

INDIAN INSTITUTE OF TECHNOLOGY DELHI
Industrial Research & Development Unit

No. IITD/IRD/SURA-2023/ 247965

Dated: 23/02/2024

Office Memorandum

After technical evaluation by the concerned facilitator(s) and the committee(s) constituted by the Competent Authority, the following projects have been awarded to the students concerned under SURA-2023.

Departments of Computer Science & Engineering and Mathematics

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
1	Modelling Crystallization Using Machine Learning Augmented Simulations	Abhinav Singh Harshit Kumar Gautam Computer Science & Engineering	2021CS50746 2021CS50129	Prof. Tarak Karmakar Chemistry
2	On the Non-Trivial Solutions of the Polynomial Pell's Equation	Vaibhav Bajaj Computer Science & Engineering	2021CS50126	Prof. Ekata Saha Mathematics
3	Development of an Automated Video and Image-Based Evaluation for Drilling in Microscopic Neurosurgery	Amish Kansal Computer Science & Engineering Yash Goel Electrical Engineering	2021CS50622 2021EE10984	Prof. Chetan Arora Computer Science & Engineering
4	Coarsening Graphs for Scaling GNN for Chemical Molecule Analysis	Kumar Arjun Mathematics Rishi Chandra Computer Science & Engineering	2021MT10232 2021CS10584	Prof. Sandeep Kumar Electrical Engineering
5	Assistive Technology for Homing to Building Entrances for Persons Visual Impairment	Bhumi Gadhavi Riju Bindua Mathematics	2021MT60950 2021MT10903	Prof. Rohan Paul Computer Science & Engineering
6	Data Envelopment Analysis for the Performance of Various Geographical Regions in Fighting COVID-19	Rakshitha Ayush Gupta Mathematics	2021MT10904 2021MT10697	Prof. Aparna Mehra Mathematics
7	Capacity Modification in the Stable Matching Problem	Salil Gokhale Samarth Singla Mathematics	2021MT10237 2021MT60942	Prof. Rohit Vaish Computer Science & Engineering
8	Multi-Class Classification with Surrogate Risk	Namay Bedi Verma Aniket Pandey Mathematics	2021MT61051 2021MT60266	Prof. Rohit Kumar HUSS
9	Wasserstein Distance Based Change Point Detection	Srinath K S Mathematics	2021MT10912	Prof. Gourab Ghatak Electrical Engineering

Departments of Chemical Engineering/ DBEB/ Textile and Fibre Technology

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
10	Physics-Informed Neural Networks (PINNs) in Bioprocessing	Anurag Chemical Engineering	2021CH70026	Prof. Hariprasad Kodamana Chemical Engineering
11	CFD-DEM Study of a Gas-Solid Fluidized Bed with Elongated Rod Particles	Ayush Kumar Jeevesh Joon Chemical Engineering	2021CH10404 2021CH10386	Prof. Vikrant Chemical Engineering
12	Schizophrenia: Investing the Aberrations in Ion Channels, Neurons and Brain Neuronal Networks	Khushi Singh DBEB	2021BB10332	Prof. Tapan K. Nayak Kusuma School of Biological Sciences
13	Identification of an Evolutionarily Conserved Actin Interactome and Studying their Effects on Early Human Embryogenesis	Anoushka Jain DBEB	2021BB10328	Prof. Anita Roy Kusuma School of Biological Sciences
14	Design of System/Equipment for Extraction of Lignocellulosic Fibre	Shalini Textile and Fibre Engineering	2021TT11165	Prof. Deepti Gupta Textile and Fibre Engineering

Department of Electrical Engineering

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
15	Real Time Brain Source Localization With Application to Epilepsy	Oshin Kavdia Disha Katia Electrical Engineering	2021EE10654 2021EE10647	Prof. Lalan Kumar Electrical Engineering
16	Developing a Wireless Data Acquisition System for a Fully Addressable and Flexible Dual Piezoelectric/Triboelectric Transduction Based Pressure Sensor for Human Gait Analysis	Rishabh Barola Rishi Gupta Electrical Engineering	2021EE10636 2021EE10635	Prof. Dhiman Mallick Electrical Engineering
17	CMOS Based Implementation of a Neuron and Synapse for Building Neural Networks	Akshar Tripathi Divyansh Agarwal Electrical Engineering	2021EE10980 2021EE10035	Prof. Ankesh Jain Electrical Engineering
18	Oscillator Based Neuromorphic Computing for Edge Healthcare	Eva Ghanshani Pooja Mahajan Electrical Engineering	2021EE10650 2021EE10652	Prof. Sumeet Agarwal Prof. Debanjan Bhowmik Electrical Engineering
19	Impact of Advance Bloom Filters and Multi-Hop Algorithm in Provenance Recovery in Sparse Networks with Mobile Nodes	Pramsu Shrivastava Shivam Purshottam Jhanwar Electrical Engineering	2021EE10140 2021EE10625	Prof. Harshan Jagadeesh Electrical Engineering

