

IRD Approved Student D&L (1-2-3-4) Project Proposals (Call-2019)

S. No.	Project Title	Mentor/Mentors	Students
1	To identify Vit D elements in virus genomes and their putative functions	Prof. Vivekanandan Perumal Prof. D Sundar	Umesh Shahdadpuri 2016CH70162 Divya Choudhary 2016CH10112 Priyanshi Rajput 2017BB50062 M Santosh 2018MT10759
2	Autoconfiguration of network parameters using reinforcement learning	Prof. Niladri Chatterjee	Ashray Aman 2016MT60650 Anchit tendon 2017MT10772 Mridul Abhuja 2018MT10626 Shaurya Goyal 2016MT60244
3	Computer Vision Based – Remote Site Installation verification	Prof. Niladri Chatterjee	Sunil Kumar 2016CS10314 Ankit Kumar Singh 2017CS10328

			<p>Arsh Gautam 2017CS10329</p> <p>Mridul Singh 2018CS50412</p> <p>Arnav Sudan 2019TT10954</p>
4	Implementing neural network algorithms on quantum hardware for faster data classification than classical hardware with less resources	Prof. Debanjan Bhowmik	<p>Saurabh Kumar 2016EE10825</p> <p>Siddharth Dangwal 2017EE10497</p> <p>Arunava Das 2018EE10593</p> <p>Nirjhar Das 2019EE30585</p>
5	Reverse Logistics Network Modelling for consumed batteries of electric vehicles	<p>Prof. Nomesh Bolia</p> <p>Prof. Varun Ramamohan</p>	<p>Aman Jain 2016ME10758</p> <p>Aditya Raj Gupta 2017ME20645</p> <p>Mahak 2017CS10219</p> <p>Rishi Dubey 2018ME20711</p>

			Kushal Shah 2019ME10808
6	Measuring real world automobile pollution by on-road measurements	Prof. Mayank Kumar Prof. Vikram Singh	Pranav Chawla 2016ME10686 Ayush jain 2017ME10517 Prabhpreet Singh Bhatia 2018ME20704 Shriya Sharma 2019CH70196
7	Rapid DC Electric Vehicle Chargers for in-home usage	Prof. Sumit Pramanick Prof. Soumya Subhra Nag	Nitin Yadav 2016EE10050 Saswat Mishra 2017ME20692 Anshul Damesh 2017EE30514 Rohan Yuttham 2017ME10605 Ankit Kumar 2018EE10669

8	Development of data acquisition and communication systems for an electric racing car prototype	Prof. B K Panigrahi	Manish Yadav 2016ME10707 Sahil Chadha 2017ME10607 Karan Goyal 2018TT10908 Aditya Mulay 2019PH10641
9	Study the effect of light scattering in emulsion/suspension on Photochemical reaction	Prof. Vikram Singh	Somendra Singh Jadon 2017CH70310 Rohan Kumar Garg 2017CH70301 Shubham Mittal 2018CH10245 Dhruv Kumar Gupta 2019CS10346
10	Text extraction, simplification and synopsis generation using reinforcement learning	Prof. Niladri Chatterjee	Sharut Gupta 2017MT60250 Sakshi Tapara 2017MT10746 Bhumika Chopra 2018MT10748 Hetvi Jethwan 2018MT10754

			Mallika Prabhakar 2019CS50440
11	Design and Development of Innovative Non-mechanical tracking Solar concentrator for multipurpose sunlight harvesting	Prof. D S Mehta	Mayank Gupta 2015PHZ8388 Virendra Kumar 2017PHZ8411 Ayan Halder 2018PHS7124 Shivan Trivedi 2019PHA2132

Additional Information: IRD will provide the grant up to Rs. 2 Lakhs per year to the faculty mentor for purchase of consumables, etc. Depending upon the progress and performance, the duration of the project may go up to 4 to 5 years. The project will be evaluated yearly.

Note:

- 1) The approved project proposal can now be initiated in IRIS in "New Project Initiation" (NPI) with the start date as 01 January, 2020 and end date as 31 December, 2020 with the per year budget.
- 2) Addition and deletion of students be done with prior permission of Mentor and IRD.