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ELECTRICAL PROJECT LIST 2021-2022

EE	IEEE LATEST PROJECTS BASED ON ELECTRICALS AND ELECTRONICS (EEE)
E001	494_AUTOMATIC POWER FACTOR CONTROL
E002	471_ANDROID-GREENCHARGE MANAGING RENEWABLE ENERGY IN SMART BUILDINGS
E003	485_ALTERNATE ENERGY FROM BUSY ROAD FOR DEVELOPMENT OF SMART CITY - THERMAL & PIEZO
E004	484_IOT - RESIDENCE ENERGY CONTROL SYSTEM BASED ON WIRELESS SMART SOCKET AND IOT
E005	321_BIRD - SOLAR POWERED IRRIGATION WITH AUTO CONTROL OF PUMP & SMS ALERT
E006	471_GREENCHARGE MANAGING RENEWABLE ENERGY IN SMART BUILDINGS
E007	240_WIRELESS POWER THEFT, OVERVOLTAGE AND OVERLOAD MONITORING SYSTEM
E008	479_WIRELESS POWER THEFT, OVERVOLTAGE AND OVERLOAD MONITORING SYSTEM AND GEYSER AUTOMATION
E009	466_GSM BASED CONTROL UNIT FOR A NOVEL RECONFIGURABLE MICRO GRID ARCHITECTURE WITH RENEWABLE ENERGY SOURCES
E010	ZERO LABOUR - WET WASTE CRUSHER
E011	AN APPROACH BASED ON A ROBOTICS OPERATION SYSTEM FOR THE IMPLEMENTATION OF INTEGRATED INTELLIGENT HOUSE SERVICES SYSTEM
E012	STATE OF ART ON POSSIBILITY & OPTIMIZATION OF SOLAR PV-WIND HYBRID SYSTEM
E013	499_ISLAND - GRID CONNECTED DC DISTRIBUTED GENERATION
E014	228_IOT-HIVE HOME AUTOMATION SYSTEM FOR INTRUSION DETECTION
E015	347_IOT BASED REFRIGERATOR, STORAGE ROOM AND FMCG PRODUCTS STOCK MONITORING WITH EMAIL ALERT OF PURCHASE ORDER
E016	87_BLUETOOTH EMBEDDED ROBOTIC AGRICULTURE PLOWING, SEEDING AND GRASS CUTTING POWERED BY SOLAR ENERGY
E017	518_FARMER FRIENDLY SOLAR BASED VIRTUAL FENCING FOR RURAL AGRICULTURE WITH BATTERY REVERSE CHARGE PROTECTION
E018	479_IOT BASED SMART GEYSER AUTOMATION WRT ENVIRONMENT CONDITION TO SAVE ELECTRICITY
E019	356_ROTATING SOLAR SYSTEM FOR AUTOMOBILES WITH BOOST & CHARGE CONTROL
E020	427_ELECTRIC LINEMAN PROTECTION USING USER CHANGEABLE PASSWORD BASED CIRCUIT BREAKER
E021	429_SUBSTATION PHASE CONTROLLER FOR AUTOMATIC LOAD SHEDDING WITH OVERLOAD ALERT
E022	431_IOT BASED UNDERGROUND CABLE FAULT DETECTION
E023	431_UNDERGROUND CABLE FAULT DETECTION AND ALERT WITH VOICE COMMANDS USING FN-M16P.

E024	319_RENESAS BASED RENEWABLE ENERGY - 12V DC POWER GENERATION USING BACK EMF & SOLAR FOR LED LOAD
E025	315_SOLAR POWERED HOUSE AND TRANSMITTING THE EXTRA POWER TO THE GOVERNMENT MAINS
E026	55_SMART POWER GENERATION BY 2-AXIS CONTROLLED SOLAR PANEL AND POWER OPTIMIZATION
E027	482_ ECSHUB - AN OFF GRID BUNK
E028	169_TWO AXIS BASED SOLAR TRACKING FOR POWER CONSERVATION IN IRRIGATION SYSTEM
E029	445_AUTOMATIC TRANSFORMER LOAD SHARING SYSTEM WITH SMS ALTERING
E030	445_GSM BASED POWER SHARING OF TRANSFORMER WITH AUTOMATIC LOAD SHEDDING SYSTEM
E031	321_IOT BASED IRRIGATION SYSTEM WITH WITHOUT INTERNET AND PUMP SET CONTROL WITH STATUS NOTIFICATION
E032	333_IOT - WEB LABORATORY- REMOTE VIRTUAL LAB ACCESS WITH GRAPH GENERATION.
E033	503_RECOS – SMART SOCKET FOR ELECTRIC VEHICLE, WASHING MACHINE, GEYSER ENERGY CONTROL
E034	504_SWACHH ABHIYAN - DOOR-TO-DOOR PICKUP OF HOUSEHOLD HAZARDOUS WASTE
E035	POWER TRANSMISSION LINE FAILURE DETECTION
E036	514_IEEE_EFFICIENCY IMPROVEMENT OF PHOTOVOLTAIC PANELS BY DESIGN IMPROVEMENT OF COOLING SYSTEM USING WATER COOLER

