

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

No.IITD/IRD/SURA-2018/ 68302

Dated: 31/01/2019

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-2018.

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

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
1.	Realtime Detection using Deep Learning on Embedded Platforms	Arshdeep Singh Mayank Singh Chauhan Comp. Sc. & Engg.	2016CS50625 2016CS50394	Prof. Rijurekha Sen Comp. Sc. & Engg.
2.	Event Map Generator	Chinmay Rai Samarth Aggarwal Comp. Sc. & Engg.	2016CS50615 2016CS10395	Prof. Mausam Comp. Sc. & Engg.
3.	Securing the Wireless Network's Physical Layer in Cyber Physical Systems using Game Theoretic Techniques	Sambhav Khurana Siddhartha Shankar Kahali Mathematics	2016MT10614 2016MT10613	Prof. Manav Bhatnagar Elect. Engg.
4.	On the Frobenius Problem for an Arithmetico-Geometric Sequence in three Variables	Alankrit Garg Mathematics	2016MT10491	Prof. Amitabh Tripathi Mathematics
5.	Integrating Optimization of Operational Planning with Competition from Airlines for High Speed Trains	Shivam Singla Tanuj Garg Mathematics	2016MT10619 2016MT60078	Prof. Aparna Mehra Mathematics

**Depts. of Chemical Engg. and DBEB/Text. Tech.**

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
6.	Sustainable Air Pollution Reduction through Foam Bed Reactor	Satyam Anand Varun Poddar Chemical Engg.	2016CH10114 2016CH10113	Prof. A.N. Bhaskarwar Chemical Engg.
7.	Precipitation Hydrodynamics of Extraction of Silica From Rice Husk Ash	Anuj Aggarwal Pratyush Dhasmana Chemical Engg.	2016CH70151 2016CH10097	Prof. Rajesh Khanna Chemical Engg.
8.	Effect of Sonication on Capacitive Performance of Exfoliated Graphite Sheets	Aman Singhal Mehul Singhal Chemical Engg.	2016CH10101 2016CH10082	Prof. Anupam Shukla Chemical Engg.
9.	Computational Design of Peptides to Improve Refolding Yields of TGF - B3	M S Aishwaryah Chemical Engg.	2016CH10119	Prof. Gaurav Goel Chemical Engg.
10.	Development of Bacterial Traps and Self - Cleavage Vectors for Cost - Effective Protein Purification	Saksham Sharma DBEB	2016BB50004	Prof. Preeti Srivastava DBEB

11	An Eco Friendly Approach to Enhance Soil Health using Synthetically Modified Community	Parth Mittal Prathibha Bhardwaj DBEB	2016BB50002 2016BB50008	Prof. Shilpi Sharma DBEB
12	Development of Hydroxyapatite Nanoparticles Decorated Hydrogel Based Composite Materials for Flexible Cartilage Replacement	Samir Gupta Text. Tech.	2016TT10864	Prof. <del>Sourabh</del> Ghosh Text.Tech.
13	Shape Memory Smart Textile Actuator	Ridhi Jain Eashan Bajaj Text. Tech.	2016TT10868 2016TT10839	Prof. Bipin Kumar Text. Tech.

### Dept. of Electrical Engineering and Physics

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
14	Comparison between Transistor and Spintronics based Hardware Artificial Neural Networks (ANN) on the basis of Energy Consumption and Speed	Anand Kumar Verma Apoorv Dankar Elect. Engg.	2016EE10459 2016EE10460	Prof. Shouri Chatterjee Elect. Engg.
15	Analysis and Optimization of Deep Neural Network for Self Driving Robot Car (Prototype)	Tarun Sahu Kanish Garg Elect. Engg.	2016EE30519 2016EE10446	Prof. I.N. Kar Elect. Engg.
16	On the Robustness of Standard Cryptographic Mechanisms in High Mobility RFID Systems	Shivam Jain Saurabh Kumar Elect. Engg.	2016EE10160 2016EE10825	Prof. Harshan Jagadeesh Elect. Engg.
17	Design Exploration Study of Feature Extraction in Hardware	Khushal Sethi Elect. Engg.	2016EE10556	Prof. Manan Suri Elect. Engg.
18	Microphone Array based Lung Sound Analyzer	Hemant Kumar Shivansu Kumar Elect. Engg.	2016EE10426 2016EE10468	Prof. Lalan Kumar Elect. Engg.
19	Decentralized Formation Control of a Swarm of Quadrotors	Abhinav Kalra Nalawade Sarvesh Bharat Elect. Engg.	2016EE10441 2016EE10442	Prof. Shubhendu Bhasin Elect. Engg.
20	Designing and Fabrication of Surface-enhanced Raman Scattering Sensor Chips for Chemical Sensing	Ravi Singh Vaibhav Porwal Elect. Engg.	2016EE10467 2016EE10499	Prof. Anuj Dhawan Elect. Engg.
21	Characterization and Modeling of Hot Carrier Induced Degradation in Nanowire FETs	Shikhar Tuli Anubhav Bhatia Elect. Engg.	2016EE10545 2016EE10835	Prof. Abhishek Dixit Elect. Engg.
22	Diversity based FSO System	Burma Vaishnavi Shweta Meena Elect. Engg.	2016EE30520 2016EE30532	Prof. Abhishek Dixit Elect. Engg.
23	Modelling Underwater Noise and Studying their Effect on Acoustic Communication	Aditya Abhishek Gajera Dev Elect. Engg.	2016EE10435 2016EE10431	Prof. Monika Aggarwal CARE
24	Seeing The Unseeable: Imaging through Scattering Media Using the Speckle Memory Effect	Suraj Goel Ayush De Physics	2016PH10550 2016PH10555	Prof. Kedar Khare Physics
25	Second Harmonic Generation Using Lithium Niobate Ridge Waveguide	Kshiti Sneh Rai Physics Nikunj Sangwan Text. Tech.	2016PH10558 2016TT10842	Prof. Joyee Ghosh Physics

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Deptt. of Mech. Engg.

#	Title of the Project	Name of the Students	Entry No.	Name of the Project Facilitator
26	General Tree Climber	Ayush Srivastava Sushant Mendiratta Mech. Engg.	2016ME10830 2016ME10073	Prof. S.P Singh Mech. Engg.
27	Design of an Integrated Regular Health Monitoring Machine	Kshitij Gupta Tanmay Goyal Mech. Engg.	2016ME20760 2016ME20757	Prof. Devendra Kumar Dubey Mech. Engg.
28	Development of Micro-fluidic Device for Three Dimensional Hydrodynamic Focusing of Cells	Saksham Jain Sanidhya Jain Mech. Engg.	2016ME10693 2016ME10687	Prof. Supreet Singh Bahga Mech. Engg.
29	Development of a Small Scale Improved Up-draught Pottery Kiln	Swapnesh Agrawal Divyansh Rana Mech. Engg.	2016ME10697 2016ME10901	Prof. Sangeeta Kohli Mech. Engg.
30	Developing Driver Assistance System with an Intention Sensing Controller	Hitesh Agarwal Shantnav Agarwal Mech. Engg.	2016ME20777 2016ME20767	Prof. Sudipto Mukherjee Mech. Engg.

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.



(V.K. Vashistha)  
Assistant Registrar (IRD)

DISTRIBUTION

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

CC: Assoc. Dean (R&D)