CH. DEVI LAL STATE INSTITUTE OF ENGINEERING & TECHNOLOGY, PANNIWALA MOTA (SIRSA)

ELECTRICAL ENGINEERING DEPARTMENT

Details of UG Project Supervised

Academic year 2011-2012

Sr. No.	Bachelor degree project supervised
1.	Energy Auditing of the College
2.	Traffic Light Control Model
3.	Water Level detector using Transducer
4.	Solar Indicator
5.	Automatic Star-Delta starter
6.	Digital Code Lock Office Gate
7.	Temperature Control Fan Regulator
8.	Cooler Water Level alarm
9.	Model of 132KV Sub-Station
10.	Inverter
11.	AC Drives
12.	Automatic Street Light

Academic year 2012-2013

Sr. No.	Bachelor degree project supervised
1.	Cell phone Device Control
2.	Liquid Level Alarm using 8051 microcontroller
3.	Speed Checker at Highway
4.	Industrial Timer
5.	H-bridge control of DC motor using PC
6.	Automatic Railway Gate Control with Track Switching
7.	Battery Charger
8.	Energy Audit
9.	Energy Efficient Technologies
10.	Automatic Street Lighting
11.	Solar Indicator
12.	Energy Conservation of College

Academic year 2013-2014

Sr. No.	Bachelor degree projects supervised
1.	Hall Effect Sensor based Non-Contact Tachometer
2.	Model of Hydro power Plant
3.	Model of Thermal Power Plant
4.	Obstacle Avoiding Robot without microcontroller
5.	Energy Efficient Technologies
6.	Blind Turn Warning System
7.	DC to DC Step-down Converter
8.	DC speed Synchronization
9.	Auto Traffic Ambulance
10.	Automatic Irrigation System

Academic year 2014-2015

Sr. No.	Bachelor degree projects supervised
1.	Maglev Train
2.	Ocean Thermal Energy Conversion
3.	Cyclo-Converter for Fundamental, f/2 and f/3 using gate Controlled Thyristor
4.	Noise to Electricity Generation
5.	Automatic Solar Tracking with Automatic Street Lighting System
6.	Industrial Drafting Fan in Space Control using BLDC Motor
7.	Solar Power Generation using Auto Tracking System
8.	Moving Message Display
9.	Energy Generation from Pendulum
10.	HVDC Transmission
11.	Energy Audit of the College
12.	Speed Control of 1-phase Induction Motor using Cycloconverter.

Academic year 2015-2016

Sr. No.	Bachelor degree projects supervised
1.	Bluetooth Robot Control
2.	Automatic Room Light Control
3.	Model of Bipolar HVDC Transmission
4.	Automatic 4-Axis Solar Power panel Tracking
5.	Light Intensity Measurement and Control using LUX meter
6.	Power Theft Detection and Wireless system
7.	Grid-Tied, Off- Grid and Hybrid Solar System
8.	High Temperature Superconductor and its Applications

Academic year 2016-2017

Sr. No.	Bachelor degree projects supervised
1.	PIR based Energy Conservation using PWM-LDR & Temp. Sensor
2.	Hybrid Power Generation by Solar & Piezoelectric Crystal
3.	IOT based Energy Meter
4.	Automatic Vehicle Accident Detection and Message System
5.	City Waste Co-generation power Plant
6.	Lineman Safety Protection Scheme using Microcontroller with GSM Module
7.	Design and Implementation of IOT based Home Automation System
8.	Hybrid Vertical Axis Wind Turbine
9.	Thermo- Electric & Solar Hybrid Power Generation
10.	A Smart Cap (micro sleeps detection & control system at Indian railway for Locomotive driver)
11.	Solar Energy Based Home System having Timer and Controlling using app.
12.	Energy Management & Energy Auditing
13.	Underground Fault Distance Converted ever over GSM
14.	Improvement of Voltage Profile of 11KV Distribution Feeder
15.	DC Home
16.	Maintenance of Distribution Transformer
17.	Smart Load Scheduling

Academic year 2017-2018

Sr. No.	Bachelor degree projects supervised
1.	Over Current Relay with Alarm Indicator
2.	Arduino Based Robotic Arm
3.	Forest Fire Early Alarm System
4.	Visiting Different Sites for Data and Images of Transmission Towers
5.	220KV Sub Station Sirsa Model
6.	Zone Wise Parameter Control
7.	Optimum Energy Management System
8.	Automatic Power Factor Correction
9.	RFID Based Automatic Toll Tax Collection System Using Arduino
10.	Automatic and Manual Water Irrigation System

