

### TEQIP III Supported Student Innovative/Research Projects - 2018-19

SL	Title of the Project	Name of Student (Project Leader)	Name of Guide&Dept	Status
1	Remotely operated cleaning vehicle for aquatic environment	Mr. S. Umamaheswaran, B150176EC & 4 others	Dr.Sudheer A.P, MED	Completed
2	Adjustable Bed	Mr. Jubin Mathew, B1500550EE & 2 others	Dr.Sudheer A.P, MED	Completed
3	Special Wheel Chair	Mr. Vishnu S, B1600495EE & 2 others	Dr. Sudheer A.P, MED	Completed
4	Riggu-Semi Humanoid Robot	Mr. Uday Girish, B150606ME & 5 others	Dr. Sudheer A.P, MED	Completed
5	Design and control of 2D of mechanism to assist therapist in knee rehabilitation	Mr. M.Uday Girish, B150606ME & 3 others	Dr. M.L. Joy & Dr. Ashesh Saha, MED	Completed
6	Design and Manufacturing of an Elbow Exoskeleton for assisting weight	Mr. Abien George Cherian, B150060ME & 3 others	Mr. Sreenath A M, MED	Completed
7	Utilization of waste heat from domestic gas stove	Mr. Vattimanoj Kumar, B150546ME & 3 others	Dr. K. Sekhar, MED	Completed
8	Design and Fabrication of exoskeleton for the augmentation of lower limbs	Mr. Ashwin S. Nambiar, B150299ME & 3 others	Dr. P.K. Rajendrakumar & Dr. U.B. Jayadeep, MED	Completed
9	Development of a novel process to upcycle used metallized polypropylene film packing	Mr. Kevin Joseph Mammen, B150048ME & 3 others	Dr. P.B. Dhanish, MED	Completed
10	Design and fabrication of an experimental setup to demonstrate stress stiffening effect	Mr. Gopakumar M, B150014ME & 5 others	Dr. U.B.Jayadeep, MED	Completed
11	Design, Fabrication and performance analysis of solar dryer with multipass V corrugated collector and PCM	Mr. Abaad Jubin Abdul Jabbar, B150206ME & 3 others	Dr. Arun P, MED	Completed
12	Development of a compact loop heat (LHP) with a binary fluid and sintered composite wick	Mr. Ashwin Joseph Mathews, B150401ME	Dr. S. Jayaraj & Dr. Sujith Kumar C S, MED	Completed
13	Experimental study on geopolymers mortar with different types of clay	Mr. Ajay M, B151076CE & 2 others	Ms. Reesha Bharath, CED	Completed
14	Improving the pozzolanic activity of rice husk	Mr. Nikhil Nalin, B140576CE & 3 others	Ms. Reesha Bharath, CED	Completed
15	Synthesis of white graphene nanoparticle for thermal conductivity application	Ms. P.V. Bindu Bhargavi, B150556CH & 3 others	Dr. Prasanna Kumar Mural, CHED	Completed
16	Development of layered double hydroxide incorporated PEI membranes with enhanced	Mr. Yuvaraj M, B150884CH & another	Dr. Noel Jacob Kaleekkal, CHED	Completed
17	Preparation and characterization of nanoparticles enhanced bio lubricant	Mr./Ms. Afra Anan, B150962CH & 3 others	Dr. Lity Alen Varghese, CHED	Completed

18	Designing a cost effective and more efficient electrochemical reactor	Mr. Deepak Anil, B150501CH & 3 others	Dr. V. Sivasubra-manian, CHED	Completed
19	Synthesis of bioplastic using keratin and polyol	Mr./Ms. Harshini Venkatraman, B150828CH & 3 others	Dr. K. Haribabu	Completed
20	Direct integration of large area perovskite PZl thin film on diamond sustrate for high frequency sae device applications	Ms. Jayanthi Swijitha, B150697EP	Dr. Maneesh Chandran, Physics	Completed
21	Optically controlled droplet transport	Mr. Arroodd U R, B150626EP & 3 others	Dr. Subramanilan Namboodiri V, Physics	Completed
22	Design and Development of a photothermal agent for the decomposition of polyethylene terephthalate (PET)	Mr. Tijin Hanno Geo Saji, B150070EP	Dr. Aji Anappara, Chemistry & Dr. Parameswaran Pattiyil, Physics.	Completed
23	Efficiency enhancement of organic solar cells using plasmonic effects of metal nanostructures	Mr./Ms. Nischala Bandla, B151066EP & 2 others	Dr. Vari Shivaji Reddy, Physics	Completed
24	Compaaaaaaatibility study of transformer parts with nanofilled natural ester	Ms. Archana Jha, B150826EE & 3 others	Dr. Preetha P, EED	Completed
25	Disaster management and rescue operations using swarm robots	Mr. Jubin Mathew, B1500550EE & 3others	Dr. Preetha P, EED	Completed
26	Design and development of cost effective air purifier	Mr. Deepak George Joseph, B150217ME & 5 others	Dr. V. Sajith, SNST	Completed
27	Conversion of agro wate to wealth fuel and paper	Mr. Arjun M, B150179CH & 3 others	Dr. Aparna K, CHED	Completed

