

Project ID	Project Title	Funded By
IMURA1167	Development of single atom and cluster catalysts for photothermal cracking of ammonia at low temperature.	BASF Funded PhD Project
IMURA1247	AI/ML in Next-Generation wireless networks	Department of Telecommunication Funded PhD Project
IMURA1253	Threat Detection and Mitigation using AI for Enhanced Cybersecurity	Department of Telecommunication Funded PhD Project
IMURA1254	Development of AI Powered Advanced Wind Power Plant Controller	Industry Funded
IMURA1255	Stability of Inverter Based Resources (Wind Power Plant) Under Weak Grid Conditions	Industry Funded
IMURA1256	Cybersecurity of Wind Power Plant	Industry Funded
IMURA1257	Developing Simulation tools for multiphase flow condition focus on water in steam & condensate phases.	Industry Funded
HSS1180	Caste, Technology and Social Reproduction of Labour: A View from the Margins	
HSS1181	Ethnic/Caste Boundary Breaking: Identity, Status, and Education in Inter-caste Marriages	
HSS1222	The effect of sleep deprivation on the interaction between cognition and emotion.	
HSS1236	Identity, Migration, and Social Cohesion in Northeast India's Borderlands: A Comparative Study	
ID00687	Sustainable design solutions for Agriculture practices in India	
ID00897	Preventing Sexual Harassment in Indian Public Transport Spaces through Gender-Sensitive Co-Design with Women and Girls	
ID00945	Bicycle logistics and mobility in India and Australia	
ID01059	Accessibility solutions for healthcare emergencies for rural areas	
ID01060	Emergency response mobility system for fire fighting in high density city situations	
IMURA0832	Ultrafast dynamics in assemblies of nanomaterials	
IMURA0901	Simulating polymer dynamics in a crowded nucleus	
IMURA0919	Stubborn and persistent Child Malnutrition in India	
IMURA0935	Fatigue Characteristics of Friction Stir Processed Magnesium Alloy	
IMURA0948	Distributed Algorithms for Mixed Integer Convex Optimization	
IMURA0970	Experimental and modeling studies of 2D/2D layered semiconductor heterointerfaces	
IMURA1013	Spin orbit torques using 2D materials and heterostructures	
IMURA1052	Role of local structure in the mechanical properties of disordered colloidal particle assemblies and nanocomposites	
IMURA1071	Development of Photo-Asymmetric Desymmetrization Reactions via C-H Functionalization	
IMURA1072	Asymmetric palladium catalyzed C-H functionalization of benzyl acetic acid derivatives via photocatalysis.	
IMURA1076	Rheological design of biopolymeric food thickeners to make swallowing easier	
IMURA1077	Smart Head Impact Monitoring in Non-helmeted Sports	
IMURA1085	Ferroelectric thin films for Photoelectrochemical Hydrogen Production	
IMURA1096	Scalable Algorithms for Structured Optimization Problems	
IMURA1102	Design and Development of Machine Learning based Novel Control Schemes for Stable Grid-Forming Operation of Type-4 Wind Farms	
IMURA1109	Integrated study of landslide using ambient seismic noise continuous monitoring, remote sensing and geomechanical methods	
IMURA1112	Understanding earthquakes triggered by landslides	
IMURA1134	Advancing Peptide-Based Biomaterials: Integrating Machine Learning, Molecular Dynamics, and Biophysical Experiments	
IMURA1142	Computational Modeling of Atomization and Breakup of Superheated Sprays	
IMURA1145	Interface engineering in 2D ferroelectrics for neuromorphic applications	
IMURA1147	Agent based large scale transport demand model for Indian cities	
IMURA1148	Video Traffic Detection and Adaptive Traffic Control System	
IMURA1149	Friction stir metal deposition: Additive manufacturing with waste metal	
IMURA1152	Dynamic Mechanisms for Skill Elicitation Using Reputation	
IMURA1164	Computational Fluid Dynamics (CFD) of turbulent flows containing particles and polymers	
IMURA1172	Antimicrobial edible films: Exploring Synergy with Bismuth Compounds and Manuka Honey	
IMURA1177	Sticky Polymers in Flow	
IMURA1185	Explainability, Interpretability of deep learning models via the lens of discreteness of deep neural networks	
IMURA1189	Mechanism Design for Smart Energy Grids	
IMURA1191	Development of stronger and tougher laser-cladded rails	
IMURA1192	Data Science and AI Techniques for Signal/Image Reconstruction from Samples at Unknown Locations	
IMURA1194	Optimal coordinating mechanisms in agricultural supply chain to reduce inefficiencies through policy interventions.	
