

1234 Discover and Learn Projects Sanctioned During FY 2016-17

Project No.	Title	Sanctioned Funds (Rs.)	Start Date	Scheduled Completion Date	Mentor (Prof.)	Students Involved
MI01503	Design & Implementation of Visible Light Communication (VLC) Link for Commercial Use	400000.00	10-03-2017	09-03-2021	MANAV BHATNAGAR Dept. of Electrical Engineering	<p>Shubham Nirbhay Entry No. 2013EE10496 Dept. of Electrical Engineering</p> <p>Akshunn Jindal Entry No. 2014EE10424 Dept. Of Electrical Engineering</p> <p>Abhilash Soni Entry No. 2015EE10422 Dept. of Electrical Engineering</p> <p>Arpit Singh Entry No. 2016EE10472 Dept. of Electrical Engineering</p>
MI01504	Improving the Mechanical Properties Soil Through Bio-cementation	335000.00	10-03-2017	09-03-2021	VENKATA RAMANA GUNTURI Dept. of Civil Engineering	<p>Amir Tophel Entry No. 2013CE10326 Dept. of Civil Engineering</p> <p>Sheikh Mohd. Yahya Entry No. 2014CE10378 Dept. of Civil Engineering</p> <p>Lokesh Kumar Entry No. 2015CE10337 Dept. of Civil Engineering</p> <p>Shanu Singhal Entry No. 2016CE10218 Dept. of Civil Engineering</p>

MI01505	Piezoelectric energy harvesting (PEH) from human, outdoor wind and HVAC induced vibrations	330000.00	10-03-2017	09-03-2021	SURESH BHALLA Dept. of Civil Engineering	<p>Diwakar Vikram Singh Entry No. 2013CE10341 Dept. of Civil Engineering</p> <p>Abhishek Arunachalam Entry No. 2014CE10851 Dept. Of Civil Engineering</p> <p>Hemant Goyal Entry No. 2015CE10328 Dept. of Civil Engineering</p> <p>Adarsh Agarwal Entry No. 2016CE10213 Dept. of Civil Engineering</p> <p>Saumav Kapoor Entry No. 2014EE10482 Dept. of Electrical Engineering</p>
MI01506	Magnetization Dynamics in Ferromagnetic/Antiferromagnetic Heterostructures	400000.00	10-03-2017	09-03-2021	PRANABA KISHOR MUDULI Dept. of Physics	<p>Amitesh Singh Entry No. 2013PH10831 Dept. of Physics</p> <p>Rohit Rathi Entry No. 2014PH10818 Dept. of Physics</p> <p>Ketaki Wasnikar Entry No. 2015PH10809 Dept. of Physics</p> <p>Suraj Goel Entry No. 2016PH10550 Dept. of Physics</p>

MI01507	Design and fabrication of heterojunction silicon solar cells	400000.00	10-03-2017	09-03-2021	VAMSI KRISHNA KOMARALA Centre for Energy Studies (CES)	Utsav Naha Entry No. 2013EE10510 Dept. of Electrical Engineering Shailendra Dhakad Entry No. 2014PH10823 Dept. of Physics Vishnu Raghuraman Entry No. 2015PH10837 Dept. of Physics Govind Nanda Entry No. 2016PH10548 Dept. of Physics
MI01508	A real time bio-mechanical monitoring system for fall assessment in elderly population	400000.00	10-03-2017	09-03-2021	DEEPAK JOSHI Centre for Biomedical Engineering	Gautam Kumar Entry No. 2013ME10666 Dept. of Mechanical Engineering Mithool Jain Entry No. 2014EE30007 Dept. of Electrical Engineering Moulik Choraria Entry No. 2015EE30112 Dept. of Electrical Engineering Sankalp Garg Entry No. 2016EE10440 Dept. of Electrical Engineering

