Lesson Plan

Discipline	:	Electrical Engineering
Semester	:	1 st Semester
Subject	:	PEE
Lesson Plan Duration	:	13-15 Week

Week		Theory	Practical		
	Lecture Day	Торіс	Practical Day	Торіс	
	1	Introduction, Nature of Electricity, Electric current,		PRACTICAL-1 Familiarization of basic	
	2	Electrical Energy, Electrical power and their unit.	1	components/equipment like ammeter, voltmeter, watt meter, resistance, capacitor, inductor, energy meter, power factor meter, CRO, multi- meter etc and their operation, uses .	
	3	Resistance, conductivity and resistivity, resistance properties.	2	PRACTICAL-1	
	4	Rating and wattages of Electrical appliances, heating effect of Electrical current. Introduction to Capacitors, capacitance, Variable capacitor, Factors affecting capacitance of a capacitor and its various connections.	Z	Facilicate Familiarization of basic components/equipment like ammeter, voltmeter, watt meter, resistance, capacitor, inductor, energy meter, power factor meter, CRO, multi- meter etc and their operation, uses .	
	5	Factors affecting capacitance of a capacitor and its various connections.	3	PRACTICAL-2	
	6	Energy stored in capacitor, Charging and discharging of a capacitor.		using colour coding method.	
	7	Charging and discharging of a capacitor.	4	PRACTICAL-2	
	8	REVISION UNIT-1	-	using color coding method.	
	9	Unit-2 DC Machines Ohm's law with practical implementation.	5	PRACTICAL-3 Observation of change in resistance of a bulb in hot and cold conditions,	
	10	Definition of DC circuit, types of DC circuits		using voltmeter and ammeter	
	11	Concept of voltage source & current source, connections and their conversions.	6	PRACTICAL-3 Observation of change in resistance of	

12	Concept of voltage source & current source, connections and their conversions.		a bulb in hot and cold conditions, using voltmeter and ammeter
13	Wheatstone Bridge.		PRACTICAL-4
14	Kirchhoff's Laws-KVL and KCL.	7	To charge and discharge a capacitor and to show the graph on C.R.O.
15	Kirchhoff's Laws-KVL and KCL.	_	PRACTICAL-4
16	Star – Delta connections and their conversion.	8	To charge and discharge a capacitor and to show the graph on C.R.O.
17	Revision / Problem solutions	٩	PRACTICAL-5
18	UNIT III Electrostatics & Magneto statics		series and parallel.
	Concepts of Electrostatics, Coulomb's law.		
19	Concept of magnetism, Magnetic field, Magnetic lines of force	10	PRACTICAL-5 Verification of laws of capacitors in
20	Definition of Electromagnetism,		series and parallel.
21	Magnetic effect of electric current, direction of magnetic field and current.	11	PRACTICAL-6
			between voltage and current
22	Current carrying conductors in a magnetic field and methods to find its direction, applications		
23	Analogy between electric and magnetic circuit.		
39	Introduction to maintenance free batteries.	20	PRACTICAL-10
40	Disposal of batteries	20	To find the ratio of inductance of a coil having air-core and iron-core respectively and to observe the effect of introduction of a magnetic core on coil inductance.
41	Revision / Problem solution		PRACTICAL-11
42	REVISION UNIT-1	21	Verification of Faraday's law of electromagnetic induction

43	REVISION UNIT-1		PRACTICAL-11
44	REVISION UNIT-2	22	Verification of Faraday's law of electromagnetic induction
45	REVISION UNIT-2		PRACTICAL-12
46	REVISION UNIT-3	23	To obtain BH curve of a magnetic material
47	REVISION UNIT-3		PRACTICAL-12
48	REVISION UNIT-4	24	To obtain BH curve of a magnetic material
49	REVISION UNIT-4		PRACTICAL-13
		25	Demonstration of parts of a battery and
50	REVISION UNIT-5		find the specific gravity of battery, Demonstration of charging and
			discharging of Battery and measure the
			during charging and discharging condition.
51	REVISION UNIT-5		PRACTICAL-13
		26	Demonstration of parts of a battery and
52	Revision All Unit		find the specific gravity of battery, Demonstration of charging and discharging of Battery and measure the terminal voltage During charging and discharging condition.
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Lesson Plan

