



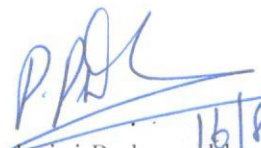
**BIRLA INSTITUTE OF TECHNOLOGY
MESRA, RANCHI**

Ref.: Dean (AP)/2018-19/38

Date: 16/08/2019

NOTICE

B.E. and M.E. /M.Tech. final year students whose project proposals (2019-20) have been approved by the Institute is enclosed in the list along with the amount sanctioned for each projects.


(Dr. Padmini Padmanabhan)
Dean (Academic Programme)

Copy to:

1. Concerned Head of the Departments – with a request to circulate amongst Students and the concerned Guide(s)
2. Dy. Comptroller/Dy. Finance Officer.
3. All Deans
4. Registrar
5. PS to the Vice-Chancellor.
6. Notice Board
7. Institute website

Encl.: List of Sanctioned Projects (Page:1-5).

LIST OF PROJECTS FOR B.E. AND M.E./M.TECH. FINAL YEAR STUDENTS (2019-20)

Project	No.	Amount
UG	43	1,614,530.00
PG	24	1,887,563.00
Total	67	3,502,093.00

Sl. No.	Name of the Student(s)	Roll No.	Dept.	Project Title	Name of the Guide(s)	Project (UG/PG)	Amount Sanctioned
1	Charles Benny Ankit Raj Anukool Khare	BE/10443/16 BE/10467/16 BE/10477/16	Mech. Engg.	Fabrication and Analysis of Overall Performance of Building Integrated Photovoltaic Thermal System with Inbuilt Water heating system	Mr. Shalin	UG	38,000.00
2	Balajee Suryavanshi Aniket Sinha Satva Vardhan	BE/10202/16 BE/10091/16 BE/10453/16	Mech. Engg.	Design Analysis and Fabrication of a Vibration Absorber for Controlling Vibration Produced in a Beam	Dr. Faisal Rahmani	UG	24,000.00
3	Anupam Kumar Abhishek Choudhary Sanket Singh	BE/10124/16 BE/10164/16 BE/10550/16	Mech. Engg.	Design, analysis, manufacturing and testing of electromagnetic clutch	Dr. Inayath N.	UG	30,000.00
4	Dilip Ginodia Abhinav Prakash Abhishek Mishra	BE/10542/16 BE/10528/16 BE/10499/16	Mech. Engg.	Effect of Inclination on a Liquid-Liquid flow through T-Junction	Dr. Mukesh Sharma	UG	25,000.00
5	K. Seenivas Prasad D.V. Sasidhar Reddy B. Mahesh Reddy	BE/10200/16 BE/10340/16 BE/10366/16	Mech. Engg.	Design, Analysis, Fabrication and Testing of Brake Master Cylinder for an All-Terrain Vehicle	Dr. Om Prakash Pandey	UG	35,000.00
6	Aarav Mehta Ankur Singh Sanchit Kumar	BE/10186/16 BE/10196/16 BE/10323/16	Mech. Engg.	Design of Tricycle for Differently Abled Person	Dr. Chandras Patel	UG	38,000.00
7	Roshan Topno Atul Anand Phuleswar Baitha	BE/10150/16 BE/10153/16 BE/10135/16	Mech. Engg.	Design and Development of Eco-friendly cutlery out of paper waste through molding - next generation waste management	Mr. Shazee Rahmani Dr. Richa Pandey	UG	50,000.00
8	Manish Anand Anant Vibhaw Lakra Shwetansh Giri	BE/10017/16 BE/10116/16 BE/10336/16	Mech. Engg.	Performance analysis of solar still using nano materials	Dr. Praveen Mishra	UG	38,000.00
9	Abhishek Mahapatro Vedant Raj Shubham Sharma	BE/10160/16 BE/10169/16 BE/10589/16	Mech. Engg.	Design and development of serial robot training cell for academic purposes	Dr. Arun Dayal Udai	UG	50,000.00

