

Discovery & Learn 1-2-3-4 Projects (2nd Call 2017) [Total= 14]

S. No.	Project Title	Mentor & Co-Mentor	Department /Centre	Students Name and Entry No.
D_1	Designing and manufacturing a composite Battery Pack for Lithium ion batteries	Prof. Amit Kumar Jain Prof. M.Veerachary (Co-PI)	Elect. Dept.	Mohit Kumar (Mech.) 2014ME10668 Abhijit Saxena (Mech.) 2015ME20708 Sonu Jaiswal (Elect.) 2016EE30522 Ujjawal Agarwal (Elect.) 2017EE30548
D_2	Arth- Bringing meaning to the culture	Prof. Anjan Ray Prof. Nomesh Bolia (Co-PI)	Mech. Dept.	Sudhanshu Shekhar (Chemical Dept.) 2013CH70183 Abhishek Kumar (Elect. Dept.) 2015EE10425 Amit Verma (Elect. Dept.) 2016EE10456 Shivam Sachdeva (Civil) 2016CE10856 Harshvardhan Patni (Mathematics) 2017MT10730
D_3	Semi- supervised drone swarm for disaster mangement and relief services	Prof. Saif K Mohammed	Elect. Dept.	Aniket Bajpai (CSE) 2014CS10209 Saket Dingliwal (CSE) 2015CS50254 Shashwat Shivam (CSE) 2016CS10328 M Veeramakali Vignesh (CSE) 2017CS10346
D_4	Alo-Explore, Experience, Engage	Prof. Ambuj Sagar	HUSS	Deepak Bansal (CSE) 2014CS50435 Askash Varshney (Mathematics and Computing) 201510551 Anoosh Kotak (CSE) 2015CS10211 Anshul Yadav (Mech.) 2017ME10565
D_5	Design and Development of Autonomous Badminton Robot	Prof. Sudipto Mukherjee	Mech. Dept.	Aditya Kumar Chaurasiya (Mech.) 2014ME20708 Rithul P (Mech.) 2014ME10679 Sumit Kumar (Elect.) 2015EE10485 Arjun Bhardwaj (Mech.) 2016ME10754 Tanmay Goyal (Mech.) 2016ME20757 Utkarsh Agrawal (Mech.) 2016ME20755
D_6	Piezoelectric Energy Harvesting (PEH) from Human, outdoor wind and HVAC induced vibrations - Efficient extraction, storage and utilization of the harvested energy	Prof. Shouribrata Chatterjee	Elect. Dept.	Saumav Kapoor (Elect.) 2014EE10482 Ayush Jain (Elect.) 2015EE10641 Ankit Agarwal (Elect.) 2016EE10416

D_9	RNA Thermometers: Analysis and Design	Prof. Shaunak Sen	Elect. Dept.	Chaitanya V. Bhave (DBEB) 2014BB10033 Sumit Kumar (Phys.) 2015PH10832 Aryan Digwal (Maths & computing) 2015MT10591 Harman Mehta (DBEB) 2016BB50003 Sannat Mengi (DBEB) 2016BB10030 Shreya Johri (DBEB) 2016BB10039
D_10	Simulator for methane production from gas hydrate reservoirs by CO2 injection using experimentally derived flow properties	Prof. Jyoti Phirani	Chemical Engg.	Ayushi Agarwal (Chemical Dept.) 2014CH70162 Paridhi Gupta (Chemical Dept.) 2015CH70174 Ravi Choudhary (Mech.) 2015ME10673 Nishtha Gupta (Chemical Dept.) 2016CH10088 Mahak (Chemical Dept.) 2017CH10219
D_11	Autonomous self localising Robots	Prof. I N Kar Prof. Shubhendu Bhasin (Co-PI)	Elect. Dept.	Deepak Korku (Elect.) 2014EE30505 Natasha Meena (Elect.) 2015EE10114 Prakhar Agrawal (Elect.) 2015EE30121 Himanshu Singh (Elect.) 2015EE10449 Avinash Bhutani (Elect.) 2016EE10427 Harsh Jain (Elect.) 2016EE30505
D_12	Safer Helmet Design	Prof. Puneet Mahajan Prof. Sanjeev Sanghi (Co-PI)	Applied Mechanics	Vaibhav Gupta (Mathematics & computing) 2014MT10614 Karik Chaudhary (Industrial Production Engg.) 2015ME20738 Pratham Baheti (Chemical Dept.) 2016CH70163 Aditya Gupta (Chemical Dept.) 2017CH10189
D_13	Design and construction of miRNA- based hybrid sponge as a potential novel agent for glioblastoma treatment	Prof. Ritu Kulshreshtha	DBEB	Randheer Kumar (DBEB) 2014BB10050 Sashi Kalan (DBEB) 2015BB50013 Prince Agrawal (DBEB) 2015BB10051 Saksham Sharma (DBEB) 2016BB50004
D_14	Directed evolution of enzymes via high throughput screening using droplet microfluidics	Prof. Ravikrishnan Elangovan	DBEB	Saurabh Parikh (DBEB) 2014BB10056 Vineet Nair (Elect.) 2016JOP2960 Aishvi Jain (DBEB) 2015BB10024 Sonal Arora (DBEB) 2016BB10041 Aman Prasad (Chemical Dept.) 2017CH70274

D_15	Fabrication and characterisation of micro Hall devices based on semiconductor heterostructures and then applying them to measure inhomogeneous magnetic fields	Prof. Pintu Das	Phys. Dept.	Shivam Goyal (Phys.) 2015PH10827 Ayush De (Phys.) 2016PH10555 Saurabh Gupta (Phys.) 2016PH10543 Mitali Agrawal (Phys.) 2017PH10830
D_19	Accurate measurement of stability, perfection and relaxation in Yoga Asanas using Kinect and EMG and Studying its impact on Cognitive performance.	Prof. Rahul Garg Prof. Varsha Singh (Co-PI)	CSE & HUSS	Sriram Valluri (CSE) 2014CS10263 Abhishek Singh (CSE) 2015CS10205 Archit Aganival (TT) 2016TT10848 Suryansh Agarwal (Mech.) 2017ME10620