

Value-added Programme conducted in

AY-2023-24

Sr. No.	Class	No. of Student Participated	Title of Value-added Programme	Duration
1	S. Y. Electrical	34	PLC Programming	26 March to 30 March 2024
2	T. Y and Final Year Electrical	57	Industrial and Commercial Applications of Programmable Logic Controller	6 November to 9 November 2023
3	S. Y. Electrical	34	PCB Designing Using Proteus	30 October to 3 November 2023

AY-2024-25

Sr. No.	Class	No. of Student Participated	Title of Value-added Programme	Duration
1	T. Y and Final Year Electrical	48	Advance industrial Automations	19/08/2024 to 23/08/2024
2	S. Y. Electrical	31	PCB Design (EasyEDA) and Embedded Programming (Intel 8051 /STM8)	07/10/2024 to 11/10/2024

Extra-Curricular Activities

AY-2023-24

Sr. No.	Name of Activity	Attendees	Date of Activity	No. of Attendees
1	Parent Meet (Even Sem 2023-24)	SY, TY and B Tech Electrical	29/04/2024	30

2	Alumni Meet (Odd Sem 2023-24)	Alumni	02/09/2023	1
3	Parent Meet (Odd Sem 2023-24)	SY, TY and B Tech Electrical	16/09/2023	15
AY-2024-25				
Sr. No.	Name of Activity	Attendees	Date of Activity	No. of Attendees
1	Alumni Meet (Odd Sem 2024-25)	Alumni	19/10/2024	12
2	Parent Meet (Odd Sem 2024-25)	Parents of SY, TY and B Tech Students	26/10/2024	27

Industrial Visits Conducted

AY 2023-24

Sr. No.	Name of Activity	Details of activity	Period of Activity	Beneficiary Number
1	Industrial Visit at Khodashi power pvt.ltd.karad	S.Y. Electrical T.Y. Electrical	20/10/2023	43
2	Practical Coducation visit at PVG College of Engg. and Tech. Pune	Final Year B.Tech	3/11/2023	43

3	Industrial Visit at Suzlon Global Services Ltd, Chalkewadi, Satara	T.Y. Electrical	19/4/2024	18
4	Industrial Visit at Kisanveer Satara Sahakari Sakhar Karkhana, Bhuij, Satara	S.Y. Electrical	25/04/2024	27
AY 2024-25				
Sr. No.	Name of Activity	Details of activity	Period of Activity	Beneficiary Number
1	Industrial Visit at AG Electric Motor Malkapur, Karad	S.Y. Electrical	21/10/2024	30
2	Industrial Visit at Krishabh Urja LLP Green energy	T.Y. Electrical & Final Year B.Tech	23/10/2024	37
3	Practical Coducation visit at ADCET, Ashta Sangli.	Final Year B.Tech	18/11/2024	17

Co-Curricular Activities AY-2023-24

SR. NO.	Name of Activity	Details of activity	Period of Activity	Beneficiary Number
1	Case study on Magnetic material used in PMDC machine	SY B Tech Electrical	01/08/2023 to 22/11/2023	4
2	Case study on Conducting material used in transformer	SY B Tech Electrical	01/08/2023 to 22/11/2023	4
3	Case study on Insulating material used in transformer	SY B Tech Electrical	01/08/2023 to 22/11/2023	3

4	Case study on Semiconducting material used in Electronic circuit boards (Diode, Transistors etc.) in various applications (Computer).	SY B Tech Electrical	01/08/2023 to 22/11/2023	4
5	Case Study on Insulating material used in different Insulators.	SY B Tech Electrical	01/08/2023 to 22/11/2023	4
6	Case study on Insulating material used in Cables.	SY B Tech Electrical	01/08/2023 to 22/11/2023	4
7	Case study on Magnetic material used in Various Applications (Speakers).	SY B Tech Electrical	01/08/2023 to 22/11/2023	3
8	Case study on Insulating material used in Induction motor	SY B Tech Electrical	01/08/2023 to 22/11/2023	3
9	Case study on Conducting material used in Induction motor	SY B Tech Electrical	01/08/2023 to 22/11/2023	4
10	Case study on Conducting material used in Alternator.	SY B Tech Electrical	01/08/2023 to 22/11/2023	4
11	Presentation on frequency response of RC coupled and transformer coupled amplifier	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
12	Presentation on measurement of OP-AMP parameter (Input and Output Characteristics and CMRR)	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
13	Presentation on operation of op amp in Inverting mode on AC input	SY B Tech Electrical	01/02/2024 to 25/05/2024	3

