

Final Year Project List – Session 2011

Group No.	Project Title	Supervisor
2011-FYP-01	Implementation of Wi-Fi based Home Automation Using Master Slave Communication	Dr. Khalid Mahmood Hassan
2011-FYP-02	Multi Sensor Based Detection Identification & Notification of Abnormal Driving Behaviour	Dr. Muhammad Tahir
2011-FYP-03	DHU for SUPARCO Setellite	Dr. Muhammad Tahir
2011-FYP-04	GIS Based Autonomous Flight of AR Drone	Dr. Muhammad Tahir
2011-FYP-05	Distortion Factor Analyser Of Non-Linear Loads	Mr. Arsalan A Raheem
2011-FYP-06	PLL Based Solar Array Feeding Grid	Mr. Arsalan A Raheem
2011-FYP-07	Maximising Power Density and Efficiency of a Single Phase Sine Wave Inverter Using HERIC Topology	Mr. Arsalan A Raheem
2011-FYP-08	Design & Implementation Of On Board Computer Of Micro Satellite	Dr. Hassan Jaleel
2011-FYP-09	Design & Implementation Of Algorithms For Attitude Control System For Micro Sattelite	Dr. Hassan Jaleel
2011-FYP-10	Application Control Through BCI(Brain Control Interface)	Dr. Zubair Khalid
2011-FYP-11	Simultaneous Localization and Mapping (SLAM)	Dr. Ubaid Ullah Fiaz
2011-FYP-12	Industrial Leather Sprayer Economizer	Dr. Tahir Izhar
2011-FYP-13	Monitoring of Distribution Transformer Through GSM	Dr. Tahir Izhar
2011-FYP-14	Variable Frequency Drive of Induction Motor with Regenerative Braking	Dr. Tahir Izhar
2011-FYP-15	Energy Storage System using Inverter to Meet Load Requirements	Dr. Tahir Izhar
2011-FYP-16	SVPWM based Three Phase Multi-Level Inverter with Data Acquisition using Lab View	Dr. Syed Abdul Rahman Kashif
2011-FYP-17	Direct Torque Control Of Induction Motor Using Fuzzy Logic Based Controller	Dr. Syed Abdul Rahman Kashif
2011-FYP-18	Conveyor Belt Control Using IM Control for Industrial Applications	Dr. Syed Abdul Rahman Kashif
2011-FYP-19	Control Of PMSM Using SVM Based Inverter	Dr. Syed Abdul Rahman Kashif
2011-FYP-20	Microcontroller based high frequency synthesis for motor drive	Dr. Umer Shami
2011-FYP-21	Energy Metering with Theft Detection	Mr. Naveed Nawaz
2011-FYP-22	Use of Protection Relays In A.C Distribution System & Fault Detection	Mr. Naveed Nawaz
2011-FYP-23	Over Load Power Control Using GSM Module (Smart Grid)	Mr. Naveed Nawaz
2011-FYP-24	Implementation Of Micro Controller Based Distance Protection Of Transmission Line	Mr. Muhammad Bilal
2011-FYP-25	An intelligent automatic phase transfer system for reliable power supply	Mr. Muhammad Bilal
2011-FYP-26	Automated Industrial Model of Object Sorting System using Conveyer Belt	Mr. Usama Elahi
2011-FYP-27	Flux Estimation Using FPGAs for Sensorless Control of PMSM	Mr. Usama Elahi
2011-FYP-28	Development of a Variable High Voltage DC Power Supply	Dr. Muhammad Asghar Saqib
2011-FYP-29	Design and Implementation of a 1000VA Shell Type Transformer with Micro Controller based ON-Load Semiconductor Tap Changer	Dr. Muhammad Asghar Saqib
2011-FYP-30	Load Sharing between a Solar Source and AC WAPDA source	Dr. Muhammad Asghar Saqib
2011-FYP-31	Prototype of a wind power generator	Dr. Muhammad Asghar Saqib
2011-FYP-32	Renewable Resources In Distribution Network	Dr. Zubair Ahmed Khan