### TEQIP III Supported Student Innovative/Research Projects - 2019-20

SL	Title of the Project	Name of Students	Name of Guide & Dept.	Status
1	Application of BlockchainTechnology for Medical Implants, Prosthetics and wearable Medical devices	Dheeraj Mohan, B160471CS	Dr. Vinod Pathari CSED, Dr Deepak Lawrence MED	Ongoing
		Neeraja P, B160118CS		
		Lakshmi Alwin, B160270CS		
2	Two Phase heat sink embedded with copper nano wire for simulated electronic device cooling	Josyula VVSM Raghavendra Kasyap, B160883CH	Dr. Sudev Das CHED	Ongoing
		Jay Prakash Paswan, B160905CH		
		Sree Hari TK, B150312CH		
3	Borewell Rescue Robot	S Gopi Krishna, B160119EC	Dr. S Gopikrishna ECED	Ongoing
		B Ratna Sandesh, B160673EC		
		Kirti Namade, B160842EC		
		Bhavana , B160533EC		
		Anjana Vijaykumar, B160176EC		
4	Experimental investigation on a novel design of an air handling unit for fresh air treatment in tropical monsoon climate	Deepak Kumar, B160676ME	Dr. C Muraleedharan MED	Ongoing
		Shabnan Hussain, B160876ME		
		Mohammed Khalid Sait, B160073ME		
		Abhiram Hari, B160772ME		
		,		
5	Design and Analysis of Solar Drying Chamber	T L Sathwik, B160544ME	Dr. Rohini Kumar MED, Dr. C Muraleedharan MED	Ongoing
		A Vamsi Vardhan Reddy, B160919ME		
		Goutham Sai Gudla, B160924ME		
		Gogarla Abhilash, B160554ME		
6	Energy harvesting through subcutaneous perovskite Solar cells and effect of melanin content on power conversion efficiency	Subinraj T Sunil, B160436ME	Dr. Hanas T SMSE	Ongoing
		Sabit Abdul Khadev, B160179ME		
		Sarath Philip Mathew, B160425ME		
		Rhea Francis, B160730ME		
7	Performance evaluation of Hybrid Nanoparticle Infused cutting fluid with MQL technique in turning operation	Bharat Gandhi, B160572ME	Dr. Shijo Thomas, SMSE	Ongoing
		Anmol P Desai, B160917ME		
		Kamat Anuj Ajay, B160646ME		
		Y Varaprasad, B160339ME		
8	Design, analysis and fabrication of a power assisted electric cycle with series and	Ashish T Vasant, B160096ME	Dr. Sudheer A P MED	Ongoing
		Nihal Saji, B160234ME		

	parallel elastic actuators	Deepak K, B160107ME Srihari K, B120718ME		
9	Design and development of IoT based modern E-Bicycle	K Hemanth , B160843EE G Jasnavi, B160777EE Juhika, B160718EE Ajitha , B160647EE	Dr. V Karthikeyan EED	Ongoing
10	Development of Aluminium hybrid metal matrix composites by powder metallurgy method	Derkar Ashitosh, B160590ME Raushan Kumar, B160288ME Saikiran Boda, B160560ME Sai Teja, B160559ME Prerit Wah, B160706ME	Dr. K Sekar, MED	Ongoing
11	Spike Test Monitor	Meghana Hari, B160778EC Arunima B Krishna, B160370EC Nanditha Krishna Kumar, B160128EC Naveen CP, B160496EC Neha Pradeep, B160221EC Shamleena Begum, B140158EC	Mr. Raghu CV ECED	Ongoing
12	Magnet less Loud speaker based on Photo-Thermo-Acoustic Effect	Tijo Thomas, M180480PH	Dr. Aji A Anappara Physics, Dr. Raghu C V ECED	Ongoing
13	Design and Fabrication of an Experimental Setup to Demonstrate Stress Stiffening Effect	Aarya Pandey, M180221ME	Dr. Jayadeep U B MED	Ongoing
14	Design, fabrication and control of a mobile parallel robot for co-ordinated tasks.	Isaac John, M180307ME	Dr. A P Sudheer MED	Ongoing
15	Design, fabrication and testing of robot mechanism for cleaning the debris on platform side railway track	Kasindi Deepak, M180110ME	Dr. Vineesh K P MED, Dr A P Sudheer MED	Ongoing
16	Estimation of energy expenditure and development of ergonomic interventions in plogging activity	Rahul Raghavan, M180039ME	Dr. Vinay V Panicker MED	Ongoing
17	Solar powered hot water system using non-tracking concentrating collector for day and night operation	Hari Govindha A, M180086ME	Dr. Shijo Thomas, SMSE	Ongoing

