

**Indian Institute of Technology Delhi  
Industrial Research & Development Unit**

No.IITD/IRD/SURA-2014/ 1905

24  
Dated: /03/2015

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 -2014.

**Dept. of Biochemical Engineering & Biotechnology (DBEB) and Chemical Engg.**

| #  | Title  | Name of the students                                    | Entry No./CGPA             | Name of the facilitator            |
|----|--|---|----------------------------|------------------------------------|
| 1. | Reduction of Power Consumption in Industrial Chlor-Alkali Process using Di-Electrophoresis | Anurag Ranjak<br>Abhishek Sinha<br>Chem. Engg.          | 2012CH70148<br>2012CH10062 | Dr. Anupam Shukla<br>Chem. Engg.   |
| 2. | Development of a continuous Protein Refolding Process                                      | Abhishek Kumar Sharma<br>Harshit Agarwal<br>Chem. Engg. | 2012CH10061<br>2012CH10091 | Prof. Anurag Rathore<br>Chem Engg. |
| 3. | Mechanism of Chromosomal Replication and Segregation in Rhodococcus Erythropolis           | Gunjan Gupta<br>Aashima Goyal<br>DBEB                   | 2012BB50018<br>2012BB50009 | Dr. Preeti Srivastava<br>DBEB      |
| 4. | Insights into indirect factors affecting DNA Protein Interactions                          | Aditi Mishra<br>Yoshita Agrawal<br>DBEB                 | 2012BB50006<br>2012BB50050 | Dr. D. Sundar<br>DBEB              |

**Deptt. of Civil Engg.**

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|----|--|--|----------------------------|-------------------------------------|
| 5. | Ecological Slope Stabilization                                       | Abhishek Singh<br>Devdarshdeep Singh<br>Civil Engg.            | 2012CE10317<br>2012CE10347 | Prof. G.V. Ramana<br>Civil Engg.    |
| 6. | Development of Simple testing Kit for Determining Fitness of Fly Ash | Saureesh Sahai<br>Abhinav Bindal<br>Civil Engg.                | 2012CE10962<br>2012CE10312 | Dr. Shashank Bishnoi<br>Civil Engg. |
| 7. | Methane Oxidation in Landfills using Vegetative Covers               | Saurav Bhagat<br>T Chanakya<br>Vishwanath Reddy<br>Civil Engg. | 2012CE10400<br>2012CE10413 | Prof. Shashi Mathur<br>Civil Engg.  |
| 8. | Basalt Fiber Reinforced and Pre-stressed Concrete Beams              | Prashant Kumar<br>Civil Engg.                                  | 2012CE10381                | Dr. Vasant Matsagar<br>Civil Engg.  |

