KREST TECHNOLOGIES

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MINI Projects for

EEE(Matlab/simulation) 2015

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Course of Instruction

1. Basics of MATLAB programming/Simulink.
2. Designing of Simple circuits in Simulink
3. Steady State Space Analysis of RLC Circuits
4. Electrical Drives/Machines
    a. Basic Concepts of Motor
    b. AC/DC motors
    c. Modeling of Induction Motors
    d. Electrical Drives
    e. Various speed controlling techniques of AC/DC motors
5. Power Electronics:
    a. Uncontrollable/controllable Converters
    b. Various PWM Techniques(PWM/SPWM/SVPWM/DPWM/GDPWM)
    c. Multilevel Inverters
    d. Harmonics, Active/Passive Filters
    e. DC to DC converters(Buck/Buck Boost/Cuk /Sepic)
6. Power Systems
    a. Transmission/Distribution/Protection
    b. HVAC/HVDC
    c. Concepts of Facts(UPFC/SSSC/Statcom/UPQC/TCSC)
    d. Modeling of Facts Devices in Simulink/Matlab
    e. Distributed Generation
    f. Non Conventional Energy Sources

BTECH MINI EEE SIMULATION LIST

S.No	PROJECT TITLE
1.	A New Transistor Clamped 5-Level H-Bridge Multilevel Inverter with voltage Boosting Capacity
2.	Cascaded seven level inverter with reduced number of switches using level shifting PWM technique
3.	Dual-Buck Half-Bridge Voltage Balancer
4.	Five-Level Inverter for Renewable Power Generation System
5.	Modeling and Analysis of a Nonlinear Adaptive Filter Control for Interline Unified Power Quality Conditioner
6.	The Impact of Wind Power Implantation in Transmission Systems
7.	A DSTATCOM-control scheme for power quality improvement of grid connected wind energy system for balanced and unbalanced non linear loads
8.	A fast-acting dc-link voltage controller for three-phase DSTATCOM to compensate ac and dc loads
9.	A new two switch topology buck boost convertor in universal input PFC application
10.	A novel three-phase multilevel inverter using Less number of switches
11.	A STATCOM-control scheme for power quality improvement of grid connected wind energy system
12.	Analysis of cascaded five level multilevel inverter using hybrid pulse width modulation
13.	By dynamic voltage restorer for power quality improvement
14.	Compensation of voltage flicker by using facts devices
15.	Development of three phase to five phase transformer using a novel technique
16.	Novel Cascaded H-Bridge Multilevel Inverter with Harmonics Elimination
17.	Five level cascaded h-bridge multilevel inverter using multicarrier pulse width modulation technique
18.	Implementation of unified power quality conditioner in 3-φ 4-wire distribution system by using instantaneous power theory
19.	Interline power quality conditioner for power quality improvement
20.	Method for enhancement of power quality at point of Common coupling of wind energy system

21.	Performance of a 4- switch, 3-phase inverter Fed induction motor (IM) drive system
22.	Power quality enhancement by using distributed power-flow controller in distribution systems
23.	Power quality enhancement of distributed Network fed with renewable energy sources Based on interfacing inverter
24.	Power quality improvement in grid connected wind energy system Using UPQC
25.	Power quality improvement of the custom Power device with protection of inverter From short circuit fault
26.	Single stage ac-dc step up Converter using boost and buck boost Converters
27.	Wind energy conversion system using cascaded h-bridge multi level inverter
28.	A novel collaboration compensation strategy of railway power conditioner for a high speed railway traction power supply system
29.	A two-stage isolated/bidirectional dc/dc converter with current ripple reduction technique
30.	Active power filter with fast PI controller
31.	An enhanced micro grid load demand sharing strategy
32.	Compensation of sags and swells voltage using dynamic voltage restorer (DVR) during single line to ground and tree-phase faults
33.	Enhancement of voltage stability and power oscillation damping using static synchronous series compensator with SMES
34.	Grid connected thirteen level inverter for PV system using PI controller
35.	Load compensation using DSTATCOM for diesel generator based isolated generation system
36.	Multi machine power system stability enhancement using static synchronous series compensator
37.	Power quality improvement at distribution level for grid connected renewable energy sources
38.	Power quality improvement for grid connected wind energy system using svc light
39.	A dynamic voltage restorer equipped with a high-frequency isolated dc–dc converter
40.	A hybrid ac/dc micro grid and its coordination control
41.	A modified c-dump converter for BLDC machine used in a flywheel energy storage system

42.	A new approach to multifunctional dynamic voltage restorer implementation for emergency control in distribution systems
43.	A new high-efficiency single-phase transformer less PV inverter topology
44.	A novel facts based dynamic voltage compensation scheme for smart electric grid stabilization and efficient utilization
45.	A single phase five level inverter for grid connected photovoltaic system by employing PID controller(AJSR)
46.	A versatile control scheme for UPQC for power quality improvement
47.	An advanced facts controller for power flow management in transmission system using IPFC
48.	An improved maximum power point tracking for photovoltaic grid-connected inverter based on voltage-oriented control
49.	Applying D-STATCOM based on new control method under shunt, series and simultaneous fault conditions
50.	Cascaded h-bridge multilevel converter multi string topology for large scale photovoltaic systems
51.	Comparison of 3-level and 9-level inverter-fed induction motor drives
52.	Constant frequency-unified power quality conditioner
53.	Design and simulation of UPQC to improve power quality and transfer power of photovoltaic array to grid
54.	Direct torque and indirect flux control of brushless dc motor
55.	Energy management and power control of a hybrid active wind generator for distributed power generation and grid integration
56.	Enhanced power quality control strategy for single-phase inverters in distributed generation systems
57.	Enhancement of micro grid dynamic voltage stability using micro grid voltage stabilizer
58.	Fast protection of strong power systems with fault current limiters and PLL-aided fault detection
59.	Fault detection and mitigation in multilevel converter STATCOMs
60.	Fault ride-through of a DFIG wind turbine using a dynamic voltage restorer during symmetrical and asymmetrical grid faults
61.	Flying capacitor multilevel inverter based shunt active power filter with trifling susceptibility to divisional voltages deregulation
62.	Improvement of transient voltage stability of the wind farm using svc and TCSC

63.	Improving grid power quality with facts device on integration of wind energy system
64.	Induction motor drive using seven level multilevel inverter for energy saving in variable torque load application
65.	Load compensation for diesel generator-based isolated generation system employing DSTATCOM
66.	Loading balance of distribution feeders with loop power controllers considering photovoltaic generation
67.	New converter for switched reluctance motor drive with wide speed range operation
68.	Performance comparison of VSC-based shunt and series compensators used for load voltage control in distribution systems
69.	Power quality conditioner with series-parallel compensation applied to single-phase systems
70.	Power quality improvement in dc drives using Matlab/Simulink
71.	Power quality improvement using interline unified power quality conditioner
72.	Simulation analysis of DVR performance for voltage sag mitigation
73.	Simulation single phase shunt active filter based on p-q technique using Matlab/Simulink development tools environment
74.	Single-phase seven-level grid-connected inverter for photovoltaic system
75.	Transient response of a wind energy conversion system used as active filter
76.	Voltage sag/swell compensation using z-source inverter based dynamic voltage restorer