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IEE001	PREPAID ELECTRICITY BILLING AUTOMATION
IEE002	POST PAID ELECTRICITY SYSTEM AUTOMATION WITH CARD & CARD READER
IEE003	MANAGEMENT OF SUB-TRANSMISSION AND DISTRIBUTION SYSTEM IN POWER SYSTEM USING IOT
IEE004	IMPLEMENTATION OF SOLAR POWER AUTOMATIC BATTERY CHARGING SYSTEM FOR ELECTRIC VEHICLE USING IOT
IEE005	SOLAR TRACKING AND H- DARRIUS WIND TURBINE
IEE006	DATA ACQUISITION FOR ELECTRICAL VEHICLE POWER SYSTEM AUTOMATION USING IOT
IEE007	DESIGN AND EXPERIMENTAL ANALYSIS OF PFC RECTIFIERS FOR DOMESTIC INDUCTION HEATING APPLICATIONS
IEE008	SOLAR BASED DESIGN AND DEVELOPMENT OF PESTICIDE SPRAYER FOR USE IN AGRICULTURE FIELDS USING IOT AND BLUE TOOTH TECHNOLOGY
IEE009	ANALYSIS AND SIMULATION OF FLYING CAPACITOR MULTILEVEL INVERTER USING PD PWM STRATEGY
IEE010	DESIGN AND FABRICATION OF AUTOMATED SMART SOLAR GRASS CUTTER ROBOT USING WIFI AND GPS TECHNOLOGY
IEE011	HIGH GAIN STEP UP DC-DC CONVERTER FOR DC MICRO-GRID APPLICATION
IEE012	IMPLEMENTATION OF HYBRID POWER SOURCE INVERTER
IEE013	IMPLEMENTATION OF HYBRID POWER SOURCE USING IOT
IEE014	DESIGN , ANALYSIS ANDIMPLEMENTATION OF NOVEL SOFT SWITCHED BRIDGELESS INTER LEAVED BOOST PFC CONVERTOR
IEE015	DESIGN AND DEVELOPMENT OF HYBRID INVERTER FOR RENEWABLE SOURCE APPLICATION

