraveling the Problems, and Supportive Factors and their Impact on the Development of Rural Women Entrepreneurs-A State-level Comparative Study	Dr. Rupashree Baral	Management Studies
529	Financial support for Innovation, Venturing and Entrepreneurship in India Network (IVEIN) for Publishing of Two Editions (in three years ending 2022) of "India Innovation, Venturing and Entrepreneurship Report"	Dr. Thillai Rajan A	Management Studies
530	Research Round Table for iVEIN Report	Dr. Thillai Rajan A	Management Studies
531	Development and Introduction of a New Course Curriculum Based on Universal Human Values: An Experimental Study in Higher Education in South India	Dr. Vijayalakshmi V	Management Studies
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550	Some Problems on Completely Positive (CP) Maps and Co-completely Positive (Co-CP) Maps between $C^*$ -algebras- SERB-Matrices	Dr. Sriram B	Mathematics
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552	Finite element methods for inverse problems	Dr. Thamban Nair M	Mathematics
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554	Analyses of Grinding Performance and Ground Surface Integrity in High MRR Precision Grinding by Indigenously Development Brazed Diamond Wheels Having Patterned Grit Distribution	Dr. Amitava Ghosh	Mechanical Engineering
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556	Toward higher efficiencies and lower emissions using Indian-Origin biofuels: Developing a predictive CFD model with well-validated reduced combustion kinetics for device-scale applications	Dr. Anand K	Mechanical Engineering
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558	Development of A 3 Colour SLIPI Technique for Spray Characterization	Dr. Anand T N C	Mechanical Engineering
559	Tailoring Heat Treatment and Microstructures in Metal Based Additive Manufactured (AM) Parts	Dr. Anil Meena	Mechanical Engineering
560	Development of Diamond Coating Technology for Tribological Performance of Components for Defence Applications	Dr. Arunachalam N	Mechanical Engineering
561	HFCVD Diamond Coating for wear Resistance and Tribological Applications	Dr. Arunachalam N	Mechanical Engineering
562	Experimental and numerical studies on improvised combustor liner cooling methodology	Dr. Arvind Pattamatta	Mechanical Engineering
563	Enhancement of Boiling and condensation in Minichannels through Durable Wettability-patterned Surfaces	Dr. Arvind Pattamatta	Mechanical Engineering
564	Experimental Studies on the Performance Enhancement of Pulsating Heat Pipe used for the Application of Microprocessor cooling	Dr. Arvind Pattamatta	Mechanical Engineering
565	Microfluidic Platform for Continuous Monitoring of Gasotransmitters for early level management of Systemic Inflammatory Response Syndrome(SIRS) in Trauma Patients	Dr. Ashis Kumar Sen	Mechanical Engineering
566	Understanding Acoustofluidics Based Manipulation of Fluid Interfaces and particles in Microfluidics	Dr. Ashis Kumar Sen	Mechanical Engineering
567	Understanding Behavior of Droplets and Liquid Interfaces under a Magnetic Field	Dr. Ashis Kumar Sen	Mechanical Engineering
568	Investigation of the Effects of Compressibility and Rarefaction on Turbulent Flows	Dr. Balaji Srinivasan	Mechanical Engineering
569	Multi-satellite Radiance Assimilation to Improve Short to Medium Range Forecasts of the Indian Monsoon	Dr. Chakravarthy Balaji	Mechanical Engineering
570	Advanced Acoustic Sound Quality Engineering for Motorcycles	Dr. Chandramouli P	Mechanical Engineering

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572	Unsteady Forces on Cylinders under Cavitation	Dr. Dhiman Chatterjee	Mechanical Engineering
573	Design and Development of Contact Fatigue Test Facility for Bearings used in High Speed Railways and Electric Vehicles	Dr. Gnanamoorthy R	Mechanical Engineering
574	Customized Multi Material Product Design and Development with 3D Network Metal Based Composites Using Low Cost Additive Manufacturing Route	Dr. Gnanamoorthy R	Mechanical Engineering
575	3D Forming of Sheet Metal for Industrial Applications	Dr. Hariharan	Mechanical Engineering
576	3D Forming of Sheet Metal for Industrial Applications	Dr. Hariharan	Mechanical Engineering
577	Electroplastic Deformation for Enhanced Formability	Dr. Hariharan	Mechanical Engineering
578	A Multi-scale Framework for Designing Green Tyres	Dr. Krishnakannan	Mechanical Engineering
579	Abdul Kalam Technology Innovation National Fellowship	Dr. Krishnan Balasubramanian	Mechanical Engineering
580	Development and evaluation of an in-situ high -temperature guided ultrasonic wave based corrosion-under-insulation detection system for nuclear power plant pipes(nGUMPS)	Dr. Krishnan Balasubramanian	Mechanical Engineering
