

External Funded Projects

S. No.	Project Title	Faculty	Funding Agency	Amount in lakhs	Duration (in Years)	Starting year	Year of Completion
1	Design of silicon carbide based hard switched DC-AC power Converter	Dr. B. L. Mathur (PI) Dr. R. Seyezhai (Co-PI)	AICTE - RPS	5	3	2007	2010
2	Matrix converter based Weak grid connected DFIG System	Dr. Ranganath Muthu (PI) Dr. M. Senthil Kumaran(Co-PI)	CWET (MNRE)	7.5	3	2011	2015
3	Design and Development of Z source cascaded MLI for PV applications	Dr. R. Seyezhai (PI)	AICTE	24.5	3	2013	2016
4	Design and Development of Flywheel based power conditioning system for a renewable energy fed Microgrid	Ms. M.Vijiyalakshmi (FT PhD Student) Dr. R.Ramaparaba (Scientist Mentor)	DST-Wos A	21	3	2014	2017
5	A Novel fused converter for SPV wind hybrid systems for powering rural telephony	Dr. V. Rajini (PI)	MNRE	34	2	2014	2016
6	Design and Development of Hybrid Switched Reluctance Motor Drive	Dr. M. Balaji (PI)	DST - SERB	22.9	3	2015	2018
7	Smart Street Lighting System	Mr. V. Thiyagarajan	Horizon Solutions Ltd	1	1	2015	2016
8	A low-cost minimal footprint single phase solidstate transformer for medium voltage applications	Dr. V. Rajini (PI)	AICTE - RPS	20	3	2016	2019

9	Design and Development of Axial Flux Switched Reluctance Motor based Battery-operated Vehicle	Dr. P. Saravanan (PI)	DST-SERB	41.76	3	2016	2018
10	Design and implementation of Trip wire alarm system for HEC mitigation in Forest Borders	Dr. R. Jayaparvathy (PI)	Government of Tamilnadu	5.5	1	2017	2018
11	Modernization of HV lab as a unified power engineering lab with electromechanical energy conversion power electronics and power systems experiments	Dr. V. Rajini (PI)	AICTE–MODROBS	19.54	1	2018	2019
12	A Robustly Optimal Energy Management System for High PV penetrated Smart Cities with A Case Study: Implementation of PVs for Smart Street Light Poles	Dr. Mrunal Deshpande	University of new South Wales (UNSW),Sydney	5.5	1	2018	2019
13	Modernization of Renewable Energy Conversion Laboratory	Dr. V. Kamaraj (PI) & Dr. R. Seyezhai (Co-PI)	AICTE-MODROBS	11	2	2019	2021
14	Design and Development of Energy Efficient Permanent Magnet Assisted Reluctance Motor Drives for Pump Application	Dr. V. Kamaraj (PI), Dr. M. Balaji & Dr. V S Nagarajan (Co-PIs)	DST - SERB	21.19	3	2019	2022
15	Radiation resilient RF receiver front end components through SIGs BICMOS: Design and validation	Dr. C. Premanand, Dr. K. K. Nagarajan (Co-PIs)	BRNS	32.5	3	2020	2023
16	Experimental analysis and optimization of electric Field distribution around polymeric insulators in Extra high voltage transmission lines	Dr. K. Usha (PI)	SERB	29.75	3	2022	2025

17	Design and Development of Replicable and Scalable Cyber Physical Micro Grid System”	Dr. R. Deepalaxmi (CO-PI), Dr. C. Vaithilingam VIT, Chennai (PI)	DST - India-Serbia, Bilateral STC	12.15	3	2023	2026
18	Assessment and Monitoring of Invasive Alien plant species in India and formulation of Strategies for management of key invasive alien plant species in different regions of the country	Dr. R. Jayaparvathy (PI), Dr.N.B. Muthu Selvan (CO-PI)	ICFRE-AICRP-7-Ministry of Environment, Forests and Climate change	31.15	5	2020	2025
19	Artificial Intelligence Techniques to Design and Development of Power Quality Monitoring System	Dr. V. Kamaraj (PI), Dr.R.Rengaraj (CO-PI)	Scheme for Promotion of Academic and Research Collaboration (SPARC)	50.53	2	2023	2025
20	Human Reliability Assessment and in-situ health monitoring for manned submersible crew	Dr.R.Jayaparvathy(PI)	Ministry of Earth sciences	46.36	3	2023	2026