IEE016	NATURE INSPIRED SOLAR POWER USING IOT
IEE017	PORTABLE INTENSIVE CARE UNIT EQUIPMENT USING IOT
IEE018	7 LEVEL INVERTER
IEE019	TRANSFORMER LESS INVERTER
IEE020	SOLAR BASED VARIABLE FREQUENCY DRIVE
IEE021	HIGHWAY WINDMILL MONITORING AND CONTROLLING USING IOT
IEE022	HIGHWAY MULTI SYSTEM (WINDMILL / SOLAR)MONITORING AND CONTROLLING USING IOT
IEE023	IMPLEMENTATION OF STARTING AND ADVANCED PROTECTION FOR INDUCTION MOTOR
IEE024	POWER FACTOR CORRECTION GSM METER
IEE025	DESALINATION OF SEA WATER USING HYBRID POWER SOURCE
IEE026	ANTENNAS AND PHOTOVOLTAIC PANELS: TOWARD A GREEN COMMUNICATION MICROWAVE STATION
IEE027	AUTOMATIC COIN BASED CELL PHONE CHARGER WITH DUAL SOLAR TRACKING SYSTEM
IEE028	TRANSMISSION LINE MULTIPLE FAULTS DETECTION AND INDICATION TO ELECTRICITY BOARD
IEE029	DATA ACQUISITION AND MONITORING OF SOLAR PANELS USING 2-CHANNEL DATA LOGGER AND .NET APPLICATION
IEE030	A BUCK-BOOST INTEGRATED FULL BRIDGE INVERTER FOR SOLAR PHOTOVOLTAIC BASED STANDALONE SYSTEM
IEE031	A NOVEL METHOD TO EXTRACT MAXIMUM POWER FROM SOLAR PANEL OF A GRID CONNECTED PHOTOVOLTAIC SYSTEM USING PHASE ANGLE CONTROL AND HYSTERSIS CURRENT CONTROL
IEE032	HIGH -EFFICIENCY DC-DC CONVERTER FOR LARGE INPUT-VOLTAGE FLUCTUATIONS IN SOLAR APPLICATIONS
IEE033	IMPLEMENTATION OF A WEB OF THINGS BASED SMART GRID TO REMOTELY MONITOR AND CONTROL RENEWABLE ENERGY SOURCES
IEE034	ENERBEE-EXAMPLE OF AN ADVANCED METERING INFRASTRUCTURE BASED ON ZIGBEE
IEE035	REAL-TIME DETECTION SYSTEM FOR ELECTRICAL DISTURBANCES FOR REMOTE COMMUNICATION STATIONS AND SMART GRID
IEE036	POWER FACTOR METERING SYSTEM USING ARDUINO
IEE037	WIRELESS RESIDENTAL POWER MONITORING SYSTEM
IEE038	USING ARDUINO DEVELOPMENT PLATFORM IN THE DIAGNOSIS OF AC ELECTRICAL MACHINES
IEE039	BATTERY MANAGEMENT SYSTEM USING ARDUINO
IEE040	ASYMMETRICAL TWO-PHASE INDUCTION MOTOR SPEED CONTROLLED BY MULTILEVEL INVERTER EMPLOYING CASCADED TRANSFORMERS
IEE041	DESIGN AND IMPLEMENTATION OF REAL TIME TRANSFORMER HEALTH MONITORING SYSTEM USING GSM TECHNOLOGY
IEE042	DEVELOPMENT OF EFFICIENT POWER GENERATION USING AUTOMATED RENWABLE SOURCES AND AUTOMATING STREET LIGHTS ACCORDING TO TRAFFIC DENSITY
IEE043	SOLAR TRACKING SYSTEM WITH AUTOMATIC PANEL CLEANING MECHANISM FOR EFFICIENT POWER GENERATION
IEE044	UNIVERSAL ELECTRICAL POWER GENERATION AND MULTIPURPOSE OPTIMIZATION- SOLAR,WIND AND RAIN
IEE045	TALKING ENERGY METER
IEE046	IMPLEMENTATION OF CUK CONVERTER WITH MPPT