581	Simulation Assisted Automatic Defect Recognition (ADR) for Digital X-ray Image Analysis for Missile Components	Dr. Krishnan Balasubramanian	Mechanical Engineering
582	Development of Ultrasonic Waveguide Sensors for the Measurement of Wide Ranges of Temperature and Rheology Potentially Simultaneously	Dr. Krishnan Balasubramanian	Mechanical Engineering
583	Auto Component Quality Improvement through Digital Manufacturing using Robotic Automated Defect Recognition based NDT	Dr. Krishnan Balasubramanian	Mechanical Engineering
584	Fibre Optic based Passive Ultrasonic Structural Health (PUSH) Monitoring System for Naval Dome Structures	Dr. Krishnan Balasubramanian	Mechanical Engineering
585	Data Driven, Chemical Kinetically Consistent and Efficient Reaction Mechanism Reduction Strategies for Computational Combustion	Dr. Krithika Narayanaswamy	Mechanical Engineering
586	Development of a Small GDI Optical Engine for Flow and Combustion Studies	Dr. Mayank Mittal	Mechanical Engineering
587	Precision Nanoengineered, Wettability Patterned Surfaces with Potential Applications in Energy and Healthcare	Dr. Pallab Sinha Mahapatra	Mechanical Engineering
588	Performance Improvement and GUI Development of PINAK CODE	Dr. Pallab Sinha Mahapatra	Mechanical Engineering
589	Development of Wettability-patterned Soft Surfaces for Enhanced Condensation	Dr. Pallab Sinha Mahapatra	Mechanical Engineering
590	A Non-linear Viscoelastic Constitutive Model for Solid Propellants and Studies on Effects of Voids	Dr. Parag Ravindran	Mechanical Engineering
591	Submersible ROV for on-line inspection of storage tanks	Dr. Prabhu Rajagopal	Mechanical Engineering
592	Development of Autonomous Surface Vehicle (ASVs) for Mapping Marine Environment and Water Quality	Dr. Prabhu Rajagopal	Mechanical Engineering

593	Alcheme Robotic Solutions for Septic Tank interventions	Dr. Prabhu Rajagopal	Mechanical Engineering
594	Concepts for Quantum Phononics	Dr. Prabhu Rajagopal	Mechanical Engineering
595	Concepts for Quantum Phononics	Dr. Prabhu Rajagopal	Mechanical Engineering
596	Desiccant Solar Still	Dr. Prakash Maiya M	Mechanical Engineering
597	DST - NFTDC Centre for Materials & Energy Storage Platforms - H2	Dr. Prakash Maiya M	Mechanical Engineering
598	Residential Building Energy Demand Reduction in India (RESIDE)	Dr. Prakash Maiya M	Mechanical Engineering
599	Performance Enhancement of CO2 Refrigeration System with Thermal Energy Storage (TES) for Indian Dairy Industry (DAIRY-TES)	Dr. Prakash Maiya M	Mechanical Engineering
600	Desiccant Solar Still	Dr. Prakash Maiya M	Mechanical Engineering
601	Development of Fuel Flex Microturbine for Clean Power	Dr. Prasad B V S S S	Mechanical Engineering
602	Tip gap mechanism in turbines	Dr. Prasad B V S S S	Mechanical Engineering
603	Unsteady flow physics and loss mechanisms and shock boundary layer interactions in turbine flow field	Dr. Prasad B V S S S	Mechanical Engineering
604	National Centre for Clean Coal Research and Development - WP1	Dr. Prasad B V S S S	Mechanical Engineering
605	National Centre for Clean Coal Research and Development	Dr. Prasad B V S S S	Mechanical Engineering
606	Experimental and Numerical Studies of Accidental Multiple Pool Fires Occurring in Chemical Process Industries	Dr. Raghavan V	Mechanical Engineering
607	Development of a Small Direct Injection Spark-ignition (DISI) Engine for Conventional and Hybrid Applications Running on Gasoline and Alternative Fuels	Dr. Ramesh A	Mechanical Engineering
608	Development of an Electronically Controlled High Performance Hot Surface Ignition Engine Running on methanol For Automotive Applications	Dr. Ramesh A	Mechanical Engineering
609	A Novel Biofuel Based Twin Injector Multi-mode Genset Engine for High Performance and Low NOx Emissions - Development and Demonstration	Dr. Ramesh A	Mechanical Engineering
610	Development and validation of a cost-effective hybrid electric drive solution for small two wheelers for reducing CO2 emission (HERCET)	Dr. Ramesh A	Mechanical Engineering
611	Development of a prototype for dismantling time expired ammunitions with abrasive water	Dr. Ramesh Babu N	Mechanical Engineering
612	Improving Tirbological Performance of Piston Ring Cylinder Liner System Using DLC Coated Textured Surface	Dr. Ramkumar P	Mechanical Engineering
613	Estimation of Drucker - Prager Cap Plasticity Parameters for Continuum Simulation of the Ceramic Breed	Dr. Ratna Kumar Annabattula	Mechanical Engineering
614	Photoresponsive Actuation of Thin Polymer Films: Modeling and Experiments	Dr. Ratna Kumar Annabattula	Mechanical Engineering

615	Closed Loop Control and Block Piercing Method for EPS CNC Profile Cutting Machine	Dr. Sathyan S	Mechanical Engineering
616	Harnessing the Potential of Renewable Energy (Solar/Wind ) for Sustainable Building Energy Management through Compressed Air Energy Storage	Dr. Shaligram Tiwari	Mechanical Engineering