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Sl. No.	Name of the Student(s)	Roll No.	Dept.	Project Title	Name of the Guide(s)	Project (UG/PG)	Amount Sanctioned
10	Shashank Mittal Aditya Sinha Abhishek Jakhmola	BE/10156/16 BE/10392/16 BE/10426/16	Mech. Engg.	Design and fabrication of power generating speed breakers	Dr. Sujeet Kumar Mishra	UG	30,000.00
11	Shrawan Kumar Pintu Kumar Nikhil Dev	BE/10020/16 BE/10038/16 BE/10293/16	Mech. Engg.	Gearbox design stability, analysis and enhancement of turbomixer	Dr. Paritosh Mahata	UG	21,000.00
12	Akshat Kumar Madhumita Samad Pragna Nannapaneni	BE/10131/16 BE/10201/16 BE/10344/16	Mech. Engg.	Design and Fabrication of Mechanical Stirrer for Mixing of Organic Waste in BioGas Plant for Rural India	Dr. Rajeev Kumar	UG	48,000.00
13	Chandan Kumar Mandal Tanmay Prakash Sambhu Kumar Choudhri	BE/10046/16 BE/10074/16 BE/10086/16	Mech. Engg.	Design of cascade solar still for household capacity	Dr. Dhaneshwar Mahato	UG	23,000.00
14	Rithwik M. Nair Yash Singhania Dishank Aryan	BE/10268/16 BE/10279/16 BE/10282/16	Mech. Engg.	Customized 3D Printed Ankle-Foot Orthosis (AFO) with Flexible Spring Support Joint through Reverse Engineering and Rapid Prototyping	Dr. Pranith Kumar Reddy Dr. Richa Pandey	UG	25,000.00
15	Ashish Siddharth	MT/MEC/10005/18	Mech. Engg.	Design and development of 3-DoF parallel platform for virtual simulator with pneumatic actuators and VR	Dr. Arun Dayal Udai	PG	100,000.00
16	Sri Satya Omkar Dadi	MT/CAAD/10003/18	Mech. Engg.	Bobbin Tool Friction Stir Welding of Aluminium to Copper	Dr. Chandras Patel	PG	99,000.00
17	Ravi Kumar Thakur	MT/CAAD/10002/18	Mech. Engg.	Design and Development of low cost loading and unloading mechanism with hydraulic tilting operation	Dr. Richa Pandey	PG	99,000.00
18	Durgesh Kumar	MT/MEC/10013/18	Mech. Engg.	Effect of Inclination of Return Bend on High Viscous Oil-Water Flow	Dr. Mukesh Sharma Dr. Richa Pandey	PG	47,000.00
19	Malwika Choudhary	MT/MEC/10003/18	Mech. Engg.	Design and development of solar operated thermoelectric refrigeration system and its improvement	Dr. Dhaneshwar Mahto	PG	45,455.00
20	C. Renuka P.Likhitha K. Saiteja	BE/10549/16 BE/10345/16 BE/10331/16	ECE	Thermal Image Processing	Dr. Prajna Parimita Das	UG	30,000.00
21	Swapnil Modani Sarkthak Ladhani Parika Vyas	BE/10389/16 BE/10390/16 BE/10445/16	ECE	Advanced Surveillance System	Dr. Rajeev Sharma	UG	27,000.00
22	Manas Ranjan Swain Ankur Ojha Mohit Bihany	BE/10173/16 BE/10330/16 BE/10070/16	ECE	Monitoring of Trash-Bins using Internet of Things (IoT)	Dr. Priyank Saxena	UG	35,000.00
23	Nizamuddin	MT/EC/10002/18	ECE	Wide band Dielectric Resonator Antenna for Microwave/Millimeter Wave Application	Prof. Srikanta Pal	PG	100,000.00
24	Rani Ankita	MT/EC/10004/18	ECE	Vehicle Flow Indication and Identification Using Fiber Bragg Grating Sensors.	Prof. S.K. Ghorai	PG	75,000.00

