

Department of Mathematics & Computing

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd- mm-yyyy)	Name of PI
1	Developing Generalizable AI Models for Drone Imagery in Complex and Varied Indian Landscapes	Anusandhan National Research Foundation (ANRF)	59.83	04.06.2025	03.06.2028	Prof. Sudhakar Kumawat
2	Improving the performance of 6TiSCH and DSME based Internet of Things Networks	Anusandhan National Research Foundation (ANRF)	60.12	04.06.2025	03.06.2028	Prof. Alakesh Kalita
3	Dynamic Modeling of Wet Granulation Integrating Multiscale PBM-DEM and Coarse-Graining Approaches to Track Size and Temperature Evolution	Anusandhan National Research Foundation (ANRF)	41.61	12.06.2025	11.06.2028	Prof. Ashok Das
4	Mathematical Modeling of Intraneuronal Transport in the Human Brain Using Exclusion Processes: Analysis and Simulation	Anusandhan National Research Foundation (ANRF)	33.24	12.06.2025	11.06.2028	Prof. Atul Kumar Verma
5	Applications of various machine learning (ML) techniques for predicting, detecting, and analyzing rare earth elements (REEs) in different geological and environmental contexts	TEXMiN (Technology Innovation in Exploration & Mining Foundation), Institute Innovation Hub, Dhanbad	16.62	18.07.2025	17.07.2027	Prof. Subhashis Chatterjee
6	Mineral Prospectivity Mapping of Critical Minerals (Li & REE) in Pegmatite of Koderma Mica Belt using Hybrid CNN Approach	TEXMiN (Technology Innovation in Exploration & Mining Foundation), DST, New Delhi	18.50	01.09.2025	31.08.2027	Prof. Sanjeev Anand Sahu
7	Improving the Performance of IEEE 802.11 AH UAV Networks in Mission-Critical Defense Environments	NMICPS Technology Innovation Hub on Autonomous Navigation (TiHAN) Foundation, IIT Hyderabad	21.92	10.10.2025	09.10.2026	Prof. Alakesh Kalita

8	Robust Signal Reconstruction and Prediction in Aeronautical System Using Derivative Sampling Expansions	DRDO (AR&DB), New Delhi	44.98	15.01.2026	14.01.2029	Prof. A. Antony Selvan
9	Arithmetic, Analytic and Combinatorial Web of Modularity	DST, New Delhi	35.00	18.08.2025	17.08.2030	Prof. Ajit Singh
10	Resilient Edge-LoRa System for Early Gas Hazard Detection in Coal Mines and Adjacent Communities	Jharkhand Council on Science, Technology and Innovation, (JCSTI), Govt. of Jharkhand	5.96	06.03.2026	05.03.2029	Prof. Tamoghna Ojha
11	Prediction of Relapse time and Recovery Rate of Substance Use Disorder Based on Longitudinal Survey Study Applying Statistical and Machine Learning Tools	Anusandhan National Research Foundation (ANRF), New Delhi	35.01	28.03.2026	27.03.2029	Prof. Shuvashree Mondal
12	Elevated global atmospheric CO ₂ levels pose a major threat to ecosystems and environmental systems: Human behaviour as a potential mitigation strategy	Anusandhan National Research Foundation (ANRF), New Delhi	29.04	02.12.2025	01.12.2027	Prof. Ranjit Kumar Upadhyay (Mentor)