IMURA1195	High-performance electrocatalysts for CO ₂ reduction and O ₂ evolution reactions using advanced multiscale modelling and AI	
IMURA1197	Essays on Sovereign Green Bond Markets	
IMURA1198	Developing an integrated computational model to study structure and dynamics of actively driven biopolymers.	
IMURA1199	Development of Bio-Inspired Heterogeneous Catalysts for Biomass-Derived Feedstock Valorisation to High-Value Chemicals and Fuels	
IMURA1200	Flight Test Platform and a Methodology for Constructing Control-Oriented Digital Twins of Flapping-Wing Aircraft	
IMURA1204	Understanding cloud microphysical processes using direct numerical simulations and observations	
IMURA1212	Geophysical Characterization of Proterozoic Orogenic Terrains in Northern India: Implications on Rodinia Supercontinent Assembly	

IMURA1213	Plasmonic platforms for vector beam spectroscopy	
IMURA1214	Geodynamics of Burmese arc and adjoining regions: Geophysical and numerical modelling	
IMURA1215	Predictive and Prescriptive Analytics for Energy Management in a Building Cluster	
IMURA1217	Stability Assessment of Wind Turbine foundations against Climate Change Effects	
IMURA1220	Intracellular microscopy for elucidation of programmed cell death mechanisms	
IMURA1223	Computational Design of Tough Metamaterial Through Exascale Phase Field Fracture Simulation	
IMURA1224	Circuits & System Architectures, DSP and AI-based techniques for EMI and Noise Reduction in Biomedical Electronics	
IMURA1225	The application of weather radar for the study of wildfires	
IMURA1226	Development of Bio-Inspired Heterogeneous Catalysts for Glycerol Valorisation to High-Value Chemicals and Fuels	
IMURA1227	Characterization of seismicity in tectonic provinces: A study using nonlinear signal analysis techniques and geodynamics	
IMURA1228	Probing directed energy deposition technology for remanufacturing of high-valued functional components	
IMURA1229	Energy security risk and asset pricing	
IMURA1230	The role of Artificial Intelligence in Economic Decision making	
IMURA1231	Stochastic modelling of financial markets: insights and applications	
IMURA1232	Multi-modal foundation models in remote sensing	
IMURA1233	Semantic 3D Reconstruction of Dynamic Scenes	
IMURA1234	Local Viscoelasticity in Smart Soft Materials using theory and experiments for advanced manufacturing	
IMURA1235	Multi-fidelity machine learning models to identify active micro-environments for efficient electrochemical CO2 reduction	
IMURA1237	Explainable Multimodal Deepfakes Detection	
IMURA1238	Debiasing in high dimensional sparse regression	
IMURA1239	Turbulent mixing and particle hydrodynamics in stratified rotating flows	
IMURA1240	Reverse Osmosis-Membrane Distillation (RO-MD) Hybrid System for Food and Beverage Industry Wastewater Treatment	
IMURA1241	Application of Hydrogen Electrolyser Plant for Improved Microgrid Operation	
IMURA1242	Understanding Spinal Neuromuscular Junction Formation in Vertebrates During Development and Disease Using Zebrafish as a Model	
IMURA1243	Integrating Neuroimaging and AI/ML for Personalized Mental Health Diagnostics	
IMURA1244	AI-Driven Mineral Resource Exploration and Ore body Modeling	
IMURA1246	Development of Double Emulsion Liposomes Using Microfluidics for Targeted Triple Drug Delivery to Glioblastoma multiforme (GBM) tumor site	
IMURA1248	Advancing Plasmonic Catalysis for Sustainable Energy Conversion	
IMURA1249	Advanced Single-Particle Dark Field Microscopy for Nanoscale Optical Characterization	
IMURA1252	Probabilistic Modeling of Prestress Loss and Fatigue in Existing Prestressed Concrete Bridges	