Sr. No.	Bachelor degree projects supervised
1.	Magneto Hydro Dynamic (MHD) Generation- A Model
2.	RFID Based Patient Monitoring System
3.	Automatic Defence Security System
4.	Solar Tracking System
5.	Transmission Towers, Conductors, & Insulators, Sag Calculations of Transmission Lines between two Towers for different Voltages
6.	Overload-cum-Phase Changeover Relay of Grid Control using PID Controller
7.	Energy Efficient Technologies
8.	400kV SubStation Nuhianwali -A model
9.	Bike Start with Helmet & Speed Control messaging
10.	3-phase Faulty Analysis System with Auto reset on temporary fault and permanent trip

Academic year 2018-2019

Sr. No.	Bachelor degree projects supervised
1.	Survey of Solar Power Plants in Haryana
2.	Bluetooth Based College Notice Board using Scrolling LED
3.	Speed Control of Brushless DC Motor
4.	Ardunio Based Weather Station
5.	Temperature Entry-Exit Heartbeat Based Power Saving System
6.	Vehicle Maintenance Monitoring System
7.	Over Voltage and Under Voltage Protection
8.	Hybrid Solar and Wind Generation Highway
9.	Railway Track Cleaning Machine
10.	Prepaid Electricity System by Smart Card

Sr. No.	Bachelor degree projects supervised
1.	Detail Analysis of Power Transmission Towers
2.	2D Robotics Plotter
3.	Advanced Fire and Pollution Control
4.	Sleep Sensing and Alerting System for Drivers
5.	Alcohol Detector
6.	Wi-Fi Automation Control
7.	Model of Advanced Car Parking
8.	New Design of Solar Panel
9.	Regeneration Braking System
10.	Women Safety
11.	Advanced Phase Detector
12.	RADAR System Prototype for Defense

Academic year 2019-2020

Sr. No.	Bachelor degree projects supervised
1.	Visual and Sound Indicator of Current Leakage Fault
2.	Design and Implementation of Fault Detection and Location System for An Overhead Power Cable Distribution
3.	Electricity Generation By rotation of Wheels of vehicle
4.	Thermal protection of Single Phase Induction Motor using Thermal Relay
5.	Weather Station
6.	Pumped Storage Power Plant
7.	Self Balancing Bot
8.	UV based Water Level measurement with energy management systems
9.	Solar Tracking System with Weather Sensor
10.	Concentrating Solar Water Heater
11.	Deregulation of Power System
12.	Solar Agriculture Sprayer

Academic year 2020-2021

Sr. No.	Bachelor degree projects supervised
1.	Train Collision Avoidance System (TCAS)- An Indigenous ATP System at Rail Mechatronics Pvt. Ltd.
2.	Compressed Air Storage System
3.	Pumped Storage Power Plant
4.	Scrolling Display Pad System
5.	Study of Type of Transformers
6.	Study of Smart Metering
7.	Study of Overhead Electrification Systems of Railways
8.	Smart Highway System with Waste Heat Utilization
9.	Dark Line Follower Car

Academic year 2023-2024

Sr. No.	Bachelor degree projects supervised
1.	Voice Control Elevator System
2.	Biometric Authentication with IoT (SMS) Alert
3.	Mobile Operated Smart Battery
4.	Battery Management System
5.	Hidden Camera Detection Using IoT
6.	Design and Manufacturing of Hybrid Renewable Energy Tree
7.	Earthquake Detection System with Seismograph
8.	IoT Enabled Smart Almirah for File Sorting
9.	Electric Fault Location Detector

Academic year 2024-2025

Sr. No.	Bachelor degree projects supervised
1.	Shocking Dupatta
2.	Design and Implementation of a Hybrid Power Plant combining Wind and Solar Energy
3.	Electrical Pole Safety Monitoring Systems with Leakage Detection
4.	Two Way Switch Forward Converter
5.	Battery Health Insight IoT
6.	Electricity Generation using Waste Materials & Dry Air Filter
7.	Emergency Light System
8.	Single Phase Power Theft Detection using IoT

Sr. No.	Bachelor degree projects supervised
1.	Piezoelectric Shoes
2.	Automatic White Board Cleaner
3.	Smart Automated Bridge with Flood Detection
4.	IoT Based Smart Home Automation
5.	Automatic Window Control
6.	Fire and Smoke Detection System with Alarm using Arduino
7.	IoT Based Safety Helmet for Electric Lineman.

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