2011-FYP-33	RF Technology Based Spy Robot with Night Vision Camera	Dr. Khalid Mahmood Hassan
2011-FYP-34	SCADA Based Smart Grid (A Laboratory - Scale Model)	Dr. Khalid Mahmood Hassan
2011-FYP-35	PLC Based Industrial Automation	Dr. Khalid Mahmood Hassan
2011-FYP-36	Design of Automotic Starter for an Alternator	Dr. Khalid Mahmood Hassan
2011-FYP-37	Hardware & Software Design Of A Satellite Battery System	Mr. Mustafeezul Hassan
2011-FYP-38	Designing a highly reliable hardware for data handling unit of SUPARCO Micro-Satellite	Dr. Kashif Javeed
2011-FYP-39	Implementation of Real Time Video Compression Using CORTEX M4	Mr. Ahsen Tahir
2011-FYP-40	Appliances Control using Andriod Application	Mr. Ahsen Tahir
2011-FYP-41	Soft Starter for induction motor using PLC	Mr. Ahsen Tahir
2011-FYP-42	Portable Cardiac Monitoring and Detection System	Dr. Noor Muhammad Sheikh
2011-FYP-43	Survilence System using 3G	Dr. Noor Muhammad Sheikh
2011-FYP-44	A consumer-premise optimized smart power management scheme via cross platform networked framework	Dr. Noor Muhammad Sheikh
2011-FYP-45	Simultaneous Localization and Mapping (SLAM) based Master and Slave Robot	Mr. Aqeel Anwar
2011-FYP-46	Wireless Control Camera Gimble Frame	Mr. Aqeel Anwar
2011-FYP-47	Variable frequency AC drive using three phase inverter	Major Javeed Iqbal
2011-FYP-48	Bottle Filling and Capping Mechanism using Arduino	Major Javeed Iqbal
2011-FYP-49	Power Transmission Line Analyzer using STM board	Dr. Omer Waqar
2011-FYP-50	Design and Implementation of SVC for power factor control	Major Javeed Iqbal
2011-FYP-51	Power Line Carrier with its Application of monitoring and Control	Dr. Omer Waqar
2011-FYP-52	Design and Construction of 20 kV Cock-Croft Walton Voltage Multiplier	Dr. Inam Elahi Rana
2011-FYP-53	High Frequency, high voltage signal generator for insulation testing	Dr. Naeem Ayyaz
2011-FYP-54	Hydro Power Potential For Future Energy Demand In Afghanistan/Sudan	Dr. Suhail Aftab Qureshi
2011-FYP-55	Three Phase Quality Analyzer Using Ourdino & Lab View	Mr. Habib Wajid
2011-FYP-56	A Wireless Self Powered Microcontroller Based Monitoring Circuitry For Grid Connected Systems	Dr. Haroon Babri
2011-FYP-57	Generation of Electricity From Wind Power (Using Vertical Axis Turbine)	Maj. Javed Iqbal

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Group No.	Project Title	Supervisor
2012-FYP-01	Formation Control Of Homogenous Robots For Surveillance Purposes	Dr. Muhammad Tahir
2012-FYP-02	Gesture Controlled Smart Wheel Chair	Dr. Muhammad Tahir
2012-FYP-03	Portable Cardiac Monitoring System	Mr. Umer Shahid
2012-FYP-04	Load Monitoring & Fault Analysis For 11-KV Line Distribution Transformer With Remote Access	Arsalan A Raheem
2012-FYP-05	Hybrid Model Of E-Bike With Plug In Charging	Arsalan A Raheem
2012-FYP-06	Array Integrated Converter with Grid Sharing at DC Level (Battery) for Isolated Loads	Arsalan A Raheem
2012-FYP-07	Pneumatic Control Robotic Arm With Conveyors (pick & Place)	Dr. Tahir Izhar
2012-FYP-08	Automated Solar Based Smart Irrigation System	Dr. Tahir Izhar