617	Gas-atomization System for Producing Steel Powders	Dr. Shamit Bakshi	Mechanical Engineering
618	Gas-atomization System for Producing Steel Powders	Dr. Shamit Bakshi	Mechanical Engineering
619	Thermo-fluid Dynamic Measurement of Evaporating Film on a Heated Surface	Dr. Shamit Bakshi	Mechanical Engineering
620	Multiscale Studies of Compression-after-impact in Fiber Reinforced Composites	Dr. Shankar Krishnapillai	Mechanical Engineering
621	Heat and Mass Transfer Across Liquid-vapor Interface in a Pressurized Cryogenic Tank with and without Sloshing	Dr. Shyama Prasad Das	Mechanical Engineering
622	Unsteady Flow Physics and Loss Mechanisms in small engine axial compressors	Dr. Shyama Prasad Das	Mechanical Engineering
623	Loss reduction in annular S-shaped ducts	Dr. Shyama Prasad Das	Mechanical Engineering
624	A Novel Machine Vision Based In-situ IoT Solution for Characterization of Abrasive Waterjet Milled Surfaces in Aerospace Alloys	Dr. Sivasrinivasu Devadula	Mechanical Engineering
625	Design and Development of an Advanced Carbon Fiber 3D Printable Printer	Dr. Soundarapandian S	Mechanical Engineering
626	Development and Demonstration of Algorithms for Ingot Handling System	Dr. Sourav Rakshit	Mechanical Engineering
627	Experimental investigation of liquid atomization in slinger combustor for small gas turbine engines	Dr. Srikrishna Sahu	Mechanical Engineering
628	Development of Advanced Water Washing System for Compressor Blade Cleaning for Gas Turbine Efficiency Improvement	Dr. Srikrishna Sahu	Mechanical Engineering
629	Development of Advanced Water Washing System for Compressor Blade Cleaning for Gas Turbine Efficiency Improvement	Dr. Srikrishna Sahu	Mechanical Engineering
630	Sustainable technological solutions for energy efficiency in jaggery industry (STEEJ)	Dr. Srinivas Reddy K	Mechanical Engineering
631	Design of Magneto Rheological Damper for Vehicular Applications	Dr. Sujatha C	Mechanical Engineering
632	Development of Cost Effective Magneto-Rheological (MR) Fluid Damper in Two Wheelers and Four Wheelers Automobile to Improve Ride Comfort and Stability	Dr. Sujatha C	Mechanical Engineering
633	Affordable Standing Wheelchair	Dr. Sujatha Srinivasan	Mechanical Engineering
634	VAJRA Visiting Faculty - Dr. Marcus Pandy	Dr. Sujatha Srinivasan	Mechanical Engineering
635	Abdul Kalam Technology Innovation National Fellowship	Dr. Sujatha Srinivasan	Mechanical Engineering
636	Modular Portable Motorized Wheelchair with an Alternate Control Mechanism	Dr. Sujatha Srinivasan	Mechanical Engineering

637	Touch REHAB	Dr. Sujatha Srinivasan	Mechanical Engineering
638	Customized, Demand Driven Convergent Water Solutions to Address Prevalent and Emerging Water Challenges in Mission Mode in Narippaiyur Village, Ramanathapuram District, Tamil Nadu	Dr. Sundararajan T	Mechanical Engineering
639	Development of an innovative process to fabricate ultra-fine grained bimetallic thin sheets for microforming applications	Dr. Sushanta Kumar Panigrahi	Mechanical Engineering
640	Packed Bed Gasification of Biomass with O <sub>2</sub> /CO <sub>2</sub> /Steam Mixtures	Dr. Varunkumar S	Mechanical Engineering
641	Development of a Mixed Refrigerant J-T Cryocooler	Dr. Venkatarathnam G	Mechanical Engineering
642	Fundamental Study of Organic Solvent Transport in Nanochannels for Energy and Environment Applications	Dr. Vishal Nandigana	Mechanical Engineering
643	Fundamental Study of Polar Liquids inside Slit-like Nanochannels	Dr. Vishal Nandigana	Mechanical Engineering
644	Microwave Assisted Reduction of iron ore/Slimes: An Innovative and Cost Effective Approach for Steel Production	Dr. Ajay Kumar Shukla	Metallurgical & Materials Engineering
645	Estimation of Physical Properties of Slag and Investigation of Slag Morphology During Solidification and Development of Mathematical Model to Estimate Heat Transfer Coefficient in Continuous Casting Molds	Dr. Ajay Kumar Shukla	Metallurgical & Materials Engineering
646	Ionic Transport Properties of Nanocrystalline High Entropy Oxides	Dr. Bhattacharya S S	Metallurgical & Materials Engineering
647	National Centre for Clean Coal Research and Development - WP8	Dr. Gandham Phanikumar	Metallurgical & Materials Engineering
648	National Centre for Clean Coal Research and Development - WP6	Dr. Gandham Phanikumar	Metallurgical & Materials Engineering
649	Understanding the Evolution of Residual Stress During Repair and Refurbishment of Gas Turbine Components via Laser Additive Manufacturing	Dr. Gandham Phanikumar	Metallurgical & Materials Engineering
650	Alloy Development through Artificial Intelligence (ADAI) - Development of Tool Steel	Dr. Gandham Phanikumar	Metallurgical & Materials Engineering
651	Repository of High Performance Phase-Field Solvers for Microstructure Simulation (MicroSim)	Dr. Gandham Phanikumar	Metallurgical & Materials Engineering