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25	Abhinav Anand Aditya Rishi Anuj Kapoor	BE/10244/16 BE/10495/16 BE/10506/16	EEE	Cloud-Based Data Processing and Visualization of Sensor Data taken from a Local Power System	Ms. Nishtha Bajoria	UG	35,000.00
26	V. Prashant Jyer Devensh Khanda Pooryi Roy	BE/10341/16 BE/10377/16 BE/10386/16	EEE	Design of Solar Power Fed Converter for BLDC Motor	Dr. P. R. Thakura	UG	49,250.00
27	ASHMIKA SOURYA KRISHNA SUNITA KUMARI	BE/10296/16 BE/10315/16 BE/10530/16	EEE	Design of Embedded System for IOT (Internet of Things) Based Monitoring and Control of BMS (Battery Management System)	Ms. Nishtha Bajoria	UG	47,700.00
28	HARSHIT RAJ RAJARSHI MUKHERJEE	BE/10185/16 BE/10284/16	EEE	Design of Traction Drive for EV (Electrical Vehicle)	Dr. Aftab Alam	UG	50,000.00
29	Richa Raj Pallavi Singh Samrat Chakraborty	BE/10055/16 BE/10123/16 BE/10145/16	EEE	Development of Vehicle to Grid Energy Management System	Dr. Tarkeshwar	UG	44,000.00
30	P. N. Tejaswani J. Nikhita Reddy Sikha Arunima Lakra	BE/10192/16 BE/10254/16 BE/10111/16	EEE	Power Factor Correction Using Bridgeless SEPIC Converter for LED Drive Application	Dr. S. Shiva Kumar	UG	24,000.00
31	Somesh Krishna Krishan Thanvi	MT/EE/10015/18	EEE	Solar Photovoltaic Grid Interfacing using Phase Locked Loop (PLL)	Dr. S. Shiva Kumar	PG	98,027.00
32	P Arvind	MT/EE/10012/18	EEE	Closed Loop Control of Three Phase Boost Inverter	Prof. (Dr.) P. R. Thakura	PG	76,030.00
33	Shiv Aditya Chatterjee	MT/EE/10011/18	EEE	Development of Laboratory Prototype of Three Bus AC-DC Hybrid Grid with Proper Control Strategy	Dr. T. Ghose Dr. Aftab Alam	PG	100,000.00
34	Rohit Kumar	MT/EE/10009/18	EEE	Design and Testing of Phasor Measurement Unit (PMU)	Dr. (Mrs. Sarbani Chakraborty) Dr. Debomita Ghosh	PG	99,855.00
35	Amit Kumar De	MT/EE/10010/18	EEE	Estimation of State of Charge and State of Health for Lithium-ion Battery for Cell Balancing	Dr. Tarkeshwar	PG	100,000.00
36	Akash Singh	MT/EE/10006/18	EEE	Study & Analysis of Impact of Charging of Plug-in Hybrid Electric Vehicle on Residential Distribution Grid & Maximization of Power Quality with Reactive Power Support Along with Grid Integration	Dr. Aftab Alam Mrs. Sushma Kamlu	PG	55,447.00
37	Rajesh Saikrishnapati	MT/EE/10003/18	EEE	System Integrity Protection Scheme for Generation Control	Dr. Debomita Ghosh	PG	99,960.00
38	Sourav Chakraborty	MT/EE/10004/18	EEE	Integrated IOT Based Solar PV MPPT and V-F Control for Stand-Alone Microgrid with Battery Management System	Dr. Deepak Kumar	PG	88,200.00

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39	B. Sreenivasa Venkatraman	MT/EE/10005/18	EEE	Generation of High-Fidelity Model of Induction Motor for Model Based Control System Design and Experimental Validation and Comparison with PMSM and PMBLDC Motor	Mr. Gauri Shanker Gupta	PG	67,000.00
40	Kundan Kr. Manish Rasheb Aman Agarwal	BE/10125/16 BE/10533/16 BE/10513/16	Civil & Env. Engg.	Seasonal assessment of surface water & soil of catchment area of Getalsud & Kanke watershed with special emphasis on heavy metal analysis	Dr. Neeta Kumari	UG	50,000.00
41	Rahul Arunav Mallik	BE/10130/16 BE/10068/16	Civil & Env. Engg.	Use of plastic wastes as fine aggregates & reinforcing admixtures in concrete	Dr. Sukalyan Chakraborty	UG	31,280.00
42	Priyanshu Kr. Naman Shah Saurav Kr. Thakur	BE/10384/16 BE/10551/16 BE/10554/16	Civil & Env. Engg.	Carbonation study on blended concrete	Mr. Mani Mohan	UG	37,800.00
43	Sarvajeet Saurabh	MT/ENV/10004/18	Civil & Env. Engg.	To remove heavy metal contamination from soil by using biochar	Dr. Tanushree Bhattacharya	PG	75,000.00
44	Vicky Singh	MT/ENV/10002/18	Civil & Env. Engg.	Microplastics in surface water, sediments & fishes of freshwater systems	Dr. Sukalyan Chakraborty	PG	82,500.00
45	Roushan Kr.	MT/CE?10020/18	Civil & Env. Engg.	Geopolymer concrete mix design	Dr. Birendra Kr. Singh	PG	16,000.00
46	Ms Saria Parween	MT/CS/10013/18	CSE	Artificial Intelligence Based Precision Agriculture	Dr. Itu Snigdha	PG	14,089.00
47	Avipsha Mukherjee Manu Kumar	BE/10693/16 BE/10626/16	Bio-engg.	Optimization of light Intensity for Efficient Melatonin Production using fuzzy interface system	Dr. Anjana Dwivedi	UG	25,000.00
48	Gyandeep Kumar Abhinav	BE/10059/16 BE/10640/16	Bio-engg.	Optimization of significant parameters for lipase production from wheat	Dr. Soham Chattopadhyay	UG	20,000.00
49	Pawan Kumar	BE/10656/16	Bio-engg.	Production of Ethanol from Chickpeas	Dr. V.K. Nigam	UG	25,000.00
50	Kanishka Kunal	MT/BT/10004/18	Bio-engg.	Fabrication and Optimization of Polymeric Nanofibers for biomedical application	Dr. Sneha Singh, Dr. Padmini Padmanabhan	PG	100,000.00
51	Smally Sinha	MT/BT/10005/18	Bio-engg.	Development of process for biotransformation of nitriles into valuable products	Dr. V.K. Nigam	PG	50,000.00
52	Swastika Saha	MT/BT/10001/18	Bio-engg.	Development of bioprocess technology for the production of microbial bioflocculants for the treatment of textile waste effluent	Dr. Santosh Kumar Jha	PG	100,000.00
53	Zairah Waris	MT/BT/10002/18	Bio-engg.	Rheological behavior of Biosurfactant-flocculated in water in oil emulsions and vice versa	Dr. Padmini Padmanabhan	PG	100,000.00
54	Aman Keshri Shibesh Raj	BE/10615/16 BE/10685/16	Chem. Engg.	Modification of Shelac Based resin for fruit and Vegetable coating	Dr. Gautam Sarkhel Dr. Anupam Roy	UG	50,000.00