2012-FYP-09	Solar Powered Electric Fencing With GSM Based Monitoring	Dr. Tahir Izhar
2012-FYP-10	Induction Motor Protection System	Dr. Tahir Izhar
2012-FYP-11	Solar Electric Car using NI myRio FPGA	Dr. Syed Abdul Rahman Kashif
2012-FYP-12	Implementation of Space Vector PWM based Multi-Level Inverter on myRio FPGA	Dr. Syed Abdul Rahman Kashif
2012-FYP-13	Energy Meter Testing using LabView and Analysis of UET Network	Dr. Syed Abdul Rahman Kashif
2012-FYP-14	Smart Generation & Automated Distribution & Monitoring	Dr. Syed Abdul Rahman Kashif
2012-FYP-15	Vertical Axis Wind Mill Prototype Design	Dr. Umer Shami
2012-FYP-16	Direct Torque Control Of Switched Reluctance Motor	Dr. Umer Shami
2012-FYP-17	Single Phase Multi level Inverter with Variable Frequency For Induction Motor Control	Dr. Umer Shami
2012-FYP-18	SCADA System Automation Of Electrical Distribution	Dr. Umer Shami
2012-FYP-19	Closed Loop V/f Control of Induction Motor using SVPWM on STM32F4	Usama Elahi
2012-FYP-20	Design & Implementation Of Matrix Converter (MC)	Usama Elahi
2012-FYP-21	Modern Energy Meter With Automatic Control	Dr. Muhammad Asghar Saqib
2012-FYP-22	Prototype Of A Steam Turbine Generator Using Solar Energy	Dr. Muhammad Asghar Saqib
2012-FYP-23	Implementation Of An Auto Recloser In A Distribution System	Dr. Muhammad Asghar Saqib
2012-FYP-24	Implementation Of Generator Protection Module	Dr. Muhammad Asghar Saqib
2012-FYP-25	Introducing Automatic Parking Feature In A Ground Vehicle	Dr. Zubair Ahmed Khan
2012-FYP-26	Dynamic Obstacle Avoiding Robot	Dr. Zubair Khalid
2012-FYP-27	Porting Control System On Internet Using Embedded Web Server	Dr. K.M. Hassan
2012-FYP-28	Controlling Mouse Cursor By Eye Ball	Dr. K.M. Hassan
2012-FYP-29	Configurable Robot	Dr. K.M. Hassan
2012-FYP-30	WIFI Based Live Streaming Rebot Controlled by Andriod App	Dr. K.M. Hassan
2012-FYP-31	Process Control Using Mobile Technology	Dr. K.M. Hassan
2012-FYP-32	Traffic Sign / Signal Detection & Recognition For A Robot In Motion	Dr. Kashif Javeed
2012-FYP-33	Real Time Localization and Tracking of Acoustic Source using Mobile Vehicle	Dr. Kashif Javeed
2012-FYP-34	Robot Control Through Speech Commands	Dr. Kashif Javeed
2012-FYP-35	Face Recognition Based Attendance System	Dr. Kashif Javeed
2012-FYP-36	Energy Conservation & Management In Smart Home System using IoT	Dr. Omer Waqar
2012-FYP-37	Interconnection Of Renewable System To Economise Generation	Dr. Suhail Aftab Qureshi
2012-FYP-38	Smart Grid(Integration Electric Vehicles For Transmission & Conservancy Of Energy)	Dr. Suhail Aftab Qureshi
2012-FYP-39	AMI Based Smart Energy Meter	Dr. Suhail Aftab Qureshi
2012-FYP-40	Smart Monitroing & Control Of Distribution Transformers In UET Networks	Dr. Suhail Aftab Qureshi
2012-FYP-41	Adaptive Array System	Dr. Irfan Shah Hussain
2012-FYP-42	Design Of VHF Radar Antenna Array & Integration With Radar T/R Unit	Dr. Inam Elahi Rana
2012-FYP-43	Characterization of Power Line Network using Low Cost Network Analyzer	Dr. Inam Elahi Rana
2012-FYP-44	A Parallel Top-Down Implementation Of Protein Scoring Algorithms On CVDA GPUs	Dr. Naeem Ayyaz