Depts. of Mechanical Engineering, Applied Mechanics and Materials Science & Engineering

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
20	Development of Control Systems in an Autonomous Mobile Robot	Marvat Johri Mechanical Engineering	2021ME10985	Prof. Sunil Jha Mechanical Engineering
21	Design and Development of an Advanced Cutting Tool by Additive Manufacturing	Sanchit Mechanical Engineering	2021ME21063	Prof. Sagar Sarkar Mechanical Engineering
22	A Machine Learning Approach to Obtain Non-Linearly Elastic Constitutive Relations of Rod and Strip Like Structures	Vanshika Tripathi Applied Mechanics	2021AM10392	Prof. Ajeet Kumar Prof. Souvik Chakraborty Applied Mechanics
23	Densification of Ionic Solids Under Applied Electric Fields	Harsh Kumar Materials Science and Engineering	2021MS10860	Prof. Suryanarayana Vikrant Karra Materials Science and Engineering
24	Compositional Engineering of Double Halide Perovskite	Sarthak Jain Lakshya Jain Materials Science and Engineering	2021MS10866 2021MS10861	Prof. Dibyajyoti Ghosh Materials Science and Engineering
25	Modelling Molecular Conformations using Graph Theory and Machine Learning-Augmented Simulations	Subham Yadav Akshatt Sethia Mechanical Engineering	2021ME11011 2021ME10976	Prof. Tarak Karmakar Chemistry
26	Tunable Plasmonic Lenses for Sub-Wavelength Optical Microscopy	Gurharinder Singh Divyansh Wadhwa Materials Science and Engineering	2021MS10849 2021MS10850	Prof. Krishna Balasubramanian Materials Science and Engineering
27	Fabrication of Lightweight Battery Housing for EVs Using Cold Metal Transfer (CMT) Process	Aviral Rastogi Mechanical Engineering	2021ME21056	Prof. Abhishek Das Mechanical Engineering
28	Primal Heuristics for Mixed-Integer Nonlinear Optimization and their Implementation in the Open-Source Solver Minotaur	Ananya Singh Antriksh Saran Mechanical Engineering	2021ME10993 2021ME21097	Prof. Prashant Palkar Mechanical Engineering

The concerned students can collect the final payment from IRD (Accounts). However, award certificates will be released only on certification by the students through their facilitators that all bills related to their SURA projects have been settled.

At
23/02/2024
Assistant Registrar (IRD)

DISTRIBUTION

1. Concerned students through project facilitator
2. Deputy Registrar IRD Accounts

CC: Assoc. Dean (R&D)

INDIAN INSTITUTE OF TECHNOLOGY DELHI
Industrial Research & Development Unit

No.IITD/IRD/SURA-2023/ 250051

Dated: 01/02/2024

Office Memorandum

Reference : IITD/IRD/SURA-2023/247965 Dated: 23-02-2024

This is in continuation to above referred office memorandum. After technical evaluation by the concerned facilitator and the committee constituted by the Competent Authority, the following project has been awarded to the students concerned under SURA-2023.

Department of Civil Engineering

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
1	Development of Low-Cost Permeable Reactive Barrier (PRB) from Waste Material for the Removal of Nitrates and Phosphates from Groundwater	Aryan Bhardwaj Devansh Gupta Civil Engineering	2021CE10511 2021CE10498	Prof. Sumedha Chakma Civil Engineering

The concerned students can collect the final payment from IRD (Accounts). However, award certificates will be released only on certification by the students through their facilitator that all bills related to their SURA project has been settled.

Assistant Registrar (IRD)

DISTRIBUTION

1. Concerned students through project facilitator
2. Deputy Registrar IRD Accounts

CC: Assoc. Dean (R&D)

AP
29/02/24

29/02/24
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