652	Centre of excellence in Iron and Steel Technology(COEXIST)	Dr. Hari Kumar K C	Metallurgical & Materials Engineering
653	Cold Spray Technology Development for Repair and Coating of Aircraft Engine Components	Dr. Kamaraj M	Metallurgical & Materials Engineering
654	Investigation of Tribological and Rolling Contact Fatigue Analysis of AISA 52100 Steel with Micro and Nano Additives Dispersed in Vegetable and Mineral Oil	Dr. Kamaraj M	Metallurgical & Materials Engineering
655	Synthesis and Characterization of ZrO <sub>2</sub> Dispersed Ti, Ti-6Al-4V, Ti-6Al-5V, Ti-6Al-7Nb Composite	Dr. Kamaraj M	Metallurgical & Materials Engineering
656	Development and Tribological Study of Multilayer Nitride Coatings on Surface Modified Co-Cr-Mo Alloy against Cross Linked Polymer Surface in Wet Sliding Environment for Orthopedic Applications	Dr. Kamaraj M	Metallurgical & Materials Engineering
657	Ionogel Electrolyte Membrane Fuel Cell (IEMFC) with Plasma Electrolytic Nitrided (PEN) Metallic Bipolar Plate and Effective Flow Field Design	Dr. Lakshman Neelakantan	Metallurgical & Materials Engineering
658	Development of Liquid Metal Processing Route for Closed Cell Magnesium Foam - DST SERB	Dr. Manas Mukherjee	Metallurgical & Materials Engineering

659	Fabrication of Nanostructured Copper surfaces for Functional Applications	Dr. Manas Mukherjee	Metallurgical & Materials Engineering
660	JC Bose Fellowship	Dr. Murty B S	Metallurgical & Materials Engineering
661	VAJRA Visiting Faculty - Dr.Juergen Eckert	Dr. Murty B S	Metallurgical & Materials Engineering
662	Development of Self-cleaning Coatings on Glass using TiO2 Nano Particles Developed at Indian Rare Earth Ltd.	Dr. Murty B S	Metallurgical & Materials Engineering
663	High Entropy Alloys for High Temperature Aircraft Components	Dr. Murty B S	Metallurgical & Materials Engineering
664	Development of Oxide Dispersion Strengthened Steels for Super Critical Thermal Boilers and Fusion Reactors	Dr. Murty B S	Metallurgical & Materials Engineering
665	Quantum Mechanically Guided Design and Multi-scale Characterisation of Novel, Interface Strengthened Multi-Principal Element Compositionally Complex Alloys	Dr. Murty B S	Metallurgical & Materials Engineering
666	Alloy development for additive manufacturing of prostheses and reconstructive implants (Short name: MetAMeT Metal Additive Medical Technology)	Dr. Murugaiyan Amirthalingam	Metallurgical & Materials Engineering
667	Alloy Development for Additive Manufacturing of Prostheses and Reconstructive Implants	Dr. Murugaiyan Amirthalingam	Metallurgical & Materials Engineering
668	Silver Nanowire-based Transparent and Flexible Tactile and Force Sensors	Dr. Parasuraman Swaminathan	Metallurgical & Materials Engineering
669	Combinatorial Design of Novel Rare-earth Free, High-entropy Based Permanent Magnets	Dr. Pradeep K G	Metallurgical & Materials Engineering
670	Combinatorial Design on Novel, Rare-earth Free Permanent Magnets	Dr. Pradeep K G	Metallurgical & Materials Engineering
671	Friction Stir Processing (FSP) of Al 7075 Alloy and Investigation on Thermal Stability and High Temperature Mechanical properties	Dr. Ranjit Bauri	Metallurgical & Materials Engineering
672	Hierarchically Designed Electrodes of Air Breathing Zinc-ion Batteries	Dr. Ranjit Bauri	Metallurgical & Materials Engineering
673	Processing, Joining and Microstructure Modeling of Net Shaped Casting of Primary Al-Zn-Mg Alloys through an Integrated Computational Materials Engineering (ICME) Approach	Dr. Ranjit Bauri	Metallurgical & Materials Engineering
674	A Novel Integration of TiO2 Nanotubes and Hydrogen Storage Alloy for a Solar-Water based Rechargeable Fuel Cell Battery	Dr. Ranjit Bauri	Metallurgical & Materials Engineering
675	Stress-rupture property evaluation of advanced superalloys for small turbo fan engine (STFE) technologies	Dr. Ravi Sankar K	Metallurgical & Materials Engineering
676	Characterization of selective laser melted Inconel 718 and Ti-6Al-4V	Dr. Ravi Sankar K	Metallurgical & Materials Engineering
677	Tailoring Tantalum Nitrides and Oxy-nitrides & Designing Electrocatalytic Devices for Green Energy	Dr. Ravikumar N V	Metallurgical & Materials Engineering
678	Understanding the Phase Stability of Oxides and Nitrides in the context of fine tuning their Functional Properties - a Combinatorial Approach based on Computations and Experiments	Dr. Ravikumar N V	Metallurgical & Materials Engineering
679	Polymer Derived Zr-B-C based Rare Earth Metal Containing High Temperature Resistant Coatings For Space Applications	Dr. Ravikumar N V	Metallurgical & Materials Engineering
680	Physical and Mathematical modelling of Centrifugal Atomization Process for Powder Production	Dr. Sabita Sarkar	Metallurgical & Materials Engineering