2012-FYP-45	Automated Vision Based Path Guider for Blind People	Dr. Naeem Ayyaz
2012-FYP-46	Efficient Load Shedding Management With PSS/E & Priority Based Smart Metering	Dr. K.M. Hassan
2012-FYP-47	Data Acquisition System Using STM32F3 Discovery Board(Sampling Rate 5Msps)	Dr. Ubaid Ullah Fayyaz
2012-FYP-48	Voltage Sag Mitigation Using PWM Switched Auto Transformer & PI Controller In closed Loop	Mr. Habib Wajid
2012-FYP-49	Speed Control Of BLDC Motor For Traction System Prototype	Mr. Anique Aslam
2012-FYP-50	Harmonic Reduction Method For A Three Phase DC-AC Converter Without An Output Filter	Mr. Anique Aslam
2012-FYP-51	Synchronization Of Wind Power With National Grid	Mr. Muhammad Bilal
2012-FYP-52	Design Of Microcontroller Based MHO Relay For The Protection Of Transmission Lines	Mr. Muhammad Bilal
2012-FYP-53	Power Quality Analyzer using Reaspberry Pi Board	Dr. Ubaid Ullah Fiaz
2012-FYP-54	Xbee Based Power System Parameters Monitoring Unit For Remote Power Quality and System Analysis	Mr. Habib Wajid
2012-FYP-55	Power Theft Identification in Distribution Lines using Differential Measurement	Dr. Haroon Babri

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Group No.	Project Title	Supervisor
2013-FYP-1	Grid-tied Multilevel Inverter with Power Quality Monitoring	Dr. Syed Abdul Rahman Kashif
2013-FYP-2	Smart Grid Monitoring and Data Analysis Using LabView	Dr. Syed Abdul Rahman Kashif
2013-FYP-3	Monitoring Energy Consumption Pattern in University Hostels	Dr. Muhammad Asghar Saqib
2013-FYP-4	Tracking, Learning and Detection Based Semi-Autonomous Machine	Dr. Muhammad Tahir
2013-FYP-5	Electrical System Load Management and Automatic Billing	Dr. Khalid Mehmood ul Hasan
2013-FYP-6	Speed Control of 2 kW Induction Motor	Mr. Salman Fakhar
2013-FYP-7	3-D Mapping Autonomous Flight Quad copter with Inductive Charging	Dr. Khalid Mehmood ul Hasan
2013-FYP-8	Automatic Security System through Body Actions and Facial Expressions via Real Time Image Processing	Dr. Kashif Javed
2013-FYP-9	Wheelief: An Automated Guided Wheel-Chair	Dr. Ubaid Ullah Fayyaz
2013-FYP-10	Auto Geared Smart Bike	Mr. Arslan A Raheem
2013-FYP-11	Variable Frequency Drive with Real Time Power Quality Monitoring	Dr. Syed Abdul Rahman Kashif
2013-FYP-12	Home Automation and Control of Induction Machine from Main Block	Dr. Muhammad Asghar Saqib
2013-FYP-13	Induction Motor Drive	Dr. Suhail Aftab Qureshi
2013-FYP-14	Solar Auto Drive Car	Dr. Syed Abdul Rahman Kashif
2013-FYP-15	PLC Based Smart Restaurant	Mr. Habib Wajid
2013-FYP-16	Smart Energy Management System	Dr. Tahir Izhar
2013-FYP-17	Power Generation using Standalone Wind Energy System	Dr. Suhail Aftab Qureshi
2013-FYP-18	Design and Implementation of Robotic Arm that Copies Human Arm	Mr. Umer Shahid
2013-FYP-19	Bi-Directional Energy Meter with Data Acquisition	Dr. Suhail Aftab Qureshi
2013-FYP-20	Communication Between Dumb and Normal Persons	Dr. Kashif Javed
2013-FYP-21	Maximum Power Point Tracking with Buck Boost Converter	Mr. Salman Fakhar
2013-FYP-22	Wi-Fi Based Smart Home using Mesh Topology	Mr. Muhammad Ali Shafique
