

SAMPLE LIST OF STUDENT PROJECTS

MAY 2019

Sl. No.	Name of Student	Project Title
1	Rupesh Kumar	Maximum Power from PV arrays using fixed configuration under different shading conditions
2	Priyanshu Jain	Automated Security System for residential purpose
3	Brahmaiah Kotu	Photovoltaic fed grid tied systems using reduced harmonic three-phase VSI
4	Priyanka P	Current fed single input multi output switched converter
5	Satyendra Patel	Power reserve control of solar PV system connected to grid through two stage converter
6	Rahul Raj Srivastava	Design of solar PV micro inverter with single stage power conversion
7	Mahtab Ahmed	Home Automation with ZIGBEE based WSN, Video Processing & Automatic Switching of Sources

DECEMBER 2018

Sl. No.	Name of Student	Project Title
1	Biswajit Sahoo	Operation and Control of grid connected MMC using phase disposition PWM technique
2	Mistry Khetalkumar Shaileshkumar	Single stage current fed switching based hybrid converter for PV application
3	Pallapu Venkata Ramana	Enhancing Energy Efficiency of multiple induction motor drive for belt conveyor system
4	Vaibhav Kumar Siwach Bijilesh	Hardware implementation of single phase grid tied PV array using decoupled control
5	Puthookkandi Thazhakuni	MPPT in PV systems through fruit-fly algorithm
6	Kadam Vishvajit Sudhakar	A Coordination Strategy for charging of electric vehicles at geographically distributed fast charging stations
7	Priyanshu Jain	Automated Security System for residential purpose
8	Brahmaiah Kotu	Photovoltaic fed grid tied systems using reduced harmonic three-phase VSI
9	Atul Patidar	Design and Control of PV fed 12W LED light system

10	Mahtab Ahmed	Human detection and Zigbee based WSN Architecture for Home Automation
11	Govada Mahesh	On board bidirectional battery charger for G2V and V2G applications
12	Kumbha Veera Hanuman	High power factor 3-level boost converter for 3-level diode clamped inverter with capacitor voltage balancing
13	Rahul Raj Srivastava	Design of solar PV micro inverter with single stage power conversion
14	K S K Prasannanjali	Modified Voltage lift switched inductor configurations of revised SEPIC dc-dc converter for photovoltaic applications
15	Gourav Khusalani	VLSI design of low voltage low power dc-dc buck converter in CMOS 180nm process technology
16	P Srikanth	Extraction of maximum power from grid-tied photovoltaic system using modular multilevel converter using partial shading condition
17	Priyanka P	Current fed single input multi output switched converter
18	Satyendra Patel	Power reserve control of solar PV system connected to grid through two stage converter

MAY 2018

Sl. No.	Name of Student	Project Title
1	Mandeep Singh Rana	Modified GA Based MPPT in PV Systems Under Partially Shaded conditions
2	Ajeet Kumar	A Buck-Boost based DC/AC Converter for grid connected PV System
3	Sreelakshmy J Menon	Fault Identification Algorithm for PV System using Maximal overlap discrete Wavelet Transform
4	Bharath Kumar	PV Fed LED Ligting system:SFS Based PI Controller Design
5	Mohan Krishna	Semiconductor Loss distribution evolution of different three level inverter topologies for PV System
6	Deepak Kumar	Solar PV array fed Brushless DC Motor driven water pump using Boost converter
7	Yellamilli Nitish	Development of Distributed MPPT in Solar PV System
8	Harshal Sanjayrao Mangulkar	Design and Development of Five Level Modular Multi Level Converter
9	S Bharath Kumar Raju	Control of PV system to work as a power reserve with MPP Estimation