681	Investigation of Novel High Temperature Shape Memory Alloys for Critical Applications	Dr. Sampath V	Metallurgical & Materials Engineering
682	Fatigue Life Prediction Methodology for Additive Manufactured High Temperature Nickel Alloys with Process-Structure-Property Considerations	Dr. Sampath V	Metallurgical & Materials Engineering
683	Electrosprayed Nano Structures for the Sustained Release of Anti-Glaucoma Drugs	Dr. Sampathkumar T S	Metallurgical & Materials Engineering
684	Nanostructured biomimetic coatings on Ti alloys for enhanced biofilm resistance	Dr. Sampathkumar T S	Metallurgical & Materials Engineering
685	Validating Novel Eggshell Derived Bone Regenerative Bioceramics	Dr. Sampathkumar T S	Metallurgical & Materials Engineering
686	National Centre for Clean Coal Research and Development - WP9	Dr. Sankaran S	Metallurgical & Materials Engineering
687	Stability of Microstructure under Thermal and Stress Conditions in Alloy718 Plus	Dr. Sankaran S	Metallurgical & Materials Engineering
688	Rational Design of Non-stoichiometric Transition Metal Compounds	Dr. Satyesh Kumar Yadav	Metallurgical & Materials Engineering
689	Non-destructive, atomically resolved off-stoichiometry determination within nanostructures using intensity distribution of Scanning Transmission Electron Microscopic (STEM) images	Dr. Somnath Bhattacharyya	Metallurgical & Materials Engineering
690	High temperature erosion damage characterization of downstream components by particle erosion testing	Dr. Srinivasa Rao Bakshi	Metallurgical & Materials Engineering
691	In-situ experimental and numerical studies of abnormal grain growth and twinning during annealing of cold worked nickel	Dr. Subramanya Sarma V	Metallurgical & Materials Engineering
692	Enhancement of Creep Rupture, Hot Corrosion and Liquation Cracking Resistance of Alloy 617M through Grain Boundary Engineering	Dr. Subramanya Sarma V	Metallurgical & Materials Engineering
693	High Entropy Alloys for High Temperature Aircraft Components - (For Industry)	Dr. Subramanya Sarma V	Metallurgical & Materials Engineering
694	Oxynitride-composites Based Low Weight Supercapacitor Unit: Materials Enhancement and Device Development	Dr. Tiju Thomas	Metallurgical & Materials Engineering
695	Fenton-process Adapted for Deactivation of Antimicrobial Resistant Genes and Antibiotic Removal using Passivation-bypassed Fe-alloy, Rate-controlled using Photo-Activity	Dr. Tiju Thomas	Metallurgical & Materials Engineering
696	Non-noble Plasmonics and BaTaO <sub>2</sub> -xNy/CuO Quantum Dot Heterostructure based Photocatalysts for Tandem Grey Water Reactors	Dr. Tiju Thomas	Metallurgical & Materials Engineering
697	Transsition	Dr. Tiju Thomas	Metallurgical & Materials Engineering
698	Graphene-based composite design and its transport property studies for optimizing readily-printable thermal interface materials (TIM)	Dr. Tiju Thomas	Metallurgical & Materials Engineering
699	Design and Development of Rotating Detonation Wave Engine	Dr. Chakravarthy S R	National Centre for Combustion Research and Development
700	CSIR - Bhatnagar Fellowship Support Scheme	Dr. Chakravarthy S R	National Centre for Combustion Research and Development
701	National Centre for Combustion Research and Development (NCCRD)	Dr. Chakravarthy S R	National Centre for Combustion Research and Development
702	National Facility for Atomic Scale Materials Characterization using Remote Atom Probe Tomography	Dr. Pradeep K G	National Facility for Atomic Scale Materials Characterization



703	Development of a strategy for optimal power production from a 100kW Class Horizontal Axis Tidal Stream Turbines System - (Indo-Korea Joint Programme)	Dr. Abdus Samad	Ocean Engineering
704	Optimization of Wave Energy System - A Primitive Model for Indian Coastal Lines	Dr. Abdus Samad	Ocean Engineering
705	Experimental Investigations and Parametric Optimization of Spherical Helical Free Flow Hydro-Kinetic Water Turbines using Towing Tank Tests	Dr. Abdus Samad	Ocean Engineering
706	Optimization of Design Parameters of a Green Energy Double Helical Two Blade Hydrofoil Hydrokinetic Turbines Based on Water Flume Tests and Validation by Deployment at the Sites	Dr. Abdus Samad	Ocean Engineering
707	Novel air filter to suppress viral load in confined space	Dr. Abdus Samad	Ocean Engineering
708	Data Driven Control for Marine Vehicle Maneuvering	Dr. Abhilash Somayajula	Ocean Engineering
709	Hydrodynamics Study and Simulation of Multiple Ship Interactions in Inland Waterways and Shallow Wa	Dr. Ananthkrishnan P	Ocean Engineering
710	Numerical and Experimental Study of Water Entry and Exit of Rigid Bodies	Dr. Bhattacharya S K	Ocean Engineering
711	Design, Analysis and Manufacture of Water Jet Propulsion Units for Infantry Combat Vehicle for Ordnance Development Centre	Dr. Jagadeesh Kumar V	Ocean Engineering
