

NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT
Department of Electrical Engineering
INSTRUMENTATION AND CONTROL SYSTEMS

List of Projects (Faculty-wise)

Sr. No	Project Title	Funding Agency	Total Fund Sanctioned	PI	Year of Award of project	Duration (Years)
1.	Real Time Traffic Management Leveraging Machine Learning Driven Unmanned Aerial Vehicle Solutions	CEFIPRA	Rs. 150 Lakhs	Dr. Shihabudheen KV	2024	3
2.	Investigations on the alteration in brain dynamics during progression of Alzheimer disease (AD) from Mild Cognitive Impairment (MCI) under resting and cognitive task conditions using complex network analysis	DST-SERB	Rs. 18.96 Lakhs	Dr. Subha D. P.	2023	3
3.	Autonomous measurement and tracking of deep-sea plumes using a swarm of heterogeneous underwater vehicles	Ministry of Earth Science's Deep Ocean Mission (DOM)	Rs. 88 lakhs	Dr. Rakesh R. Warier	2024	2
4.	Networked Marine Robotic Systems for Ocean Exploration	SPARC	Rs. 84 lakhs		2024	3
5.	Development of Advanced Non-linear Non-Gaussian State Estimators with Application to Real-life Problems	CRG-SERB	Rs. 22 lakhs	Dr. Rahul Radhakrishnan	2023	3
6.	USBL Tracking and Passive Localization of Targets using Correntropy and Moving Horizon Estimates	NPOL Cochin	Rs. 12.76 Lakhs		2023	1
7.	Design and Development of a highly efficient microfluidic pumping and mixing device for accurate bio-chemical analysis with deep learning method	DST-SERB	Rs. 32.56 Lakhs	Dr. Sathiya S.	2022	2

8.	Development of Spray Evaporation Technique for the Preparation of Uniform Microparticles of Ammonium Dinitramide (ADN) and Surface Modification by Atomized Spray Coating Method	DRDO	Rs. 72.59 Lakhs	Dr. Mija S.J.	2021	2
9.	Anomaly Detection and Counter Measures in Cyber-Physical Systems using Advanced Control & Estimation Techniques	DST- SERB-SRG	Rs. 13.77 Lakhs	Dr. Ranjith Ravindranathan Nair	2021	2
10.	Steering controlled adaptive headlights system	NITI Aayog	Rs. 0.9 Lakhs	Dr. Mithun M.S.	2021	0.5
11.	An IoT and Analytics Based Framework of Landslide Forecast and Risk Communication for Himalayan Region of North-East India	MeitY, Microelectronics Development	Rs. 80 Lakhs	Dr. S. N. Deepa	2022	3

Total: 575.54 Lakhs