Lesson Plan

Name of Faculty	: VIJAY
Discipline	: COMPUTER ENGG.
Semester	: 1 st
Subject	: ELECTRONICS SHOP
Lesson Plan	
Duration	: 15 Weeks
Work Load (Lectur	e/Practical) per Week (in Hours): Lecture – 0, Practical – 06

Week		Practical
	PRACTICAL DAY	
1 st WEEK	1	UNIT - I Basic Electronic Components 1.1 Concept of Resistors, Color Coding, Tolerance, Maximum power rating, Application of LDR. 1.2 Classification of Capacitors, Coding of capacitors-using numerals, directly printed valueson capacitors, Ceramic capacitor and Electrolytic capacitor.
	2	UNIT - I Basic Electronic Components 1.1 Concept of Resistors, Color Coding, Tolerance, Maximum power rating, Application of LDR. 1.2 Classification of Capacitors, Coding of capacitors-using numerals, directly printed valueson capacitors, Ceramic capacitor and Electrolytic capacitor.
	1	1.3 Concept of Inductors 1.4 Testing of components using Multi meter/LCR Q-meter
2 ND WEEK	2	1.3 Concept of Inductors 1.4 Testing of components using Multi meter/LCR Q-meter
3 rd WEEK	1	UNIT - II Soldering & De-soldering 2.1 Identify different types of soldering guns and practice soldering of different electronic active and passive components and IC bases on lug boards and PCBs.
	2	UNIT - II Soldering & De-soldering 2.1 Identify different types of soldering guns and practice soldering of different electronic active and passive components and IC bases on lug boards and PCBs.
4 th WEEK	1	 2.2 Join the broken PCB track and test 2.3 Practice de-soldering using pump and wick 2.4 Prepare component for soldering. 2.5 Demonstrate soldering and de-soldering using soldering and de-soldering stations.
	2	 2.2 Join the broken PCB track and test 2.3 Practice de-soldering using pump and wick 2.4 Prepare component for soldering. 2.5 Demonstrate soldering and de-soldering using soldering and de-soldering stations.
5 TH WEEK	1	UNIT - III Active Electronic Components

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9 TH WEEK 4.3 Function Generator, Front panel controls, Functions: sine wave, square wave, triangular wave and Amplitude measurement. UNIT - IV Electronic Testing Equipments 4.1 Power Supply, DC power supply, Concept of Dual power supply	9 TH WEEK 4.3 Function Generator, Front panel controls, Functions: sine wave, square wave, triangular wave and Amplitude measurement. UNIT - IV Electronic Testing Equipments 4.1 Power Supply, DC power supply, Concept of Dual power supply 4.2 Cathode Ray Oscilloscope (CRO), CRO probes, Front panel controls, AC/DC voltage measurement, Frequency measurement,			wave form generation.
9 ^{WEEK} square wave, triangular wave and Amplitude measurement. UNIT - IV Electronic Testing Equipments 4.1 Power Supply, DC power supply, Concept of Dual power supply	9 ^m WEEK square wave, triangular wave and Amplitude measurement. UNIT - IV UNIT - IV 2 Electronic Testing Equipments 4.1 Power Supply, DC power supply, Concept of Dual power supply 4.2 Cathode Ray Oscilloscope (CRO), CRO probes, Front panel controls, AC/DC voltage measurement, Frequency measurement,			4.3 Function Generator, Front panel controls, Functions: sine wave,
UNIT - IV Electronic Testing Equipments 4.1 Power Supply, DC power supply, Concept of Dual power supply	2 UNIT - IV Electronic Testing Equipments 4.1 Power Supply, DC power supply, Concept of Dual power supply 4.2 Cathode Ray Oscilloscope (CRO), CRO probes, Front panel controls, AC/DC voltage measurement, Frequency measurement,			square wave, triangular wave and Amplitude measurement.
Electronic Testing Equipments 2 4.1 Power Supply, DC power supply, Concept of Dual power supply	2 Electronic Testing Equipments 4.1 Power Supply, DC power supply, Concept of Dual power supply 4.2 Cathode Ray Oscilloscope (CRO), CRO probes, Front panel controls, AC/DC voltage measurement, Frequency measurement,		2	UNIT - IV
4.1 Power Supply, DC power supply, Concept of Dual power supply	2 4.1 Power Supply, DC power supply, Concept of Dual power supply 4.2 Cathode Ray Oscilloscope (CRO), CRO probes, Front panel controls, AC/DC voltage measurement, Frequency measurement,			Electronic Testing Equipments
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A 2 Cathode Bay Oscilloscope (CBO) CBO prohos Front panel	controls, AC/DC voltage measurement, Frequency measurement,			A 2 Cathode Bay Oscilloscope (CBO) CBO probes Front panel
controls AC/DC voltage measurement Frequency measurement	controls, AC/DC voltage measurement, rrequency measurement,			controls AC/DC voltage measurement Frequency measurement
controls, AC/DC voltage measurement, rrequency measurement,	Wave form generation			wave form generation

		4.3 Function Generator, Front panel controls, Functions: sine wave,
		square wave, triangular wave and Amplitude measurement.
		4.4 Digital Multi Meter, Front panel controls of DMM
		4.5 Study of AC and DC Waveforms
		4.6 Construction of various electronic circuits on breadboard
	1	Circuits like: rectifiers, filter circuits, clipper, clamper, transistor
		amplifiers, logic gates, LED driver circuit, power supply, etc
		4.7 Testing of outputs of various electronic circuits using test
10 TH WEEK		Equipment.
10 WEEK		4.4 Digital Multi Meter, Front panel controls of DMM
		4.5 Study of AC and DC Waveforms
		4.6 Construction of various electronic circuits on breadboard
	2	Circuits like: rectifiers, filter circuits, clipper, clamper, transistor
		amplifiers, logic gates, LED driver circuit, power supply, etc
		4.7 Testing of outputs of various electronic circuits using test
		Equipment.
11^{TH} WEEK		2 ND SESSIONAL EXAM
		UNIT - V
	1	AC and Electrical Cables
	T	5.1 Identify the Phase, Neutral and Earth on power Socket.
		5.2 Construct a test lamp and use it to check mains.
12 WEEK	2	UNIT - V
		AC and Electrical Cables
	2	5.1 Identify the Phase, Neutral and Earth on power Socket.
		5.2 Construct a test lamp and use it to check mains.
	1	5.3 Use a Tester to monitor AC power.
13 th WEEK-		5.4 Measure the voltage between phase and ground and rectify
		earthing.
		5.5 Identify and test different AC mains cables.
	2	5.3 Use a Tester to monitor AC power.
		5.4 Measure the voltage between phase and ground and rectify
		earthing.
		5.5 Identify and test different AC mains cables.
14 TH WEEK	1	5.6 Skin the electrical wires /cables using the wire stripper and
		cutter
		5.7 Prepare the mains cable for termination.
	2	5.6 Skin the electrical wires /cables using the wire stripper and
		cutter
		5.7 Prepare the mains cable for termination.
15 TH WEEK	3 RD SESSIONAL	