Discipline	:	Electrical Engineering
Semester	:	1 st Semester
Subject	:	Fundamental of Information Technology

Lesson Plan Duration :

Week	Theory		Practical		
	Lecture Day	Topic (including assignment / test)	Practical Day	Торіс	
	1	Brief history of development of computers, Definition of Computer, Block diagram of a Computer, Hardware, Software, Booting: Cold and Hot Booting,	1	Browser features, browsing, using various search engines, writing search queries .	
	2	Interaction between the CPU and Memory with Input/output devices, Function of CPU and major functional parts of CPU.	2	Visit various e- governance/Digital India portals, understand their features, services offered.	
	3	Memory, Bit, Nibble, Byte, KB, MB, GB, TB, PB, Functions of memory, Use of storage devices in a Computer, List types of memory used in a Computer, Importance of cache memory, CPU speed and CPU word length	3	. Read Wikipedia pages on computer hardware components, look at those components in lab, identify them, recognize various ports/interfaces and related cables, etc.	
	4	Understanding browser, Introduction to WWW, efficient use of search engines, awareness about Digital India portals (state and national portals) and college portals.	4	Using Administrative Tools/Control Panel Settings of Operating Systems.	
	5	Advantages of Email, Various email service providers, Creation of email id, sending and receiving emails			
	6	attaching documents with email and drive. Effective use of Gmail, G-Drive, Google Calendar, Google Sites			
	7	Google Sheets, Online mode of communication using Google Meet & WebEx			
	8	Introduction to Programming, Steps involved in problem solving, Definition of Algorithm, Definition of Flowchart			
	9	Steps involved in algorithm development, differentiate algorithm and flowchart, symbols used in flowcharts			
	10	algorithms for simple problems, flowcharts for simple problems			
	11	Practice logic building using flowchart/algorithms			

12	Office Tools like LibreOffice/OpenOffice/MSOffice.	
13	OpenOffice Writer – Typesetting Text and Basic Formatting, Inserting Images, Hyperlinks, Bookmarks, Tables and Table Properties in Writer Introducing LibreOffice/OpenOffice Calc	
14	Working with Cells, Sheets, data, tables, using formulae and functions, using charts and graphics.	
15	OpenOffice Impress – Creating and Viewing Presentations	
16	Inserting Pictures and Tables, Slide Master and Slide Design, Custom Animation.	
17	Introduction to Digital Marketing – Why Digital Marketing, Characteristics of Digital Marketing, Tools for Digital Marketing,	
18	Effective use of Social Media like LinkedIn, Google+, Facebook, Twitter, etc.: Features of Social media	
19	Advantages and Disadvantages of Social Media. Revision of important topics	
20	Class test	

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	6	Energy stored in capacitor, Charging and discharging of a capacitor.	5	using colour coding method.	
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18	UNIT III Electrostatics & Magneto statics	9	series and parallel.
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19	Concept of magnetism, Magnetic field, Magnetic lines of force	10	PRACTICAL-5 Verification of laws of capacitors in
20	Definition of Electromagnetism,		series and parallel.
 21	Magnetic effect of electric current, direction of magnetic field and current.	11	PRACTICAL-6 To verify ohm's law by drawing a graph
			between voltage and current
22	Current carrying conductors in a magnetic field and methods to find its direction, applications		
23	Analogy between electric and magnetic circuit.		
39	Introduction to maintenance free batteries.	20	PRACTICAL-10
40	Disposal of batteries	20	To find the ratio of inductance of a coil having air-core and iron-core respectively and to observe the effect of introduction of a magnetic core on coil inductance.
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