14	Presentation on operation of op amp in non-inverting mode on AC input	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
15	Presentation on verification truth table of following basic and derived gates a. AND, OR, AND b. Ex-OR, NAND, NOR	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
16	Presentation on verification of truth table of flip flop	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
17	Presentation on design and implementation of half adder using logic gates	SY B Tech Electrical	01/02/2024 to 25/05/2024	3
18	Presentation on design and implementation of full adder using logic gates	SY B Tech Electrical	01/02/2024 to 25/05/2024	3
19	Presentation on design and implementation of Multiplexer and study	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
20	Presentation on input characteristics and output characteristics of common emitter configuration.	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
21	Course Project on Model of Solar water pump	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
22	Course Project on Solar Night Light controller	SY B Tech Electrical	01/02/2024 to 25/05/2024	4

23	Course Project on Model of Smart Street Lighting System Using Renewable Energy Resources	SY B Tech Electrical	01/02/2024 to 25/05/2024	3
24	Course Project on Solar Mobile Phone charger	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
25	Course Project on Model on an Early Wind Turbine	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
26	Course Project on Model of an anemometer Wind Turbine	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
27	Course Project on Model of Savonius Wind Turbine	SY B Tech Electrical	01/02/2024 to 25/05/2024	3
28	Course Project on Model of Darrieus Wind Turbine	SY B Tech Electrical	01/02/2024 to 25/05/2024	3
29	Course Project on Model of Biogas plant	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
30	Course Project on Model of Hydro power plant	SY B Tech Electrical	01/02/2024 to 25/05/2024	4
31	Course Project on Automatic Electronics Bell	TY B Tech Electrical	01/08/2023 to 22/11/2023	3
32	Course Project on RFID Door Lock	TY B Tech Electrical	01/08/2023 to 22/11/2023	4
33	Course Project on LPG Gas Leakage detector	TY B Tech Electrical	01/08/2023 to 22/11/2023	3

34	Course Project on Microcontroller based automatic traffic signal controller	TY B Tech Electrical	01/08/2023 to 22/11/2023	3
35	Course Project on Radar detection by microcontroller	TY B Tech Electrical	01/08/2023 to 22/11/2023	4
36	Presentation on Automotive Industry	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
37	Presentation on Healthcare Industry	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
38	Presentation on Industrial Automation	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
39	Presentation on Environmental Monitoring	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
40	Presentation on Consumer Electronics	TY B Tech Electrical	01/02/2024 to 25/05/2024	2
41	Case Study on Examining the Integration of Smart Grid Technology: A Field Study on the Implementation at the Nearest Electrical Substation.	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
42	Case Study on Examining the Implementation and Challenges of Smart Grids in India: A Comprehensive Research Report.	TY B Tech Electrical	01/02/2024 to 25/05/2024	4

43	Case Study on Exploring Communication Methods used in Smart Grids: A Comprehensive Study on their Advantages and Disadvantages with Research Report Submission.	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
44	Case Study on Exploring Smart Storage Solutions within Smart Grids: A Comprehensive Study and Report Submission.	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
45	Case Study on Exploring Vehicle-to-Grid Integration: A Comprehensive Analysis of Implementation and Challenges in the Indian Context with a Detailed Report.	TY B Tech Electrical	01/02/2024 to 25/05/2024	2
46	Course Project on small motor protection system	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
47	Course Project on fault detection of transmission line	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
48	Course Project on short circuit protection using fuse	TY B Tech Electrical	01/02/2024 to 25/05/2024	2
49	Course Project on password based circuit breaker	TY B Tech Electrical	01/02/2024 to 25/05/2024	4
50	Course Project on short circuit protection on dc supply	TY B Tech Electrical	01/02/2024 to 25/05/2024	4

51	Course Project on 12V to 24 V converter Prototype	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	4
52	Course Project on Speed Control of EV using Microcontroller	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	4
53	Course Project on Automatic Solar Tracking System for EV	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	3
54	Course Project on Regenerative Braking system	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	4
55	Course Project on Anti-Sleep Alarm with driver Safety Using Uno	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	4
56	Course Project on Design and implementation of 3 phase motor Auto Starter	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	4
57	Course Project on Cooler for EV Battery	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	3
58	Course Project on Electric Vehicle Charging System	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	4
59	Course Project on Smoke detector for Electric Vehicle	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	3
60	Course Project on A remote controlled Car using wireless Technology	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	3