2013-FYP-23	GPS based Public Transport Arrival Time Prediction	Dr. Ubaid Ullah Fayyaz
2013-FYP-24	Design and Development of DHU of Microsatellite	Dr. Muhammad Tahir
2013-FYP-25	Induction Heater using Resonant Inverter with Feedback Using PLL	Mr. Habib Wajid
2013-FYP-26	Personal Assistant Robot	Dr. Kashif Javed
2013-FYP-27	Wireless Electrocardiography	Mr. Umer Shahid
2013-FYP-28	A Software Defined Rapid Prototyping Platform	Dr. Ubaid Ullah Fayyaz
2013-FYP-29	EMG Controlled Robotic Arm	Dr. Ubaid Ullah Fayyaz
2013-FYP-30	Power Factor Improvement Using Static VAR Compensator	Dr. Umer Tabrez Shami
2013-FYP-31	Home Automation	Mr. Salman Fakhar
2013-FYP-32	Micro Hydro Power Plant Dummy Load Controller	Dr. Tahir Izhar
2013-FYP-33	Robot Learning from Demonstration	Dr. Kashif Javed
2013-FYP-34	Buried Body Detection Under Earthquake Rubble	Dr. Muhammad Tahir
2013-FYP-35	Design, Implementation and Power Quality Analysis of Six Different AC Regulation Control Techniques.	Dr. Tahir Izhar
2013-FYP-36	Intelligent Soft Starter Inverter for Conventional Air Conditioner	Mr. Arslan A. Raheem
2013-FYP-37	Implementation of High Voltage DC Supply	Dr. Muhammad Asghar Saqib
2013-FYP-38	Air Conditioner Inverter and Frequency Control through Closed Loop System	Dr. Tahir Izhar
2013-FYP-39	Surveillance and Security Robot	Dr. Khalid Mehmood ul Hasan
2013-FYP-40	Design and Implementation of on Board Computer of Micro Leo Satellite	Dr. Muhammad Tahir
2013-FYP-41	Implementation of Short-Term Load Forecasting Using ANN	Dr. Suhail Aftab Qureshi
2013-FYP-42	Next Generation Cancer Modeling Platform	Dr. Khalid Mehmood ul Hasan
2013-FYP-43	Computer Controlled Three Phase AC Multi-Level Inverter Drive	Dr. Umer Tabrez Shami
2013-FYP-44	A PLC based Water Level Control System	Dr. Khalid Mehmood Ul Hasan

Final Year Project List — Session 2014

Group No.	Project Title	Area	Supervisor
2014-FYP-1	Development of Breakdown Voltage Tester for Liquid Dielectrics	Power	Dr. Farhan Mehmood
2014-FYP-2	Wearable Hand Gesture Recognition System for Dumb Amputee	Computer	Dr. Kashif Javeed
2014-FYP-3	Implementation of Inverter and Power Control Unit for Solar Net Metering	Power	Dr. Farhan Mehmood
2014-FYP-4	Modelling and Control of Self Balancing Vehicle	Control	Dr. Khalid Mehmood ul Hasan
2014-FYP-5	Autonomous Hover for Land Mine Detection	Electronics	Dr. Ubaid Ullah Fiaz
2014-FYP-6	Implementation of a Variable 0-50 kV DC Power Supply	Power	Dr. Sidra Fareed
2014-FYP-7	Neuro Fuzzy Inference System Based Advanced Statcom for Transient Instability	Power	Mr. Habib Wajid
2014-FYP-8	Solar Water Pump Using Single Phase Inverter	Power	Dr. Umer Tabrez Shami
2014-FYP-9	Wireless Power Transfer Through Resonance Coupling	Power	Ms. Noor Ul Ain
2014-FYP-10	Thyristor Controlled LC Compensator for Dynamic Loads	Power	Dr. Muhammad Asghar Saqib
2014-FYP-11	Optimal Energy Management of Multi-Input Based Grid Connected Converters	Power	Mr. Mustafeez Ul Hassan
2014-FYP-12	DC-AC Inverter Topology for Control and Stable Operation of HVDC	Power	Dr. Tahir Izhar