712	Low Salinity Water/Surfactant/Nanoparticles Enhanced Oil Recovery for Brownfield Indian Oil Reservoirs Using Microfluidics Experiments	Dr. Jitendra Sangwai	Ocean Engineering
713	Development and Demonstration of Biochemical Enhanced oil Recovery (BcEOR) Technology for Marginal Oil Wells of Western India	Dr. Jitendra Sangwai	Ocean Engineering
714	Experimental Investigation on Janus Nano-displacing Fluid as an Enhanced Oil Recovery Technique	Dr. Jitendra Sangwai	Ocean Engineering
715	Controllability of Ships in Harbour and Navigational Channels	Dr. Krishnankutty P	Ocean Engineering
716	Development of Bio-mimetic Autonomous Underwater Vehicles (BAUV) for Maritime Surveillance (Phase I)	Dr. Krishnankutty P	Ocean Engineering
717	National Technology Centre for Ports, Waterways and Coasts (NTCPWC)	Dr. Murali K	Ocean Engineering
718	Coastal inundation mapping due to extreme events in view of climate change scenarios	Dr. Murali K	Ocean Engineering
719	Effects and adaptation for sea level rise on major coastal infrastructure in India	Dr. Murali K	Ocean Engineering
720	Modeling of the Tide Induced and General Circulation and Sediment Motion of Estimation of Sediment Concentration in Water Column	Dr. Murali K	Ocean Engineering
721	Comprehensive Study of the Maintenance Dredging Requirements of All Major Ports and National Waterw	Dr. Murali K	Ocean Engineering
722	Development of a Customizable 3D Numerical Hydrodynamics and Siltation Tool	Dr. Murali K	Ocean Engineering
723	Common project	Dr. Murali K	Ocean Engineering
724	Shelf Sea and Shelf Break Processes of the Antarctic Margins and the Production of Dense Shelf Water	Dr. Murali K	Ocean Engineering

725	Vortex induced vibration of slender cylindrical structures and cables under wave and current	Dr. Nallayarasu S	Ocean Engineering
726	Development of hazard and risk maps along east coast on India for coastal flooding due to sea level rise	Dr. Nilanjan Saha	Ocean Engineering
727	Climate Change Impacts on Coastal Infrastructure and the Adaptation Strategies	Dr. Sannasiraj S A	Ocean Engineering
728	Climate Change Impacts on Coastal Infrastructure and the Adaptation Strategies-Sub project	Dr. Sannasiraj S A	Ocean Engineering
729	Beach Monitoring	Dr. Sannasiraj S A	Ocean Engineering
730	Potential impact of climate change on extreme waves and wave induced sediment transport, coastal er	Dr. Sannasiraj S A	Ocean Engineering
731	New Concepts of Pile Supported Breakwater with Berthing Facility	Dr. Sannasiraj S A	Ocean Engineering
732	Assessment of Sea Surface Solar Radiation and pCO <sub>2</sub> Fluxes in Coastal and Estuarine Waters using OCM-2/OCM-2 Data	Dr. Shanmugam P	Ocean Engineering
733	Estimation of Heat Content and its variability Depending on the Determining Factors in the Arctic Seas from Multi-mission Satellite and in-situ Observation Data	Dr. Shanmugam P	Ocean Engineering
734	Development of Particulate Organic Carbon (POC) Algorithm in the Water of Bay of Bengal	Dr. Shanmugam P	Ocean Engineering
735	Study of Marine Bioluminescence over North Indian Ocean Region for detection of submerged vessels from remote sensing data	Dr. Shanmugam P	Ocean Engineering
736	Improved Design Perspective for Violent Wave Impacts during Extreme Natural Disaster Events (IDWavImp)	Dr. Sriram V	Ocean Engineering
737	Eco-system based solution as a coastal defense structure for coastal smart cities	Dr. Sriram V	Ocean Engineering
738	Assessment Tool for Assessing the Impact of Ship/ Boat Wake Waves on the Banks and Protection Measu	Dr. Sriram V	Ocean Engineering
739	Experimental and Numerical Modelling of Wave-Vegetation-Structure Interactions (EMOD-WVSIInt)	Dr. Sriram V	Ocean Engineering
740	Prediction of coastal morphological changes due to climate change variation of sea level rise	Dr. Sundar V	Ocean Engineering
741	Inlet Dynamics and Shoal Process-a Complete Numerical, Laboratory and Field Study	Dr. Sundar V	Ocean Engineering
742	Demonstration of Dragflow Dredger for Silt Trap & Shoal Dredging	Dr. Sundaravadelu R	Ocean Engineering
743	Development of Numerical Methods for Calculation of Hydroelastic Responses of Ships in Extreme Sea Conditions	Dr. Suresh Rajendran	Ocean Engineering
744	Development of Guidance and Control Systems for Sea Going Autonomous Surface Vehicles (ASV)	Dr. Suresh Rajendran	Ocean Engineering
745	Development of Numerical and Experimental Model for Unified Seakeeping and Manoeuvring of ships in Seaway	Dr. Suresh Rajendran	Ocean Engineering
746	Advanced Ship Manoeuvring Prediction based on Machine Learning and Artificial Intelligence for Autonomous Ship Navigation	Dr. Suresh Rajendran	Ocean Engineering

747	Technology Development and Demonstration of Micro Bubble Drag Reduction (MBDR) and Manoeuvring of V	Dr. Vijaykumar R	Ocean Engineering