61	Course Project on Vehicle tracking using GPS	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	3
62	Course Project on Energy analysis of Evs on different driving cycles	Final Year B.Tech Electrical	01/08/2023 to 22/11/2023	4
63	Value added program on PLC Programming	Second Year Electrical	26/03/2024 to 30/03/2024	34
64	Value added program on Industrial and Commercial Applications of Programmable Logic Controller	Third Year and Final Year Electrical	6/11/2023 to 9/11/2023	60
65	Value added program on PCB Designing Using Proteus	Second Year Electrical	30/10/2023 to 3/11/2023	34
66	Technical event at department level, "PLC Programming"	All UG Students	5/26/2024	24
67	Technical event at department level, "Engineering Treasure Hunt"	All UG Students	5/26/2024	33
68	Industrial Visit at Suzlon Global Services Ltd, Chalkewadi, Satara	T.Y. B. Tech Electrical	4/19/2024	18
69	Industrial Visit at Kisanveer Satara Sahakari Sakhar Karkhana, Bhuinj, Satara	S.Y. B. Tech Electrical	4/25/2024	27

70	NDLI Activity on "Book Review Contest"	All Electrical Students	26/03/2024	14
71	Guest Lecture on "Sportsmanship"	First Years Students	07/02/2024	109
72	State Level Three Day Faculty Orientation Program on "National Education Policy - 2020"	Faculty	23/01/2024 to 25/01/2024	71
73	Guest Lecture on "Awareness about Automation and IoT Implementation in Industry"	TY B Tech Electrical	3/11/2023	17

AY 2024-25

SR. NO.	Name of Activity	Details of activity	Period of Activity	Beneficiary Number
1	Comprehensive Study on Conductive Materials -Copper (Cu)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
2	Comprehensive Study on Conductive Materials -Aluminum (Al)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
3	Comprehensive Study on Conductive Materials -Silver (Ag)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
4	Comprehensive Study on Conductive Materials -Gold (Au)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
5	Comprehensive Study on Conductive Materials -Nickel (Ni)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
6	Comprehensive Study on Conductive Materials -Tin (Sn)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
7	Comprehensive Study on Dielectric Materials Lead zirconate titanate (PZT)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
8	Comprehensive Study on Dielectric Materials Polyethylene (PE)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1

9	Comprehensive Study on Dielectric Materials Polypropylene (PP)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
10	Comprehensive Study on Dielectric Materials Silicon Dioxide (SiO ₂)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
11	Comprehensive Study on Dielectric Materials Mica	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
12	Comprehensive Study on Dielectric Materials Barium titanate	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
13	Comprehensive Study on Semiconductors Silicon (Si)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
14	Comprehensive Study on Semiconductors Gallium Arsenide (GaAs)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
15	Comprehensive Study on Semiconductors Silicon Carbide (SiC)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
16	Comprehensive Study on Semiconductors Germanium (Ge)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
17	Comprehensive Study on Semiconductors Indium Phosphide (InP)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
18	Comprehensive Study on Semiconductors Zinc Oxide (ZnO)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
19	Comprehensive Study on Semiconductors Organic Semiconductors	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
20	Comprehensive Study on Magnetic Materials Iron (Fe)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
21	Comprehensive Study on Magnetic Materials Nickel (Ni)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
22	Comprehensive Study on Magnetic Materials Cobalt (Co)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
23	Comprehensive Study on Magnetic Materials Ferrites	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
24	Comprehensive Study on Magnetic Materials	SY B Tech Electrical	01/08/2024 to 22/11/2024	1

	Neodymium-Iron-Boron (NdFeB)			
25	Comprehensive Study on Magnetic Materials Alnico	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
26	Comprehensive Study on Refractory material Alumina (Aluminum Oxide, Al ₂ O ₃)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
27	Comprehensive Study on Refractory material Alumina Silica (Silicon Dioxide, SiO ₂)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
28	Comprehensive Study on Refractory material Alumina Zirconia (Zirconium Oxide, ZrO ₂)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
29	Comprehensive Study on Radioactive material Cesium-137 (Cs-137)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
30	Comprehensive Study on Radioactive material Cobalt-60 (Co-60)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
31	Comprehensive Study on Radioactive material Plutonium-238 (Pu-238)	SY B Tech Electrical	01/08/2024 to 22/11/2024	1
32	Survey of grounding system installed in industry for different equipments	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
33	Online survey of different electrical safety equipments used in maintainace purpose	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
34	Field visit on electrical grounding system installed in domestic application	TY B Tech Electrical	01/08/2024 to 22/11/2024	2
35	Online survey on National Electrical Safety codes and standards used for manufacturing of safety equipments	TY B Tech Electrical	01/08/2024 to 22/11/2024	2
36	Seminar on Six steps safety methods used in different types of maintainance	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
37	Field visit to Solar rooftop system for understanding grounding	TY B Tech Electrical	01/08/2024 to 22/11/2024	3

