

## 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	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	2	2013	2014
4	Design and Development of Z source cascaded MLI for PV applications	Dr. R. Seyezhai (PI)	AICTE	24.5	3	2013	2016
5	Design and Development of Flywheel based Power Conditioning System for a Renewable energy fed Micro grid	Ms. M. Vijayalakshmi (FT PhD Student) Dr. R. Ramaprabha (Scientist Mentor)	DST - WoS A	21	3	2014	2017
6	A Novel fused converter for SPV wind hybrid systems for powering rural telephony	Dr. V. Rajini (PI)	MNRE	34	2	2014	2016
7	Smart Street Lighting System	Mr. V. Thiagarajan	Horizon Solutions Ltd	1	1	2015	2016

8	Design and Development of Hybrid Switched Reluctance Motor Drive	Dr. M. Balaji (PI)	DST - SERB	22.18	3	2015	2018
9	A low-cost minimal footprint single phase solidstate transformer for medium voltage applications	Dr. V. Rajini (PI)	AICTE - RPS	20	3	2017	2020
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	Design and Development of Axial Flux Switched Reluctance Motor based Battery operated Vehicle	Dr. P. Saravanan (PI)	DST-SERB	5.5 Seed Money	1	2017	2018
12	Design and Development of Axial Flux Switched Reluctance Motor based Battery operated Vehicle	Dr. P. Saravanan (PI)	DST-SERB	36.26	3	2018	2021
13	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
14	Modernization of Renewable Energy Conversion Laboratory	Dr. V. Kamaraj (PI) & Dr. R. Seyezhai (Co-PI)	AICTE-MODROBS	11	2	2019	2021
15	Design and Development of Energy Efficient Permanent Magnet Assisted Reluctance Motor Drives for PumpApplication	Dr. V. Kamaraj (PI) Dr. M. Balaji & Dr. V S Nagarajan (Co-PIs)	DST - SERB	21.19	3	2019	2022
16	Assessment and Monitoring of Invasive Alien plant species in India and formulation of Strategies for	Dr. R. Jayaparvathy (PI)	Ministry of Environment, Forests and	31.15	5	2020	2025

	management of key invasive alien plant species in different regions of the country		Climate change				
17	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
18	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
19	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
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
21	Development of black phase Formamidine lead triiodide-based hybrid perovskite light absorber with improved thermal stability for solar cell applications	Dr Mrunal Deshpande (PI) Dr R Govindraj (Co-PI)	UGC DAE CSR	0.45	1	2023	2024
22	Eco-Friendly PSolar Photovoltaic Pole for Multi-utility	Dr. R. Seyezhai & Dr. D. Umarani	ANIHEES	--		2023	