

List of PhD Students- Power Electronics

PhD Completed

SI No.	Name & Roll No	Guide	Title	Scheme & Month (QIP/PT/ FT)
1.	Meenu D Nair P110099EE	Dr. Mukti Barai	Design Space Exploration Of Space Vector Pulse Width Modulation (SVPWM) Techniques	FT March 2018
2.	Nithin Raj P130019EE	Dr. Saly George Dr. Jagadanand G	Power switch fault detection and diagnosis in voltage source inverters	PT July 2018
3.	Pratheesh K J P130052EE	Dr. Rijil Ramchand Dr. Jagadanand G	Generalized Space Vector Modulation Scheme for Multilevel Inverters with Reduced Complexity	PT September 2018
4.	Joseph Peter P120080EE	Dr. Rijil Ramchand	Investigations on Nearly Constant Switching Frequency Hysteresis Controllers for VSI fed Induction Motor Drives	PT September 2018
5.	Aniruddha K.M. P120025EE	Dr. Mukti Barai	Design, Architecture and Real Time Distributed Maximum Power Point Tracking (DMPPT) method for PV Systems	PT November 2018
6.	G. Vivek P120102EE	Dr. Mukti Barai	Design Space Exploration of Optimized Hybrid SVPWM Techniques for Two and Three level VSIs	PT July 2019
7.	Deepthi S. Nair P130029EE	Dr. Saly George Dr. Jagadanand G	Modified Switching Schemes for Direct Torque Controlled BLDC Motor Drives	FT December 2019
8.	Sandeep J P130070EE	Dr. Rijil Ramchand Dr. Ashok S	Switching Frequency Variation Control of Hysteresis Current Controlled Indirect Matrix Converter Fed PMSM Drive.	FT July 2020
9.	Biju K P120049EE	Dr. Rijil Ramchand	Adaptive Feed-Forward PWM Control Strategies for Single Phase Cascaded H-Bridge Multilevel Inverter Under Fluctuating DC Link Conditions	PT September 2020
10.	Akhil Vinayak B P140006EE	Dr. Jagadanand G	Stator Fault Diagnosis of Inverter-fed Induction Motor by means of Machine Learning and Frequency Spectrum Approach	FT March 2021
11	Anjana K G P140029EE	Dr. Mukti Barai	An Optimized Hybrid PWM Method for five-level NPC inverter with unequal DC-links fed by DPP based PV System	FT August 2021
12	Anjali Anand K P140064EE	Dr. Saly George Dr. Jagadanand G	Generalized open switch fault diagnosis of cascaded H-Bridge multilevel inverters	FT October 2021
13	Muthavarapu Aswini Kumar P140071EE	Dr. Mukti Barai	Design Space Exploration of Capacitor Voltage Balancing and Modulation Methods for Modular Multilevel Converters	FT October 2021
14	Hema Rani P P160017EE	Dr. Saly George Dr. Ashok S	Power Electronics/ Control Strategies for Multi-input Multi-output Converters for Renewable Energy Source Integration	Internal August 2021
15	Athira Raju P150026EE	Dr.Rijil Ramchand Dr.Elizabeth P Cheriyen	Modified Hysteresis current control strategy for cascaded multilevel inverter based STATCOM	FT May 2022
16	Reema. N P180079EE	Dr. Jagadanand G, Dr. Nikhil Sasidharan	Design and development of an autonomous any-cell to any-cell voltage equalizer for ultracapacitor based energy storage systems in electric vehicle applications	FT July 2024

17	Mohammed Shafi K P P160004EE	Dr. Rijil Ramachand	Torque Ripple Analysis in CESP-based Hysteresis Controlled VSI Fed Induction Motor Drive	PT August 2024
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PhD Ongoing

Sl. No.	Reg. No.	Name	Guide	Area of Specialization	Scheme (QIP/PT/ FT)
1	P170098EE	Rinsha V	Dr. G. Jagadanand	Power Electronics	FT
2	P180050EE	Priyanka C P	Dr. Jagadanand G	Power Electronics	FT
3	P180073EE	Renuka V. S.	Dr. Nikhil S	Power Electronics and Control	FT
4	P180077EE	Nithin S. Nair	Dr. Mukti Barai	Power Electronics	FT
5	P190014EE	Sheetal Cyriac	Dr. Rijil Ramchand, Dr. Sandeep J.	Control of power electronic converters	FT
6	P190021EE	Shifa H Rahman	Dr.Jagadanand G, Dr.Shreelakshmi M P,	Power Electronic applications in Electric Vehicle	FT
7	P190025EE	R Akhil Raj	Dr.Saly George	Power Electronics	FT
8	P190143EE	Kannan S A	Dr.Jagadanand G, Dr.Nikhil Sasidharan	Power Electronics	FT
9	P200004EE	Frieda Mohan	Dr. Nikhil Sasidharan	Power Electronics	QIP
10	P200005EE	Shilpi M	Dr.Rijil Ramchand, Dr.Shreelakshmi M P	Power Electronics	QIP
11	P200065EE	Shahin A	Dr. Shreelakshmi M P, Dr. Rijil Ramchand	Power Electronics	FT
12	P200066EE	Shilpa Rajan	Dr. Nikhil Sasidharan	Power Electronics	PT
13	P210100EE	Smitha Joseph	Dr.Nikhil Sasidharan Dr. Shreelakshmi MP	Couple inductor based high gain DC-DC converter	QIP
14	P220014EE	Vinotha J	Dr. Shreelakshmi MP Dr.Rakesh R Warier	Power Electronics	FT
15	P220050EE	Bensy J O	Dr.Nikhil Sasidharan Dr. Hemarani	Power Electronics	PT
16	P220064EE	Aaliya Farzana	Dr. Rijil Ramchand Dr. Harish Sudhakaran Nair	Power Electronics	FT
17	P220084EE	Prajeesh K	Dr. Shreelakshmi MP Dr. Nikhil Sasidharan	Power Electronics	FT
18	P220086EE	Sumarani V S	Dr. Mukti Barai	Power Electronics	FT
19	P220144EE	Abdul Nazer P	Dr Harish Sudhakaran Nair	Modelling and Analysis of Three phase Active Front end Rectifiers	FT
20	P220151EE	Akhila R	Dr Nasirul Haque Dr Harish Sudhakaran Nair	Power electronics and Machine learning	PT
21	P220184EE	Deepesh K V	Dr.Jagadanand G, Dr.Nikhil Sasidharan	Power Electronics	PT
22	P220231EE	Mohamed Nadir N	Dr. Hema Rani P, Dr. Ashok S	Power Electronic Applications in Solar Drives	FT

23	P230089EE	Jijo Balakrishnan	Dr Nikhil Sasidharan	Design of electric drive for EV application	PT
24	P230106EE	Lekshmi Harilal Nirappuravilayil	Dr. Harish Sudhakaran Nair, Dr. Nasirul Haque	Modelling and Analysis of Single phase Active Front end Rectifiers	FT
25	P230126EE	Muhammedali Shafeeque K	Dr Nikhil Sasidharan Dr. Rijil Ramchand	Power Electronics	QIP
26	P230147EE	Pradeep R	Dr Nikhil Sasidharan	Power Electronics	PT
27	P230612EE	Nimmy Paulson	Dr. Rijil Ramchand Dr. Harish Sudhakaran Nair	DC -DC converters	FT
28	P230647EE	Shruti Prins	Dr. Shreelakshmi MP, Dr. Nikhil Sasidharan	Power Electronics	PT
29	P240233EE	Deena George	Dr Harish Sudhakaran Nair	DC -DC converters	QIP