748	Study of Airwake and its Control over Flight Deck of Aircraft Carrier for Safe Aircraft Landing Operations	Dr. Vijaykumar R	Ocean Engineering
749	Van Der Waals Heterostructures for Non Volatile Flash Memory Applications	Dr. Abhishek Misra	Physics
750	Development of Large Area Two Dimensional Layered Quantum Material for Memristor Applications	Dr. Abhishek Misra	Physics
751	Flexible Quantum Light Emitting Devices from van der Waals layered Materials	Dr. Abhishek Misra	Physics
752	Flexible Quantum Light Emitting Devices from van der Waals layered Materials - (Industry Position of the IMPRINT - PH1920738MIMP008913)	Dr. Abhishek Misra	Physics
753	Probing Interstellar and Atmospheric Anions Through Velocity Map Imaging	Dr. Aravind G	Physics
754	An Experimental Investigation of Resonances and Stable Excited States of Interstellar Medium Anions Through Photoexcitation	Dr. Aravind G	Physics
755	Nonclassical resources: From Quantum simulations to incompatibility	Dr. Arul Lakshminarayan	Physics
756	Glass Transition and Turbulence in Active Fluids	Dr. Ashwin Joy	Physics
757	A Novel Paradigm for Strongly Correlated Systems - Ramanujan Fellowship	Dr. Ayan Mukhopadhyay	Physics
758	A Novel Non-Perturbative Approach for Understanding Heavy-ion Collisions	Dr. Ayan Mukhopadhyay	Physics
759	Novel Non-Perturbative Approaches to Strongly Coupled QCD Matter	Dr. Ayan Mukhopadhyay	Physics
760	Development of a Diverse Lab-on-a-chip Platform for Plastic Electronics, Microcatalysis and Biosensing Applications Using Microlithography by Directed Self Assembly Driven by Laser Induced Microbubbles	Dr. Basudev Roy	Physics
761	Rheological studies of activity of the cell membrane, cytoplasm and organelles using new rotational mode of probing in optical tweezers	Dr. Basudev Roy	Physics
762	Quantum Information Technologies with Nitrogen Vacancy and Magnetic Resonance	Dr. Bhallamudi Vidya Praveen	Physics
763	Quantum Emitters based on Atomic Defects in Diamond and 2D Materials	Dr. Bhallamudi Vidya Praveen	Physics
764	Fabrication of polymer based materials for thermoelectric applications	Dr. Dillip Kumar Satapathy	Physics
765	Reprogrammable Polymer Based Soft Actuators	Dr. Dillip Kumar Satapathy	Physics
766	2D semiconductor heterostructure devices for next generation electronics	Dr. DR LAKSHMI GANAPATHI K	Physics
767	Integration of PZT with 2D Layered MoS2 for Low Power Non-Volatile Memory and Broad Band Photodetectors	Dr. DR LAKSHMI GANAPATHI K	Physics
768	Investigation of Effect of Carbon Quantum Dots on Carrier Generation in Organic Semiconductor Thin Films for Photovoltaic Applications	Dr. Jayeeta Bhattacharyya	Physics

769	Physical and Mathematical Modelling of Microtubule-cortex Interaction and the Dynamic of the Mitotic Spindle during Eukaryotic Cell Division	Dr. Manoj Gopalakrishnan	Physics
770	Magnetocaloric and Electrocaloric Properties of 'Ru/Sn/Ti' modified Copper-Zinc Ferrite for Refrigeration, Solid-state Cooling and Energy Storage Applications	Dr. Murugavel P	Physics
771	Network Models for Climate Studies	Dr. Neelima M Gupte	Physics
772	Exploring Magnetic, Magnetocaloric and Magnetoresistive Properties of $Ti(Fe_{1-x}Co_x)_2$ ( $0 < x < 1$ )	Dr. Nirmala R	Physics
773	Thermoelectric Power Studies on Materials Showing Simultaneous Magnetic and Crystal Structural Transitions	Dr. Nirmala R	Physics
774	Emergent Phenomena in Frustrated Magnets and Heusler Materials	Dr. Panchanana Khuntia	Physics
775	Exotic Magnetic Properties and Spin Dynamics of Low Dimensional and Frustrated Quantum Magnets	Dr. Panchanana Khuntia	Physics
776	Network Planning of Secured Quantum Key Distribution Network	Dr. Prabha Mandayam	Physics
777	Setting up Silicon Detector Characterization Facility	Dr. Prafulla Kumar Behera	Physics
778	Surface Dominated Electronic Transport in Lateral and Vertical Two Dimensional Layered Topological Insulator Heterostructures- Ramanujan Fellowship	Dr. Pramoda Kumar Nayak	Physics
779	Multifunctional Plasmonic Nanosystems for Photodynamic Therapy	Dr. Prem B Bisht	Physics
780	Investigation of Spin Hall Magnetoresistance(SMR) in Highly Spin-Orbit Coupled Oxide/Magnetic Insulator Heterostructures -DST SERB	Dr. Ramachandra Rao MS	Physics
781	Development of technology and processes to produce nanomaterials, nanocomposites, nanocoatings, nanolubricants and nanoceramics	Dr. Ramachandra Rao MS	Physics
782	Spin Current Transport Across Antiferromagnetic/Metallic Oxide Interfaces	Dr. Ramachandra Rao MS	Physics
783	Development of High Performance and Low-Cost Boron-Doped Diamond Electrodes for Waste Water Treatment	Dr. Ramachandra Rao MS	Physics
784	Growth and Systematic Characterization of PLD Grown Large Area Ferroelectric PMN-PT Thin Film for Naval Device Worthiness	Dr. Ramachandra Rao MS	Physics