MI01509	Concept tagging model for short text conceptualization	34000.00	10-03-2017	09-03-2021	NILADRI CHATTERJEE Dept. of Mathematics	Harshdeep Gupta Entry No. 2013MT60597 Dept. of Mathematics Saksham Singh Kushwaha Entry No. 2014MT10608 Dept. Of Mathematics Yogesh Gupta Entry No. 2015MT60545 Dept. of Mathematics Prateek Goyal Entry No. 2016MT10606 Dept. of Mathematics
MI01510	To study and develop a Battery Management System (BMS) for Li-Ion cell	400000.00	10-03-2017	09-03-2021	AMIT GUPTA Dept. of Mechanical Engineering	Nikesh Bisht Gupta Entry No. 2012ME10690 Dept. of Mechanical Engineering Shubham Entry No. 2014PH10828 Dept. of Physics Arnav Karan Entry No. 2015BB10029 Dept. of Biochemical Engineering & Biotechnology Mayank Raj Yogi Entry No. 2016TT10897 Dept. of Textile Technology

MI01511	Multimodality Image segmentation & 3D printing for medical imaging	400000.00	10-03-2017	09-03-2021	AMIT MEHNDIRATTA Centre for Biomedical Engineering	<p>Jayant Culli Entry No. 2013EE10448 Dept. of Electrical Engineering</p> <p>B. Nishith Reddy Entry No. 2013EE10443 Dept. of Electrical Engineering</p> <p>Pankaj Yadav Entry No. 2014BB10047 Dept. of Biochemical Engineering & Biotechnology</p> <p>Aashish Boora Entry No. 2015EE10444 Dept. of Electrical Engineering</p> <p>Satyageet Yadav Entry No. 2016BB10053 Dept. of Biochemical Engineering & Biotechnology</p>
MI01512	Controlling particle size in reactive precipitation in circular coiled flow reactors	400000.00	10-03-2017	09-03-2021	VIKRAM SINGH Dept. of Chemical Engineering	<p>Chaitanya Bhatraju Entry No. 2013CH10077 Dept. of Chemical Engineering</p> <p>S.L.S. Akhilesh Entry No. 2014CH10126 Dept. of Chemical Engineering</p> <p>Abhishek Singh Entry No. 2015CH10075 Dept. of Chemical Engineering</p> <p>Sukriti Gupta Entry No. 2016CH10084 Dept. of Chemical Engineering</p>

MI01513	Development of a mobile application for crowdsourcing geo tagged event data	385000.00	10-03-2017	09-03-2021	SUBRAT KAR Dept. of Electrical Engineering	Matta Joshua Shushan Roy Entry No. 2011EE30471 Dept. of Electrical Engineering Vibhor Dodeja Entry No.2014EE10493 Dept. of Electrical Engineering Pranav Verma Entry No.2015EE30528 Dept. of Electrical Engineering Deepak Chaurasia Entry No. 2016MT10631 Dept. of Mathematics
MI01514	Development of a vibration based diagnostic interface for rotating machinery	400000.00	10-03-2017	09-03-2021	ASHISH KAMALAKAR DARPE Dept. of Mechanical Engineering	Suyash Agarwal Entry No. 2013ME10731 Dept. Of Mechanical Engineering Anuj Mittal Entry No. 2014EE10428 Dept. of Electrical Engineering Aishwary Srivastava Entry No. 2015EE30507 Dept. of Electrical Engineering Utkarsh Reniwal Entry No. 2016TT10865 Dept. Of Textile Technology

MI01515	Preparing a carbon fibre reinforced polymer chassis for a formula student race care	373000.00	10-03-2017	09-03-2021	JAYANT JAIN Dept. of Applied Mechanics	Anurag Acharya Entry No. 2013ME10648 Dept. of Mechanical Engineering Anubhav Sharma Entry No. 2014CE10320 Dept. of Civil Engineering Kanu Raj Anand Entry No. 2015ME10651 Dept. of Mechanical Engineering Faraz Mazhar Entry No. 2016ME10705 Dept. of Mechanical Engineering
MI01516	3 Dimensional CFD design of full aero-package for Formula Style Race-car	385000.00	10-03-2017	09-03-2021	S.N. SINGH Dept. of Applied Mechanics	Dhawal Jain Entry No. 2013ME20777 Dept. of Mechanical Engineering Gaurav Kumar Entry No. 2014PH10795 Dept. of Physics Prakhar Kumar Mahobia Entry No. 2015ME10666 Dept. of Mechanical Engineering Prabhat Kanaujia Entry No. 2016ME20789 Dept. of Mechanical Engineering