10	S Srinu	Investigation on degradation of 100 kWp PV Plant in Nit Trichy
11	Sunkara Durga Prasanth	Minimization of Torque ripple in a brushless DC Motor
12	Katikala Suresh	Hardware Implementation of the cascade boost converter to reduce losses
13	Penumala Deva Kumar	Design and Simulation of High voltage gain DC-DC Converter
14	Gokul T G	Hardware Implementation of IOT Enabled home management system
15	Radhakrushna Dey	Performance analysis of Spiral Square coupled coil based wireless EV Battery Charging with Misalignments
16	S P Nanda Gopal	Investigation of power injecting capability of wind power plant connected to weak grid and stability anslysis
17	Akhila P V	Design and development of solar PV simulator using a power converter
18	Anoop Kumar Jain	Reactive power converter control for module integrated grid-tie inverter
19	Suresh Kumar S	Simulation and hardware implementation of flyback inverter for solar powered pump
20	Varun Bijalwan	Integration of photovoltaic and wind energy systems feeding utility grid through line commutated inverter
21	Anmol Agarwal	Hardware implementation of integration of PV array to three phase grid using decoupled control

MAY 2017

Sl. No.	Name of Student	Project Title
1	Ponana Srinivas	Analysis and Development of dynamic voltage restorer for voltage sag/swell in distribution systems
2	N Divya Naga Rajendra	FPGA based DTC implementation for BLDC Motor using B4-Inverter
3	Laveti Arjun	Development of control scheme for boost derived hybrid converter for solar PV Applications
4	Nitheesh R	A study on degradation of PV Modules
5	Ayushi Bansal	Analysis of single phase operation of a three phase grid connected induction generator
6	Pabbathi annaiah	Implementation of inductive coupled coils for wireless power transfer system
7	P V Vardhana varma	PMU based wide area power system dynamics control using TCSC

8	Gaurav Hazra	Design and analysis of an isolated high gain converter for solar PV application
9	Kosanam vinay Kumar	Hardware Development of battery test setup
10	Aiswarya Remesh	Power electronic converter with improved switching strategy for grid connected PV system
11	Mahendra Kumar	MPPT of PV systems under partially shaded conditions-Investigations on PGO based approach
12	Sivakumar P	PV fed LED lighting system: Artificial Immune system based PI controller design
13	Barakala Naveen	Hardware implementation of a single stage grid connected PV System
14	Habeeburahaman C A	Series active ripple port inverter with improved source utilization and reduced size
15	Aju sivan	Interleaved Boost converter for solar PV Applications
16	A.H. C Lakshmikanth	Control scheme design for constant current charging and discharging of battery
17	Rohit soni	Power Electronic interface for feeding power to grid and critical load from PV source

18	Pilli Madhu Kiran	Development of control strategy for single stage grid connected solar PV system
19	Lavudi Balaji	PMDC motor based water pumping system operated from solar photo voltaic arrays

DECEMBER 2016

Sl. No.	Name of Student	Project Title
1	Laveti Arjun	Development of control scheme for boost derived hybrid converter for solar PV Applications
2	Karthik S	Simulation of regenerative braking system for electric vehicles
3	Nikhil K A	FPGA based control of standalone DFIG system
4	Mahendra Kumar	MPPT of PV systems under partially shaded conditions-Investigations on PGO based approach
5	Lavudi Balaji	BLDC motor based water pumping system operated from solar PV arrays
6	A.H. C Lakshmikanth	Control scheme design for constant current charging and discharging of battery

7	Kosanan Vinay Kumar	Development of battery test set up
8	Pilli Madhu Kiran	Development of control strategy for single stage grid connected solar PV system
9	Nitheesh R	A study on degradation of PV Modules
10	Sivakumar P	PV fed LED lighting system: Artificial Immune system based PI controller design
11	Ayushi Bansal	Applications of wind and solar power generation forecasting
12	Pabbathi annaiah	Design and analysis of coupled coils with different misalignments for wireless power transfer system
13	Aiswarya Remesh	Shortterm solar irradiance forecasting for electrical power estimation
14	Barakala Naveen	Non-linear control of a single stage grid connected PV system
15	Habeeburahaman C A	Inverters with improved source utilization
16	Aju sivan	Interleaved Boost converter for solar PV Applications
17	Ponana Srinivas	Analysis and Development of dynamic voltage restorer for voltage sag/swell in distribution systems
18	Biju k	Simulation of speed control of an induction motor by V/f method using an improved ZSI