	POWER ELECTRONICS
IPE001	A HYBRID METHOD FOR ELECTRIC SPRING CONTROL BASED ON DATA AND KNOWLEDGE INTEGRATION
IPE002	A MODEL PREDICTIVE POWER CONTROL METHOD FOR PV AND ENERGY STORAGE SYSTEMS WITH VOLTAGE SUPPORT CAPABILITY
IPE003	A MODELLING OF HIGH VOLTAGE TRANSMISSION LINE BY USING MATLAB SIMULATION
IPE004	A MULTIFUNCTIONAL NON-ISOLATED DUAL INPUT-DUAL OUTPUT CONVERTER FOR ELECTRIC VEHICLE APPLICATIONS
IPE005	A NOVEL STEP-UP MULTI-INPUT DC-DC CONVERTER FOR HYBRID ELECTRIC VEHICLES APPLICATION
IPE006	A SINUSOIDAL PULSE WIDTH MODULATION (SPWM) TECHNIQUE FOR CAPACITOR VOLTAGE BALANCING OF NESTED T-TYPE FOUR-LEVEL INVERTER
IPE007	ADAPTIVE SPEED CONTROLLER FOR A PERMANENT MAGNET SYNCHRONOUS MOTOR
IPE008	AGGREGATION OF EVS FOR PRIMARY FREQUENCY CONTROL OF AN INDUSTRIAL MICROGRID BY IMPLEMENTING GRID REGULATION
IPE009	AN OPTIMIZED HOME ENERGY MANAGEMENT SYSTEM WITH INTEGRATED RENEWABLE ENERGY AND STORAGE RESOURCES
IPE010	ANALYSIS OF ELECTRIC VEHICLE CHARGING STATION ALLOCATION IN DEREGULATED ELECTRIC POWER SYSTEM
IPE011	ANALYSIS, CONTROL AND DESIGN OF HYBRID GRID-CONNECTED INVERTER FOR RENEWABLE ENERGY
IPE012	BRIDGE-TYPE SOLID-STATE FAULT CURRENT LIMITER BASED ON AC-DC REACTOR
IPE013	DECENTRALIZED OPTIMAL CONTROL OF ELECTRIC VEHICLES FOR PRIMARY FREQUENCY CONTROL IN POWER SYSTEMS
IPE014	DECENTRALIZED OPTIMAL FREQUENCY CONTROL IN AUTONOMOUS MICROGRIDS
IPE015	DESIGN AND IMPLEMENTATION OF AN IMPROVED POWER-ELECTRONIC
IPE016	DESIGN CONSIDERATION OF A DUAL-FUNCTIONAL BRIDGE-TYPE FAULT CURRENT LIMITER
IPE017	DETECTION OF INTERDISC FAULT IN THE WINDINGS OF POWER TRANSFORMER WAVELET APPROACH
IPE018	ENHANCING RESILIENCE OF PV-FED MICROGRID BY IMPROVED RELAYING AND DIFFERENTIATING BETWEEN INVERTER FAULTS AND DISTRIBUTION LINE FAULT
IPE019	FAULT CURRENT ESTIMATION IN MULTI-TERMINAL HVDC GRIDS CONSIDERING MMC CONTROL
IPE020	HYBRID ISLANDING DETECTION METHOD OF PHOTOVOLTAIC-BASED MICROGRID USING REFERENCE CURRENT DISTURBANCE
IPE021	HYBRID SOLAR AND WIND POWER GENERATION WITH GRID INTERCONNECTION SYSTEM FOR IMPROVING POWER QUALITY
IPE022	MODE ADAPTIVE DROOP CONTROL WITH VIRTUAL OUTPUT IMPEDANCES FOR AN INVERTER-BASED FLEXIBLE AC MICROGRID
IPE023	MODELING AND CONTROL FOR SMART GRID INTEGRATION OF SOLAR WIND ENERGY CONVERSION SYSTEM
IPE024	MODELING AND STABILITY ANALYSIS OF ISLANDED DC MICROGRIDS UNDER DROOP CONTROL
IPE025	MODEL-PREDICTIVE-CONTROL FOR DUAL-ACTIVE-BRIDGE CONVERTERS SUPPLYING PULSED POWER LOADS IN NAVAL DC MICRO-GRIDS
IPE026	MODULAR DC-DC CONVERTER COMPARISON OF MODULATION METHODS
IPE027	NOVEL MESOSCALE ELECTROTHERMAL MODELING FOR LITHIUM-ION BATTERIES
IPE028	OPTIMAL ALLOCATION OF PV GENERATION AND BATTERY STORAGE FOR ENHANCED RESILIENCE
IPE029	PERFORMANCE ANALYSIS OF GRID CONNECTED SOLAR PV SYSTEM USING MATLAB SIMULINK
IPE030	PID CONTROLLER ADJUSTMENT USING CHAOTIC OPTIMISATION ALGORITHM FOR MULTI-AREA LOAD FREQUENCY CONTROL

IPE031	POWER MANAGEMENT AND CONTROL OF HYBRID DG AND STORAGE UNITS WITH GRID INTEGRATION USING ANFIS
IPE032	SIMULATION AND ANALYSIS OF FAULTS IN HIGH VOLTAGE DC HVDC POWER TRANSMISSION
IPE033	SOLID STATE BRIDGE TYPE FCL AND NOVEL DC CIRCUIT BREAKER FOR HB-MMC
IPE034	SPEED CONTROL OF BLDC MOTORS USING MRAC
IPE035	VOLTAGE MODULATED DIRECT POWER CONTROL FOR A WEAK GRID-CONNECTED VOLTAGE SOURCE INVERTERS
IPE036	VOLTAGE STABILITY CONTROL OF DC MICROGRID

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