**Deptt. of Elect. Engg. and Physics**

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|----|---|--|----------------------------|--------------------------------|
| 9. | Low Cost, Pocket-Sized Near-Infrared Optical Device | Yash Kumar<br>Prashant Budania<br>Elect. Engg. | 2012EE20531<br>2012EE10468 | Dr. Anuradha Godavarty<br>CBME |
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|-----|---|--|----------------------------|--|
| 10. | Effective Phase Modulation By Sub Wavelength Structures (Phase Engineering)                       | Amar Kumar<br>Physics                                | 2012PHI0827                | Dr Kedar B Khare<br>Physics                                |
| 11. | Development of a Field-Emission Based, Integrated, Portable Electron Source Using Carbon Nanotube | Mithilesh Nayak<br>Aishwarya<br>Physics              | 2012PHI0849<br>2012PHI0825 | Prof. Santanu Ghosh<br>Prof. Pankaj Srivastava<br>Physics  |
| 12. | Canary for Read Operation in 6T SRAM Cell   | Nishkam Prabodh<br>Avadh Singhal<br>Elect. Engg.     | 2012EE20519<br>2012EE20834 | Prof. G.S. Visweswaran<br>Elect. Engg.                     |
| 13. | Low Power Routing For Network-On-Chip   | Ujjval Kumar Sinha<br>Elect. Engg.                   | 2012EE10488                | Dr. Turbo Majumder<br>Elect. Engg.                         |
| 14. | Robotic Manipulation for Segmentation of Occluding Object through Vision.                         | Amit Kumar Yadav<br>Kishlay Kushwaha<br>Elect. Engg. | 2012EE10434<br>2012EE10459 | Prof. S. Chaudhury<br>Prof. Sumeet Agarwal<br>Elect. Engg. |
| 15. | Localized Surface Plasmon Based Fiber Optic Sensors   | Khushbu Gupta<br>Sachit Sehgal<br>Elect. Engg.       | 2012EE20514<br>2012EE20526 | Dr. Anuj Dhawan<br>Elect. Engg.                            |
| 16. | A High Accuracy Temperature Compensated Oscillator in CMOS  | Anjali Rai<br>Isha Goyal<br>Elect. Engg.             | 2012EE10435<br>2012EE50549 | Prof. Shouribrata<br>Chatterjee<br>Elect. Engg.            |
| 17. | Seismic Signal Processing Using Higher Order Statistics   | Shobhit Zakhmi<br>Vaibhav Garg<br>Elect. Engg.       | 2012EE50557<br>2012EE50563 | Dr. Brejesh Lall<br>Elect. Engg.                           |
| 18. | Simulation Based Study of Junctionless Field Effect Transistors                                   | Palash Nag<br>Ashish Kumar<br>Elect. Engg.           | 2012EE50552<br>2012EE50545 | Prof. M. Jagadesh<br>Kumar<br>Elect. Engg.                 |
| 19. | Design, Development and Control of a Robust Quadrotorgvg  | Basant Singh<br>Abhilash Parashar<br>Elect. Engg.    | 2012EE50546<br>2012EE50542 | Dr. Shubhendu Bhasin<br>Elect. Engg.                       |

**Deptt. of Mech. Engg.**

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|-----|--|---|----------------------------|--|
| 20. | Development of a Low-cost Quantitative Glucose Sensor using paper – based microfluidics integrated with a smartphone | Gupta Jigar M.<br>Himanshu Patel<br>Mech. Engg. | 2012ME10665<br>2012ME10672 | Dr. S S. Bahga<br>Mech. Engg.                          |
| 21. | Modification of Biomass Powered Bangle- Making Furnace   | Shrey Gulati<br>Mech. Engg.                     | 2012ME10724                | Prof. Sangeeta Kohli<br>Prof. M.R. Ravi<br>Mech. Engg. |
| 22. | Designing and Fabrication of a plate thermometer for the measurement of incident Heat Flux on a Surface              | Ankit<br>Aditya Priyadarshi<br>Mech. Engg.      | 2012ME10653<br>2012ME10646 | Prof. Anjan Ray<br>Mech. Engg.                         |

**Deptt. of Comp Sc. & Engg. and Mathematics**

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|----|---|--|----------------------------|--|
| 23 | TA Allocation as an application of Resource Allocation and Optimization               | Tajveer Singh<br>CSE<br>Ayush Sakhuja<br>Mathematics | 2012CS10624<br>2012MT50588 | Prof. Amit Kumar<br>C S. & E           |
| 24 | Recognition of Chords from Musical Piece  | Khushboo Gupta<br>Aastha Tripathi<br>CSE             | 2012CS50288<br>2012CS10203 | Prof. Anshul Kumar<br>C S. & E         |
| 25 | The Next Generation of Open Information Extraction                                    | Kunal Singhal<br>CSE<br>Satwant Rana<br>Maths        | 2012CS10231<br>2012MT50618 | Prof. Mausam<br>C S. & E               |
| 26 | Artificial Neural Network Treatment of EEG signals for thought-controlled prosthetics | Sahil Loomba<br>Vansh Pahwa<br>CSE                   | 2012CS10114<br>2012CS10564 | Prof. Saif K. Mohammed<br>Elect. Engg. |
| 27 | Homomorphic Signatures- Approaches and Applications                                   | Abhay Mitra<br>Abhinav Deep<br>Singh<br>CSE          | 2012CS10204<br>2012CS10207 | Prof. Shweta Agrawal<br>C S. & E       |
| 28 | Positivity preserving reconstruction for Ten-moment Equations                         | Sameeksha Khillan<br>Anjali Singh<br>Mathematics     | 2012MT50116<br>2012MT50587 | Dr. Harish Kumar<br>Mathematics        |

The concerned students can collect the final payment form 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. Asstt. Registrar IRD Accounts
3. Ms Bindu S : for preparation of certificates