19	Gaurav Hazra	Design and analysis of an isolated high gain converter for solar PV application
20	Akhil	Design and development of embedded controller for four leg D-Statcom
21	Mahendra Kumar	MPPT of PV systems under partially shaded conditions-Investigations on PGO based approach
22	Rohit soni	Power Electronic interface for feeding power to grid and critical load from PV source

MAY 2016

Sl. No.	Name of Student	Project Title
1	Akhil Krishna M S	Fuzzy logic based LED lightning system
2	Baiju R Naina	Particle swarm based approach towards profit based unit commitment
3	Nagaraju M	An interleaved boost converter with zero voltage transition
4	Tarun Srivastava	Power electronic interface for PV fed DC grid and BLDC motor
5	Katta Venkateswarlu	Electric vehicle route optimization under different electricity price profiles using ANT colony optimization
6	Rajesh Kumar Padhy	Loss minimization control of induction motor drive

7	Rama Chandra Bhuyan	Direct torque control of brushless DC motor drives with improved reliability
8	Raj Prakash Korapati	Operatin and closed loop control of single phase micro grid system using phase locked loop
9	Vijayanaryanan S	Control strategies to reduce charging/Discharging cycle of bees using EDLC
10	Bhagya Sri K	Hardware implementation of power electronic controller for grid connected wind driven permanent magnet synchronous generator
11	Hariharan R	Degration detection of PV arrays using extremum-seeking control based MPPT
12	Sachin Kumar Bohi	Generalized modeling and control of power electronics system
13	Navas Ali K	Hybrid series photovoltaic Generation in SCIG based wind farms
14	Bukke Vishnu Bharath	Power quality analysis of inverter based power source for ARC welding process
15	R Venkateswara Reddy	Hybrid switched mode power supply system using solar system
16	Nipun Mani Raj	Control of single stage DC-AC Step up converter
17	Arghya Jana	Investigation of switching transients in vaccum circuit breaker for synchronous condenser

18	Adharva upadhye	Design of high frequency synchronous DC-DC buck converter using enhancement mode Gallium Nitrate FET
19	Suresh S	Real time simulation of solar PV module using full spectrum simulator and hardware implementation of buck-boost converter
20	Pallavarapu Mayur	Modelling and testing of medium voltage drives in hardware in loop simulation
21	Harikrishnan	Single stage single phase buck boost inverter for photo voltaic application
22	Dipankar Biswas	Control of single inductor based dual output-input boost DC-DC converter for solar PV Applications

DECEMBER 2015

Sl. No.	Name of Student	Project Title
1	Nipun Manirajan	DC-AC Dual buck full bridge inverter
2	Harikrishnan	Single stage single phase buck boost inverter for photovoltaic applications
3	Nagaraju	An interleaved boost converter with zero-voltage transition
4	Vijayanarayanan	control strategies to reduce charging/discharging cycle of bees using EDLC
5	Bhargava Varma	Control of brushless DC motor using matrix converter

6	Hariharan	Fault analysis and detection in PV array
7	Suresh	Real time hardware in loop simulation of certain power converters using full spectrum simulator
8	Bukke Vishnu Bharath	power quality analysis of inverter based power source for ARC welding process
9	Venkateswara Reddy	Current feed soft switching push-pull based DC-DC converter fed with PV for grid connected system
10	Katta Venkateswarlu	Electric vehicle route optimization under differential electricity price profiles using particle swarm optimization
11	Atharva Upadhye	Design of High frequency synchronous DC-DC buck converter using enhancement mode Gallium-Nitride
12	Tarun Srivastava	Integration of wind and PV sources feeding DC grid BLDC motor
13	Jeevan Sankeerth G	MPPT in PV systems employing firefly algorithm
14	Jeevan Sankeerth G	FPGA based sliding mode assisted P&O method for MPPT in PV systems
15	Akhil Krishnan M S	Power management in dual input DC-DC converter system
16	Bhagya Sri K	Power electronic controller for wind driven permanent magnet synchronous generator
17	Dipankar Biswas	Control of single inductor based dual output/input boost DC-DC converter for solar PV applications