2014-FYP-13	Portable Ventilator with Feed Back Control	Control	Dr. Khalid Mehmood Ul Hasan
2014-FYP-14	A Matlab Toolbox for Protein Identification and Quantitation in Top Down Proteomics	Computer	Dr. Khalid Mehmood Ul Hasan
2014-FYP-15	Design and Development of Autonomous Farming Robot	Electronics	Dr. Muhammad Tahir
2014-FYP-16	Patient Centric Scientific Wellness Backbone for Next Generation National Health Care in Pakistan	Computer	Dr. Khalid Mehmood Ul Hasan
2014-FYP-17	Online Device Control and Ambient Monitoring Using Mesh Topology	Power	Dr. Syed Abdul Rahman Kashif (Ali Shafique)
2014-FYP-18	Smart Baby Cradle (An Automatic Baby Soothing and Monitoring System)	Power	Dr. Suhail Aftab Qureshi
2014-FYP-19	Multilevel Inverter	Power	Dr. Syed Abdul Rahman Kashif
2014-FYP-20	Intelligent Zero Net Energy with Hybrid Solar System	Power	Dr. Tahir Izhar
2014-FYP-21	Mind Controlled Quadcopter	Electronics	Mr. Arsalan A Rahim
2014-FYP-22	IP Code Design of Encoder and Soft-Output Decoder for Polar Codes	Electronics	Dr. Ubaid Ullah Fiaz
2014-FYP-23	Intelligent Discipline Maintenance System	Computer	Dr. Kashif Javeed
2014-FYP-24	Wireless Communication Based Vehicle Automation Using Optical Character Recognition	Electronics	Mr. Salman Fakhar
2014-FYP-25	Blind Assistant Robot	Computer	Dr. Kashif Javeed
2014-FYP-26	Smart Weed Detection and its Active Removal Via Visual Feedback System	Electronics	Dr. Muhammad Tahir
2014-FYP-27	Solar Powered AC Motor Drive Using Isolated Boost Converter	Power	Ms. Noor Ul Ain
2014-FYP-28	Power System Stability Using FACTS-DVR Devices	Power	Dr. Tahir Izhar
2014-FYP-29	DC-Fault Tolerant Modular Multi-Level HVDC Converter Using Switched Capacitor Submodule	Power	Mr. Mustafeez Ul Hassan
2014-FYP-30	Induction Motor Drive Control of a Car	Power	Dr. Tahir Izhar
2014-FYP-31	Deployment of Laboratory Work Bench for Partial Discharge Measurement of Electrical Equipment	Power	Dr. Farhan Mehmood
2014-FYP-32	Efficient Energy Metering with Maximum Demand Indication	Power	Mr. Salman Fakhar
2014-FYP-33	Smart Shopping Cart	Electronics	Dr. Ubaid Ullah Fiaz
2014-FYP-34	Synchronization and ATS at Smart Grid	Power	Dr. Suhail Aftab Qureshi
2014-FYP-35	2D Simultaneous Localization and Mapping (SLAM) Based Autonomous Rover with Environmental Surveillance	Electronics	Arsalan A Rahim
2014-FYP-36	Maximum Power Point Tracking using Boost Converter	Power	Dr. Umer Tabrez Shami
2014-FYP-37	Voltage Stability through FACTS Devices	Power	Dr. Suhail Aftab Qureshi
2014-FYP-38	Solar Powered Three Phase Inverter using Space Vector Pulse Width Modulation	Power	Dr. Suhail Aftab Qureshi
2014-FYP-39	3D PCB Printer	Power	Dr. Syed Abdul Rahman Kashif
2014-FYP-40	Home Assistant with Artificial Intelligence	Computer	Dr. Kashif Javeed
2014-FYP-41	Automated Utility Bill Management and security system	Power	Dr. Syed Abdul Rahman Kashif
2014-FYP-42	Bi-Directional Soft Switching Series Resonant Converter with PWM Control and Load Independent Voltage Gain Characteristics	Power	Mr. Habib Wajid
2014-FYP-43	Wireless Power Transfer through Resonance Coupling	Power	Dr. Khalid Mehmood ul Hasan (Ali Shafique)