



Date : 18/04/2022

Notice

Department of Electrical Engg is going to conduct a free of cost Workshop on "Industrial Approach In Electrical And Electronics" on the date 21/04/22 to 22/04/22 for SE student's. Interested students enroll their name to Prof. R.B.Sadaphale before 20/04/2022.

Time : 10:30 AM To 5.00PM Venue :For TH- SE Classroom Electrical Engineering Dept

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HOD Electrical

Head of Department Electrical Engineering Sandip Institute of Technology and Research Centre Mahiravani, Nashik-422213





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Theory Course Content- Topics covered during the Workshop -

□ Electronics Components Study :

Identification - Name, Symbol, Unit, Physical appearance, size, weight

- **Testing using DMM-** Check working conditions & compare with std. values, Possible faults with respective reading, Detects the faults.
- Working Function of component and its application

Ratings -Specifications, Available range, Safe limit use

Availability-Market, Name of the shops in city, district, Mumbai, Price in retail &
Wholesale of various components, some are listed below.

	21	Transformers assorted- Step Down	
Metal Film Resistor (MFR)	22	Relay- General purpose various shapes, sizes	
Ceramic Resistor	23	Solenoid- Valve, Latch, Switch	
Wire Wound Resistor	24	Loud Speaker	
Tapped Wire Wound Resistor	25	General Purpose Diode	
	26	Point Contact Diode- Signal Diode	
	27	LEDs assorted sizes & colors, Focus	
Pot- PVC, Metal Shaft Liner, Log	28	Zener Diode	
LDR all sizes & packages	29	Power diode	
Thermistor NTC, PTC diff. shapes	30	Metal Diode	
Thermostat	31	Photo Diode	
Ceramic Capacitor	32	Photo Transistor	
Paper Capacitor	33	BJT Transistors NPN, PNP	
Polyester capacitor	34	Power Transistor	
Mica Capacitor	35	SCR	
Tantalum capacitor	36	Diac	
Electrolytic capacitor	37	Triac	
Super Capacaitor	38	MOSFET P Channel, N Channel	
Inductor	39	IGBT	
CT- Current Transformer	40	Fuse &Connectors	
	Wire Wound Resistor Tapped Wire Wound Resistor Presets all types, Vert, Hori. Small, big Multiturn preset Vertical, Horizental Pot- PVC, Metal Shaft Liner, Log LDR all sizes & packages Thermistor NTC, PTC diff. shapes Thermostat Ceramic Capacitor Paper Capacitor Polyester capacitor Mica Capacitor Mica Capacitor Electrolytic capacitor Super Capacaitor Inductor	Metal Film Resistor (MFR)22Ceramic Resistor23Wire Wound Resistor24Tapped Wire Wound Resistor25Presets all types, Vert, Hori. Small, big26Multiturn preset Vertical, Horizental27Pot- PVC, Metal Shaft Liner, Log28LDR all sizes & packages29Thermistor NTC, PTC diff. shapes30Ceramic Capacitor32Paper Capacitor33Polyester capacitor34Mica Capacitor35Tantalum capacitor36Electrolytic capacitor38Inductor39	





Construction-

	РСВ	-Different types, PCB Designing manually, as well as by software (Express PCB) Image exposure technique using Laser Printer	
C	116	a of Soldering Aids- Soldering Iron ratings, Solder metal proportions, flux, acid their e.	
	Circuit Assembly- Soldering skill tips- use of proper soldering Iron, Metal,Flux, Cleaning, Tinning etc.		
	Soldering	-Use of proper metals, Soldering Iron, Proper required time to solder. PCB circuit study, Components lead cleaning, placement of proper component in right polarity, Soldering skill tips, lead cutting aftersoldering.	
	Connections - Power +ve, -ve, Ground, -Input-Output using std. color code wires.		
	Desoldering -	Desolder pump, Desolder wire & their practice. How to remove (Desolder) components.	
C	Project	-Assembly of few simple project, their connection & testing, Representation of project to get easy demonstration for user	



Sandip foundation's Sandip Institute of Technology and Research Centre, Nashik Department of Electrical Engineering



Workshop Report

Academic Year 2021-22

Event Title: Industrial approach in electrical and electronic

Event Date: 21/04/22 to 22/04/22

Event Conduction Duration: 10.00 am to 5.00 pm

Event Venue: SE Classroom, Electrical Engg Dept, E Building, SITRC

Event guest Resource Person Details: Er.Sanjay Chaudhari Director, Electronic Study Circle, Nashik

Name of Event Co-ordinator: Prof.R.B Sadaphale

No of Participants: SE: 44 Students



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Event Objective:

- 1) Needs of industry and demands in the field of electrical and electronic engineering
- 2) Identify various electrical and electronic equipment, circuits and their sizes
- 3) Working of electrical and electronic component

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Outcome:

- 1) Calculate the rating of Electrical and electronic Equipments.
- 2) Indentification of electrical and electronic components and its sizes.
- PCB designing Photos of Event:





