

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**Industrial Research & Development Unit**

No.IITD/IRD/SURA-2019/

216065

Dated: 13/02/2020

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-2019.

**Departments of Computer Sc. & Engg. & Mathematics**

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
1	Experience Study of Existing Verification Techniques for C11	Priyanshu Gautam Rachit Kumar Comp. Sc. & Engg.	2017CS10362 2017CS10364	Prof. Subodh Sharma Comp. Sc. & Engg.
2	Comparison of Different Hardware Architectures Traditional Von Neumann, Neuromorphic and Quantum for Neural Network Algorithms	Siddharth Dangwal Elect. Engg. Pratheek D Souza Rebello Comp. Sc. & Engg.	2017EE10497 2017CS10361	Prof. Sorav Bansal Comp. Sc. & Engg. Prof. D. Bhowmik Elect. Engg.
3	Analyzing Urbanization Trends using Satellite Imagery	Ankit Kumar Singh Comp. Sc. & Engg. Sakshi Taparia Mathematics	2017CS10328 2017MT10748	Prof. Aaditeshwar Seth Comp. Sc. & Engg.
4	Single Event Reconstruction from Brain Activity	Kartik Sharma Comp. Sc. & Engg.	2017CS10342	Prof. Rahul Garg Comp. Sc. & Engg.
5	Phrase Table Pruning for English to Hindi Phrase Based Machine Translation	Divyam Gupta Keshav Malpani Mathematics	2017MT10287 2017MT10213	Prof. Niladri Chatterjee Mathematics

**Departments of Chemical Engineering and DBEB/Text. Tech.**

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
6	Aptamer based Colorimetric Sensor for Detection of Organophosphorus Pesticides	Vaibhav Jain Nipun Garg Chemical Engg.	2017CH70283 2017CH10224	Prof. Sudip K Pattanayek Chemical Engg.
7	Enhanced Concrete Aggregates from Steel Slag and Carbon Dioxide	Paritosh Raj Mohit Anand Chemical Engg.	2017CH10227 2017CH70272	Prof. K.K. Pant Chemical Engg.
8	Mathematical Modeling of Impedance Data to Elucidate Bacterial-drug Interaction	Anurag Holani Akshat Singh Chemical Engg.	2017CH10198 2017CH10194	Prof. Shalini Gupta Chemical Engg.
9	Novel Bimetallic Catalysts for Oxidative Dehydrogenation of Ethane using Carbon Dioxide	Rounak Tikmani Tanish Singhal Chemical Engg.	2017CH10243 2017CH10258	Prof. Divesh Bhatia Prof. M.Ali Haider Chemical Engg.
10	Modelling and In-Vitro Experimentation of Intratumoral Drug Delivery Systems	Aditi Singh Khushi Sharma Chemical Engg.	2017CH10188 2017CH10114	Prof Ashok Bhaskarwar Chemical Engg.

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11	Increasing the Culturability of Rhizospheric Microbes by Employing a Novel Strategy	Priyanshi Rajput Anuj Khandelwal DBEB	2017BB50062 2017BB50054	Prof. Shilpi Sharma DBEB
12	Enzymatic Biotransformation of Asphaltene	Sarthak Mishra Priyanka Singh DBEB	2017BB10034 2017BB10026	Prof. Preeti Srivastava DBEB
13	Constructing Structural and Energy Profiles to Predict Exon-Intron Boundaries in Human Genome	Kartikey Karnatak Simran DBEB	2017BB50057 2017BB10040	Prof. B. Jayaram Chemistry & School of Biological Sciences
14	Biomass Derived Carbon Fibres for Lithium Sulfur Batteries	Aayush Sharma Kartikayan Sharma Textile Tech.	2017TT10873 2017TT10909	Prof. Bhanu Nandan Textile Tech.

### Department of Civil Engineering

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
15	Bio – inspired Smart Surfaces for Continuum Materials Interacting with Soil	Riya Anil Kumar Civil Engg.	2017CE10146	Prof. Prashanth Vangla Civil Engg.
16	Investigating the Stability and Mechanics of Hematene : A 2D Non - van Der Waals Material	Gaurav Brajesh Sharma Madhav Tiwari Civil Engg.	2017CE10102 2017CE10119	Prof. N.M. Anoop Krishnan Civil Engg.
17	Predicting Hardness of Silicate Glasses using Machine Learning.	Jyamiti Maheshwari Civil Engg.	2017CE10112	Prof. A. K. Jain Civil Engg.

### Department of Electrical Engineering

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
18	Interference Mitigation in Li-Fi Systems	Varun Gupta Ritvik Kapila Electrical Engg.	2017EE30551 2017EE10484	Prof Abhishek Dixit Electrical Engg.
19	Applications of Intel's Neural Compute – Stick to Improve the Self- Driving Car	Prashmit Kumar Bose Mudit Soni Electrical Engg.	2017EE10472 2017EE10463	Prof Sunil Jha Mech. Engg.
20	Hardware Implementation of Physical Layer Security	Ritik Agrawal Ankit Garg Electrical Engg.	2017EE10482 2017EE10439	Prof. Manav R. Bhatnagar Electrical Engg.
21	Indoor Positioning using Magnitic Compass, Accelerometer and Gyroscope	Ravi Gupta Mohammad Atif Electrical Engg.	2017EE10479 2017EE10462	Prof Seshan Srirangarajan Electrical Engg.
22	Layout and Fabrication of Transistor based Feedforward Neural Network and Transistor based Feedback Circuit for Spintronics based Feedforward Neural Network	Janak Sharda Nilabjo Dey Electrical Engg.	2017EE10454 2017EE10465	Prof Debanjan Bhowmik Electrical Engg.
23	Soft Exosuit for Arm Augmentation	Raghav Gupta Ujjwal Agarwal Electrical Engg.	2017EE10544 2017EE30548	Prof Shubhendu Bhasin Electrical Engg.
24	Developing a High throughput Large Area Maskless Aligner for Flexible Electronics	Utkarsh Tyagi Aseem Vidyadhar Electrical Engg.	2017EE30550 2017EE30518	Prof Madhusudan Singh Electrical Engg.

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## Department of Mechanical Engineering

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
25	Development of Epoxy Composites for Bio-Tribological Application	Shanmukhi Sripada Mech. Engg.	2017ME10158	Prof. Sujeet K. Sinha Mech. Engg.
26	Synthesis and Analysis of Sheep – Shearing Device for Rural Use	Gunjan Mathur Mech. Engg.	2017ME20666	Prof. S.K. Saha Prof. Ramakrishna K Mech. Engg.
27	Redesign and Construction of an Improved Bangle-making Furnace	Shreyash Raj Manish Ranjan Mech. Engg.	2017ME10612 2017ME10587	Prof. M.R. Ravi Mech. Engg.
28	Design of a Low Cost PIV System	Namita Dudeja Mech. Engg.	2017ME10021	Prof. Supreet Singh Bahga Mech. Engg.
29	Estimation of Entropic Heating in Lithium-Ion Cells	Shobhit Singhal Sahil Chadha Mech. Engg.	2017ME10960 2017ME10607	Prof. Amit Gupta Mech. Engg.
30	Bioinspired Flapping Wing Soft robotic Micro – air – vehicle (MAV)	Diptanshu Rajan Jayaditya Gupta Mech. Engg.	2017ME10574 2017ME10579	Prof. Sitikantha Roy Prof. Sawan S. Sinha

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.

  
Assistant Registrar (IRD)

### DISTRIBUTION

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

CC: Assoc. Dean (R&D)

  
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24/10/2020