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Sl. No.	Name of the Student(s)	Roll No.	Dept.	Project Title	Name of the Guide(s)	Project (UG/PG)	Amount Sanctioned
55	Ambar Tripathi	BE/10704/16	Chem. Engg.	Effect residence time screw speed and ment temperature on tensile prop of nano composite.	Dr J Sudeepan	UG	49,500.00
56	Ashish Aryan + Sonu Routh	BE/10660/16 BE/10657/16	Chem. Engg.	Synthesis of Hydrophilic Polymer Based Nanocomposite	Dr S Goswami Dr Trishna Bal (Pharmacy)	UG	30,500.00
57	Sristhi Anuska Shivangi Singh	BE/10678/16 BE/10630/16	Chem. Engg.	Pulp and Paper from Jute Stick	Dr B C Ruidas	UG	30,000.00
58	Shalini Rajesh Bulendra	BE/10342/16 BE/10051/16 BE/10682/16	Chem. Engg.	Fabrication of Flexible Heteroatom doped porous carbon nanofibre mat for super capacitors applications.	Dr Arup Choudhury	UG	50,000.00
59	Akash Aakansha	BE/10702/16 BE/10695/16	Chem. Engg.	Development of phase change material base thermoplastic composite for potential applications	Dr Pulak Dutta Mrs Debeshree Ghosh	UG	50,000.00
60	Vijaya Laxmi	BE/10610/16	Chem. Engg.	Removal of Heavy metal ions from wastewater using biomas derived activated carbon and carbon nanomaterials	Dr G T Mohanraj	UG	48,500.00
61	Shiwendra Kumar Nikhil Kumar	BE/10676/16 BE/10698/16	Chem. Engg.	Estimation of heat transfer coefficient in a plate heat exchanger with transient analysis	Dr Arnav Karmakar	UG	50,000.00
62	Abhishek Kumar Navneet Khalkho Abhishek Raj	BE/10292/16 BE/10178/16 BE/10651/16	Chem. Engg.	Design and Development of low cost rain water Havesting system	Dr Pulak Dutta Mrs Debeshree Ghosh Dr Anupam Roy Dr Anand Bharti	UG	50,000.00
63	Shubham Srivastav Shubham K Ram	BE/10154/16 BE/10654/16	Chem. Engg.	Microwave pyrolysis of rice straw	Dr A K Sen	UG	50,000.00
64	Saunak Shilendra	BE/10617/16 BE/10608/16	Chem. Engg.	Photocatalytic removal of Dyes from waste water	Dr D Pandey	UG	50,000.00
65	Ripul Swaraj Sahil Oraon	BE/10688/16 BE/10612/16 BE/10637/16	Prod.Engg.	Designand development of vibration assisted welding process and testing their impact on weld properties.	Dr. Sanjay Kumar Jha	UG	38,000.00
66	Soumil Dutta Ujjawal Gautam Navin Kumar	BE/10318/16 BE/10603/16 BE/10694/16	Prod.Engg.	Analysis of weld defects with the help of ultrasonic flow detector	Dr. Sanjay Kumar Jha	UG	12,000.00
67	Aman Kumar Tiwary Shweta Basak Maheshwar Soren Akash Lal	BE/10594/16 BE/10629/16 BE/10590/16 BE/10662/16	Prod.Engg.	Functionally graded centrifugal casting almunium composites	Dr. JoyjeetGhosh	UG	50,000.00
							3,502,093.00

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