

Sample lesson plan

Year 2015-16 Sub – Electrical & Electronics Measurement

LESSON PLAN

Department Electrical Class SE
 Subject EEM Sem III Lect/Week 4

Lec. No.	Topics to be covered	Planned Date			Date of Actual coverage		
		Div.	Div.	Div.	Div.	Div.	Div.
01	1. Introduction to Measurement – (Analog Instruments)		20/7/15			20/7/15	
02	Errors in measurement.		22/7/15			22/7/15	
03	difference bet ⁿ indicating & integrating instrument		23/7/15			23/7/15	
04	Moving coil & moving iron voltmeter & Ammeters		24/7/15			24/7/15	
05	Extension ranges by using shunt multiplier instrument transformer.		27/7/15			27/7/15	
06	Dynamometer type wattmeter & power factor meter.		29/7/15			28/7/15	
07	Reed moving coil type frequency meter.		30/7/15			29/7/15	
08	Weston-type synchroscope		31/7/15			30/7/15	
09	Dc permanent magnet moving coil type galvanometers.		31/8/15			31/8/15	
10.	Ballistic galvanometer		5/8/15			3/8/15	
11.	Ac vibration galvanometer.		6/8/15				
12.	Revision of 1 st chapter.		7/8/15			5/8/15	
13	Methods of measurement significance		10/8/15			6/8/15	
02.	Principle of Digital Instrument.		10/8/15			11/8/15	

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LESSON PLAN

Department Electrical Class BE
 Subject EEM Sem III Lect/Week 4

Lec. No.	Topics to be covered	Planned Date			Date of Actual coverage		
		Div.	Div.	Div.	Div.	Div.	Div.
01	Introduction to digital instrument.		12/8/15		12/8/15		
02	Advantages of digital meters over analog meters.		13/8/15		13/8/15		
03	Resolution & sensitivity of digital meters.		14/8/15		14/8/15		
04	Working principle of digital voltmeter, Ammeter.		17/8/15		14/8/15		
05	Frequency meter		19/8/15		17/8/15		
06	Phase meter		20/8/15		20/8/15		
07	Energy meter.		21/8/15		21/8/15		
08	Tachometer.		24/8/15		22/8/15		
09	Multimeter.		26/8/15		24/8/15		
10	Revision of second chapter.						
03.	Measurement of Resistance						
01	Introduction						
02	Wheatstone's Bridge		27/8/15		26/8/15		
03	Kelvin's double bridge		28/8/15		27/8/15		
04	Megger.		31/8/15		28/8/15		
05	Revision of 3rd chapter.						
04.	Measurement of Inductance & capacitance.						
01	Maxwell's inductance Bridge		2/9/15		2/9/15		
			2/9/15		4/9/15		

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LESSON PLAN

Department Electrical Class SE
 Subject EEM Sem _____ Lect/Week 04

Lec. No.	Topics to be covered	Planned Date			Date of Actual coverage		
		Div.	Div.	Div.	Div.	Div.	Div.
02	Maxwell's inductance & capacitance bridge.	9/9/15		9/9/15			
03	Hay's Bridge	4/9/15		7/9/15			
04	Anderson's bridge	7/9/15		7/9/15			
05	Desaugthy's Bridge	9/9/15					
06	Schering Bridge, Q meter.	10/9/15		10/9/15			
05.	Potentiometer.						
01	Working principle of Crompton's types & its	11/9/15		10/9/15			
02	Application	14/9/15		13/9/15			
03	Calibration of voltmeter	16/9/15		13/9/15			
04	ammeter & Wattmeter	18/9/15		14/9/15			
06.	Transducer.						
01	Electrical transducer active & passive transducer.	21/9/15		19/9/15			
02.	Resistive transducer Potentiometer, Resistance Pressure transducer	23/9/15		21/9/15			
03.	Resistive Position transducer	24/9/15		23/9/15			
04	Temp. transducer	25/9/15		25/9/15			
05	Resistance Thermometer, Thermistor, Thermocouple	28/9/15		28/9/15			
06	RTD	30/9/15		30/9/15			
07	Inductive Transducer	1/10/15		1/10/15			

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