785	Correlated Quantum Materials: Exploring spin transport properties in non-stoichiometric iridium oxide thin films and single crystals	Dr. Ramachandra Rao MS	Physics
786	Development of High Performance and Low-Cost Boron-Doped Diamond Electrodes for Waste Water Treatment	Dr. Ramachandra Rao MS	Physics
787	Development of technology and processes to produce nanomaterials, nanocomposites, nanocoatings, nanolubricants and nanoceramics	Dr. Ramachandra Rao MS	Physics
788	Edge Saturated Si <sub>2</sub> BN Nano-Ribbon as High- Capacity Anode Materials for Next Generation Mg Ion Batteries	Dr. Ranjit Kumar Nanda	Physics
789	Intertwining Crystal and Orbital Symmetries to Explore Novel Nontrivial Electronic Phases	Dr. Ranjit Kumar Nanda	Physics
790	Single crystal growth magnetic, electronic and thermal transport studies of multi-functional materials:oxides, intermetallics and polymers - FIST	Dr. Santhosh P N	Physics

791	Immobilization of calnuc protein on ZnO nanostructures film for biosensor applications	Dr. Santhosh P N	Physics
792	Competing Magnetic Interaction as a Route to Giant Exchange Bias in Layered Perovskite Oxides	Dr. Santhosh P N	Physics
793	Modelling Strong Electron Phonon Interactions in Systems with Emergent Order?	Dr. Shantanu Mukherjee	Physics
794	Indigenous Low-Cost Compact Optical Non-Contact Device for in-situ Characterisation of soft-matter	Dr. Sivarama Krishnan	Physics
795	Scaling Electronic Dynamics in Finite Quantum Systems from Angstrom to Nanoscale	Dr. Sivarama Krishnan	Physics
796	Unravelling Radiation Damage Processes in Biologically Relevant Mesoscopic Systems	Dr. Sivarama Krishnan	Physics
797	Waste Management Technology	Dr. Sivarama Krishnan	Physics
798	Exploring Photocatalytic and Photovoltaic Properties of Dimensionally Tuned, Vertically Aligned BiFeO <sub>3</sub> Nanorods and Heterostructures	Dr. Somnath Chanda Roy	Physics
799	Investigating the Observational Imprints of Non-Trivial Inflationary Dynamics	Dr. Sriramkumar L	Physics
800	Primordial black holes and secondary gravitational waves from bouncing scenarios	Dr. Sriramkumar L	Physics
801	Bolometer based Millimeter Wave Sensing for the Development of Microwave Camera	Dr. Subramanian V	Physics
802	Whispering Gallery Enabled Light Scattering: Achieving Enhanced Efficiency in Perovskite Quantum dot Sensitized Mesoporous Metal Oxide Whisperonic Solar Cells	Dr. Sudakar Chandran	Physics
803	Sn Integrated 3D, Porous Carbon based Scaffolds as High Capacity Anode for Sodium-ion Batteries	Dr. Sudakar Chandran	Physics
804	Pairing in neutron-star matter with renormalization-group based low-momentum interactions	Dr. Sunethra Ramanan	Physics
805	Quantum Chaos and Many-Body Phenomena in the Light of Semi-classics and Quantum Information Theory	Dr. VAIBHAV MADHOK	Physics
806	Projective Symmetry Group Classification of Quantum Spin Liquids and Spin Nematics for Systems with Arbitrary Spin	Dr. Yasir Iqbal	Physics
807	Keldysh Renormalization Group for Quantum Spin Liquids	Dr. Yasir Iqbal	Physics
808	Numerical Investigations of Quantum Spin Liquids in SU (N) Antiferromagnetic Models	Dr. Yasir Iqbal	Physics
809	PS - CDISHA Management Fund	Dr. Kamakoti V	Pratap Subrahmaniam Centre for Digital Intelligence and Secure Hardware Architecture
810	Robert Bosch Centre for Data Science and Artificial Intelligence (RBC-DSAI)	Dr. Ravindran B	Robert Bosch Centre for Data Science and Artificial Intelligence
811	Course on Technology and Management	Dr. Ravindran B	Robert Bosch Centre for Data Science and Artificial Intelligence
812	Development and Testing of Portable Kiln of 1 tonne capacity for Charcoal Production from Prosopisjuliflora	Dr. Abhijit Deshpande P	RuTAG

813	Design and Development of Retrofit Solution for Fruits and Vegetable Vending Cart	Dr. Abhijit Deshpande P	RuTAG
814	DST Solar Energy Harnessing Centre - PV Domain (TWP) - Sub Project	Dr. Jatindra Kumar Rath	Solar Energy Harnessing Centre
815	DST Solar Energy Harnessing Centre - PV Domain (RWP) - Sub Project	Dr. Jatindra Kumar Rath	Solar Energy Harnessing Centre
816	PV - RWP - B	Dr. Kothandaraman Ramanujam	Solar Energy Harnessing Centre
817	DST Solar Energy Harnessing Centre	Dr. Ramachandra Rao MS	Solar Energy Harnessing Centre
818	DST Solar Energy Harnessing Centre - Solar Fuels - Sub Project	Dr. Ranga Rao G	Solar Energy Harnessing Centre
819	DST Solar Energy Harnessing Centre - Energy Storage Domain - Sub Project	Dr. Sreenivas Jayanti	Solar Energy Harnessing Centre
820	DST Solar Energy Harnessing Centre - Thermal - Sub Project	Dr. Sundararajan T	Solar Energy Harnessing Centre
821	SAIF DST Plan - Phase III	Dr. Bhattacharya S S	Sophisticated Analytical Instrumentation Centre
822	SAIF DST Plan - Phase IV (COVID)	Dr. Bhattacharya S S	Sophisticated Analytical Instrumentation Centre
823	State Health Systems Resource Centre (SHSRC)	Dr. Muraleedharan V R	State Health Systems Resource Centre