MI01517	Control system and instrumentation for a driverless car	380000.00	10-03-2017	09-03-2021	SHUBHENDU BHASIN Dept. of Electrical Engineering	Rushikesh Arunrao Handal Entry No. 2013ME10667 Dept. of Mechanical Engineering Omkar Sudhir Patil Entry No. 2014ME20743 Dept. of Mechanical Engineering Samarth Patil Entry No. 2015EE30535 Dept. of Electrical Engineering Kushagra Goyal Entry No. 2016ME10703 Dept. of Mechanical Engineering
MI01518	Corporate social responsibility and its impact	400000.00	10-03-2017	09-03-2021	KANIKA TANDON BHAL Dept. of Management Studies	Swapna Joshi Entry No. 2016SMF6617 Dept. of Management Studies Arpit Bhatia Entry No. 2016SMT6714 Dept. of Management Studies Askshay Ganjoo Entry No. 2015SMF6582 Dept. of Management Studies Varun Vijn Entry No. 2015SMF6531 Dept. of Management Studies

MI01519	Design and development of an app-controlled acupressure device	400000.00	10-03-2017	09-03-2021	TAPAN KUMAR GANDHI Dept. of Electrical Engineering	Shubham Nirbhay Entry No. 2013EE10496 Dept. of Electrical Engineering Nikhil Gupta Entry No. 2014EE10463 Dept. of Electrical Engineering Rakesh Kumar Entry No. 2015EE30531 Dept. of Electrical Engineering Sahil Entry No. 2016CH10115 Dept. of Chemical Engineering
MI01520	Automatic essay scoring	34000.00	10-03-2017	09-03-2021	NILADRI CHATTERJEE Dept. of Mathematics	Mridul Krishna Entry No. 2013MT60603 Dept. of Mathematics Gautam Jain Entry No. 2014MT10590 Dept. of Mathematics Ayush Singhal Entry No. 2015MT60556 Dept. of Mathematics Vasu Singh Entry No. 2016MT60660 Dept. of Mathematics

MI01521	Metabolic analysis and engineering for alleviating metabolic burden associated with recombinant protein production	400000.00	10-03-2017	09-03-2021	ASHISH MISRA Dept. of Biochemical Engineering & Biotechnology	<p>Kshitij Rai Entry No. 2013BB50018 Dept. of Biochemical Engineering & Biotechnology</p> <p>K. Vinay Entry No. 2014BB10042 Dept. of Biochemical Engineering & Biotechnology</p> <p>Ayush Agarwal Entry No. 2015MT60554 Dept. of Mathematics</p> <p>Satyageet Yadav Entry No. 2016BB10053 Dept. of Biochemical Engineering & Biotechnology</p>
MI01522	Reprogrammable autonomous robot (RoboMuse)	400000.00	10-03-2017	09-03-2021	SUBIR KUMAR SAHA Dept. of Mechanical Engineering	<p>Varan Gupta Entry No. 2013ME10737 Dept. of Mechanical Engineering</p> <p>Amal George M Entry No. 2014PH10784 Dept. of Physics</p> <p>Rohit Patel Entry No. 2014ME20757 Dept. of Mechanical Engineering</p> <p>S. Balaji Entry No. 2015PH10821 Dept. of Physics</p> <p>Avinash Bairwa Entry No. 2016ME10723 Dept. of Mechanical Engineering</p>

MI01523	Development of an engine control unit for combustion of engines.	385000.00	10-03-2017	09-03-2021	M.R. RAVI Dept. of Mechanical Engineering.	Sahitesh Reddypally Entry No. 2013EE10490 Dept. of Electrical Engineering Badugu Sathvic M Entry No. 2014EE30504 Dept. of Electrical Engineering Tanmay Thareta Entry No. 2015EE30542 Dept. of Electrical Engineering Pratham Mehta Entry No. 2016CH10100 Dept. of Chemical Engineering
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