18	Rajesh Kumar Padhy	Loss minimization control of induction motor drive for belt conveyors
19	Raj Prakash Korapati	Operation and closed loop control of single phase microgrid system using phase locked loop
20	Ramachandra Bhuyan	Direct torque control of brushless DC motor drives with improved reliability
21	Arghya jana	Solar PV and battery storage integration using a three level NPC Grid connected inverter
22	Navas ali	Analysis of hybrid series photovoltaic generation in SCIG based wind farm
23	Jithin k k	Mitigation of load encroachment in distance relays with PMU
24	Sachin Kumar Bhoi	Generalized modelling and control of power electronic system
25	Patil Virendra Prakash	Review of anti islanding algorithms for distributed generation
26	Nandem Sandeep Kumar	Simulation of the Non-Isolated Voltage Quadrupler DC-DC converter with Low Switch Voltage Stress
27	Pranav Chhalotre	Simulation of two phase ZVS Active Clamped DC-DC boost converter

MAY 2015

Sl. No.	Name of Student	Project Title
1	Ramachandrarao Phdi	Performance Enhancement of grid synchronization in Single phase power converter
2	Arif Shaik	Design of feedback controller for PV fed induction motor
3	Yalla Vamsidhar reddy	Gravitational search algorithm(GSA) assisted sliding mode control scheme for maximum power point tracking in PV systems
4	Midhun M	Implementation of grid connected single phase inverter
5	Sivaguru A	Hardware implementation of power train control of hybrid electric vehicles
6	Dhananjay sinha	Development of MPPT controller for solar PV system with battery backup feeding DC Microgrid
7	Ayoob V P	Application of harmony search algorithm for illumination control of LED lighting system
8	Dennis Mathew	FPGA based MPPT control scheme of a PV system connected to a single stage grid synchronized inverter
9	Benson p Thomas	PV fed sine wave inverter with particle swarm optimization based maximum power point tracking

10	Peruka vamshi	Investigation of various PWM techniques for three phase three level inverter
11	N. poorna chandra rao	optimal scheduling of loads along with EVS connected to standalone WEECS
12	DWIJASISH DAS	FPGA based controller for BLDC motor suitable for elevator system
13	Mamidi talupulu babu	Test automation framework for intelligent electronic devices
14	Botta Ravi	Protection Scheme for MVDC Collection grids for offshore wind farm distribution systems
15	K. Ravi ratna roja	control of self excited induction generator converter system feeding constant DC voltage applications
16	Chinthakindhi Vinay	Multi Phase Interleaved boost converter for SPV Applications
17	G. Ganesh	Hardware implementation of boost based DC-AC converter for residential PV Applications
18	Subash kumar reddy	Analysis and implementation of bidirectional DC-DC converter using coupled inductor in standalone PV Application
19	Nitesh Balotia	Design and development of high voltage gain DC-DC Converter
20	Rai Rama Krishna	A Microinverter for PV fed grid system

21	Priyanka	A power electronic interface with battery storage for PV fed grid connected system and critical load
22	Mangadoddi Shivakumar Yadav	Power Electronic Converter with a new switching strategy for improved efficiency of PV fed utility grid system
23	Devendra varma	Control of three phase self excited induction generator-matrix converter system feeding standalone AC loads
24	Satveer singh gurjar	A voltage controlled adjustable speed PMBLDC motor drive using a single stage PFC half bridge converter

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