	system			
38	Field visit on 11kv/440 volts distribution transformer for demonstrate of earthing system.	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
39	Field visit for demonstration of electrical safety in the commercial and industrial applications	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
40	Seminar on Eight step maintainance program followed by industry for electrical safety	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
41	Seminar on Memory Organisation of PIC Microcontroller with External Memory	TY B Tech Electrical	01/08/2024 to 22/11/2024	4
42	Seminar on Architecture of PIC Microcontroller	TY B Tech Electrical	01/08/2024 to 22/11/2024	4
43	Seminar on SFRs, Flags , Stack Registers of PIC Microcontroller	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
44	Seminar on Counters & Timers of PIC Microcontroller	TY B Tech Electrical	01/08/2024 to 22/11/2024	4
45	Seminar on Instruction set of PIC Microcontroller& Addressing modes with Addressing Modes	TY B Tech Electrical	01/08/2024 to 22/11/2024	4
46	Seminar on Data Transfer and Arithmetic Instructions of PIC Microcontrollers	TY B Tech Electrical	01/08/2024 to 22/11/2024	4
47	Seminar on Jump & Call Instructions with Logical Instructions of PIC Microcontrollers	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
48	Seminar on Assembly Language Programming with writing a subroutine.	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
49	Seminar on Interrupt Structure of PIC Microcontroller	TY B Tech Electrical	01/08/2024 to 22/11/2024	4
50	Seminar on Serial & Parallel Communication Protocol using PIC Microcontroller	TY B Tech Electrical	01/08/2024 to 22/11/2024	4
51	Course Project on PLC Based Security Bayring Gate	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
52	Course Project on Motion	TY B Tech	01/08/2024 to 22/11/2024	3

	Detector Light Based on PLC	Electrical		
53	Course Project on Automatic Conveyer Belt Based on PL	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
54	Course Project on PLC Based Temperature Control Water Heater	TY B Tech Electrical	01/08/2024 to 22/11/2024	2
55	Course Project on Smart Irrigation System Using PLC	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
56	Course Project on PLC Based Automatic Pump Controller	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
57	Course Project on RYG Control Signal Using PLC	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
58	Course Project on Barrier Gate Using PLC	TY B Tech Electrical	01/08/2024 to 22/11/2024	3
59	Course Project on PLC Based coffee vending machine	TY B Tech Electrical	01/08/2024 to 22/11/2024	2
60	Survey on Hybrid vehicle drivetrains	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	1
61	Survey on Fuel efficiency analysis For HEVs	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	1
62	Survey on Latest EV , HEV in india	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	4
63	Survey on Power electronics technology used in EVs	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	4
64	Survey on EV and HEV Policy & Regulatory Framework in india	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	4
65	Seminar on "5G Technology"	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
66	Seminar on Bio Battery systems	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
67	Seminar on Solar related Govt.policies	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
68	Seminar on smart electricity meter	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
69	Seminar on Robotics and Automation in Agriculture system	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
70	Seminar on Poly fuse	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
71	Seminar on Foot step power	Final Year	27/09/2024 to 16/10/2024	1

	Generation	B.Tech Electrical		
72	Seminar on Electromagnetic Bomb	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
73	Seminar on Recent Trends in Battery Technology	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
74	Seminar on Geo Thermal Power Plant	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
75	Seminar on 5S Mantra used in Industry	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
76	Seminar on AI in Electrical Engineering	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
77	Seminar on Liquid Electricity	Final Year B.Tech Electrical	27/09/2024 to 16/10/2024	1
78	Course project on Temperature control using RTD (PT 100) sensor	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	4
79	Course project on bottle filling using capacitive proximity sensor	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	4
80	Course project on water level control using float sensor.	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	2
81	Course project on Toll barrigate using inductive proximity sensor	Final Year B.Tech Electrical	01/08/2024 to 22/11/2024	4