



SPIRO
SOLUTIONS PVT LTD

POWER SYSTEM

PROJECT TITLE 2015 - 2016

TECHNOLOGY : MATLAB

DOMAIN : POWER SYSTEMS

1.	ITPS01	MPPT with single DC-DC converter and inverter for grid connected hybrid wind-driven PMSG-PV system	Generating stations, renewable energy power generations	2015
2.	ITPS02	A high step-up DC TO DC converter under alternating phase shift control for fuel cell power system	Hills stations, rural area power sources	2015
3.	ITPS03	Doubly fed induction generator for wind energy conversion systems with integrated active filter capabilities	Hybrid power applications ,renewable energy irrigation pumping	2015
4.	ITPS04	A maximum power tracking technique for grid-connected DFIG-based wind turbines	Home application power supply, renewable energy power generation	2015
5.	ITPS05	Power balance of cascaded H-bridge multilevel converters for large-scale photovoltaic integration	Ups circuits ,power grid applications	2015

6.	ITPS06	Current-fed soft-switching push-pull front-end converter based bidirectional inverter for residential photovoltaic power system	Xerox machines ,residential power systems	2014
POWER QUALITY IMPROVEMENT				
7.	ITPS07	High-gain resonant switched-capacitor cell-based DC/DC converter for offshore wind energy systems	Atomic station applications ,renewable energy irrigation pumping	2015
8.	ITPS08	An improved IUPQC controller to provide additional grid-voltage regulation as a STATCOM	Power quality improvement ,reactive power compensations , fact devices	2015
9.	ITPS09	Front-end converter with integrated PFC and DC-DC functions for a fuel cell UPS with DSP-based control	Magnetic levitation ,dc machines , Xerox machines	2015
10.	ITPS10	An enhanced voltage sag compensation scheme for DVR	FACTS devices , distribution power network	2015
11.	ITPS11	Predictive voltage control of transformer less DVR	Facts devices , compensation of voltage sag swell conditions	2015

12.	ITPS12	Integrated photovoltaic and dynamic voltage restorer system configuration	Power system network , renewable energy management	2015
13.	ITPS13	An integrated dynamic voltage restorer-ultra capacitor design for improving power quality of the distribution grid	Renewable energy management , fact devices	2015
14.	ITPS14	Operation and control of an improved performance interactive DSTATCOM	Distribution station , renewable power systems	2015
15.	ITPS15	LCL filter design and performance analysis for grid interconnected systems	PV cells, fuel cell ,wind turbines systems	2014

Education Partners:



Technologies and Domain used:

IEEE 2014, Java, J2ee, Android, Dot net, PHP, Embedded, Vlsi, Matlab, VB, Net working, Data Mining, Image Processing, Cloud Computing, Mobile Computing, Multimedia, Network Security, Soft Engg, Grid Computing, Automation, Robotics, Communication, RF, Zigbee, Blue tooth, GSM/GPS/GPRS, Power Electronics & Systems, Electrical, DSP, RTOS, Bio metrics, etc.

Features

- Latest 2014 IEEE, Science Direct, ACM based project concept and solutions.
- State of the art infrastructure, Innovative Project training methods.
- All our efforts are focused on students to meet industry requirements.
- Our environment is encapsulated with doctorates, professionals and other experts.
- Excellent Placements through our **Spiro HR Management Consultants (SMC) Pvt Ltd.**

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