



Fr. C. Rodrigues Institute of Technology, Vashi
(An Autonomous Institute & Permanently Affiliated to University of Mumbai)

Department of Electrical Engineering

Major Project Details -Academic Year- 2025-26

G ro up N o.	Roll No.	Name of the Student	Title of the Project	Category –I (Internal/External), If external, mention Name of the Organization	Name of the Guide	Category-II Application /Product/ Research	SDG Mappe d
1	4022106	Borhade Omkar Rajesh	FPGA based RISC V SoC with Edge AI accelerator for Predictive maintenance in Industrial Motors	Internal	Mrs. Sreedevi Nair	Application	SDG8, SDG9
	4022113	Dhamaskar Faiz Sarfaraz					
	4022146	Suryawanshi Soham Ramesh					
	4022147	Tagyalkar Suhas Annarao					
2	4022124	Koyande Nandkumar Janardan	Triple Active Bridge Converter for Integrated Bidirectional Power Flow in the Two and Three- wheeler EV Ecosystem	Internal	Dr. Sushil Thale	Product	SDG7, SDG12
	4022135	Panda Satwik					
	4022151	Bamhane Jay					
	4022153	Dhotre Mayur					
3	4022154	Jadhav Rishikesh	Optimal Allocation & sizing of distributed generation & EVCS in distribution system	Internal	Mrs. Seema Jadhav	Research	SDG11, SDG13
	4022161	Raut Tushar					
	4022164	Sarak Shubham					
	4022169	Dinkar Sanket					



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4	4022109	\ Chaurasia Shagun	Microgrid based Standalone Solar Umbrella System	Internal	Mrs. Rashmi Kale	Product	SDG7, SDG13
	4022152	Geber De Sa					
	4022158	Sebastian Nadar					
	4022162	Ratnaparkhi Shrawan					
5	4022108	\ Chauhan Neena	Design & Development of DC-DC converter based MPPT System for Solar powered water pumping	Internal	Mrs. Nikita Jadhav	Application	SDG7, SDG12, SDG13
	4022112	\ Dewangan Isha					
	4022123	\ Khamkar Hrutuja Shrikant					
	4022157	\ Lugde Rani Govind					
6	4022134	Paluskar Sameehan	Hardware Implementation of Hybrid Z-source boost DC-DC converter	Internal	Dr. Mahendra Rane	Research	SDG7, SDG12
	4022155	Jagdale Sanket					
	4022159	Pandit Rohit					
	4022160	\ Paunekar Yogashwi					
7	4022107	Chaudhari Tanmay Manoj	Implementation of a Fault-Tolerant Neutral Point Clamped Multi-level inverter for UPS application	Internal	Dr. Mini R.	Application	SDG9, SDG12
	4022139	Pednekar Omkar Ganesh					
	4022142	Quraishi Yaseer Munsif Ahmed					
	4022145	Shravane Soham Shivaji					
8	4022111	\ Desai Manvi Shrinivas	Bidirectional DAB converter for EV charging Application	Internal	Mrs. Divya S.	Application	SDG7, SDG11
	4022120	Juwale Azm Fazal					
	4022121	Kamble Aryan Krantikumar					
	4022148	Tamankar Affan Liyakat					



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9	4022103	Bhoge Ramchandra	Design & Development of DC Microgrid	Internal	Ms. Misbah Khan	Product	SDG7, SDG13
	4022117	Hande Jay Datta					
	4022133	Nemade Mohanish Rajesh					
10	4022116	Guttula Teja Srinivas Rao	Investigation of Machine Learning-Based Cyber Attacks in SCADA-Enabled Grids	Internal	Dr. Bindu S.	Research	SDG8, SDG9
	4022128	Mathadu Ranvir Singh Jaspal Singh					
	4022132	\ Nandwani Kannan Manish					
	4022137	Patil Atharva Sanjay					
11	4022114	Epili Mahesh Sukuru	Real Time 3D reconstruction using stereo vision on FPGA with PYNQ Board	Internal (Need based Project)	Dr. Mini N.	Product	SDG8, SDG9
	4022127	Mardhekar Tejas Mahadev					
	4022138	Patil Hitesh Deepak					
	4022144	Shinde Soham Ajit					
12	4022104	Bhogle Gaurang Parag	Battery Management System of Electric Vehicle	Internal	Mrs. Ruchi Harchandani	Application	SDG7, SDG11, SDG12, SDG13
	4022105	\ Bist Khushi Kishore					
	4022163	Tekade Priyesh					
	4022168	Sharma Ishaan					
13	4022167	Shigam Shreyas	Improving EV Safety with IoT and AI	Internal	Guide-Mr.Rajendra S. , Co-guide-Dr. Bindu S.	Application	SDG8, SDG11
	4021104	Cyril William					
	4021110	Jadhav Vinit Mangesh					
	4021119	Mali Himanshu Radheshyam					



14	4022143	Rathod Ganesh Rameshwar	Implementation of Multilevel converter for Auxiliary Power Supply in Railways	Internal	Dr. Mini R.	Application	SDG8, SDG12
	4022156	\ Kadam Shruti					
	4022165	Zende Sanket					
	4022166	Yadav Yash					
15	4022125	Kudtarkar Shlok	Stability Analysis of Quadratic Boost Converter	Internal	Mr. Abhishek S.	Research	SDG9
	4022126	Kurle Prit Mukesh					
	4022131	Nadar Renel Anto Devarajan					
16	4022136	Parmar Hemantkumar Praveenkumar	Design & Development of SRM drive for E- Rickshaw	Internal	Dr. Bindu R.	Application	SDG7, SDG9, SDG13
	4022141	Prasad Shivam Santoshkumar					
	4022130	Morale Shekhar Navnath					
17	4022150	Yadav Anilkumar Ramachal	Development of a Solar Charge Controller using MPPT	Internal	Mrs. Nikita Jadhav	Application	SDG7, SDG12, SDG13
	4021111	Jagtap Sahil Sunil					
	4021118	Mahajan Yash					
	4021142	Tayade Atharva Narendra					

Mrs. Nikita Jadhav
Name and Signature of Project Coordinator

Dr. Mini R.
Name and Signature of Head of the Department