PNS SCHOOL OF ENGINEERING AND TECHNOLOGY					
LESSON PLAN					
Branch-ETC		Name of the Teaching faculty:			
ENGINEERING	Semester-3rd		ER.AMARENDRA SAHOO		
Subject-	No of days per		SEMESTER-FROM DATE-01.08.23-30.11.23		
ELECTRONICS	week				
MEASUREMENT &	Class Alloted-0 5				
Week		UNIT			
	1ST		UNIT-1;Introduction of measurement and mearuring		
	2ND		The static characteristics of measurement		
1st Week	3RD	UNIT-1	Accuracy ,sensitivity,reproducibility		
	41H	QUALITIES OF MEASUREMENT			
	51H		Static error of instrument		
	151		Dynamic characteristics & its type		
			Revision of chapter -1		
			Pacie principles of motor movement		
and Wook			Basic principles of meter movement		
	1ST		Advantages of PMMC & Disadvantages of PMMC		
	2ND		Operation of Moving Iron Instrument		
	3RD		Revision /class test		
	4TH		Basic principle of operation of DC Ammeter		
3rd Week	5TH		Multi range DC Ammeter		
	1ST		Basic princeple of AC Ammeter		
	2ND	UNIT 2-	Multi range DC Ammeter		
	3RD	Introduction to	Basic principle of operation of AC Ammeter		
	4TH	Indicator & Display	multi range AC Ammeter		
4th Week	5TH	devices &	multi range AC Ammeter		
	1ST	its type	Application of DC volt meter		
	2ND		Basic principle of operation of AC volt meter		
	3RD		Application of AC volt meter		
	4TH		Basic principle of OHM meter series type		
6th Week.	5TH		Basic principle of OHM meter shunt type		
	1ST		Basic principle of Analog Multimeter		
	2ND		Types of Analog mulimeter & its type		
	3RD		operation of Q meter & its requirement		
	4TH		Revision/Assignment/class test		
7th Week	51H		UNIT-3: DIGITAL INSTRUMENTS		
			Applications KAIVIP type digital Volt Meter		
	2ND		Operation of display 3 1/2,4 1/2 Digital Multimeter		
			Description of working of Digital Measurement of time		
8th Wook			Measurement of Frequency		
OUT WEEK	1ST		Principle of operation of working of Digital Tachometer		
	2ND		Princeple of operation of working of Automation in Digital		
			Block diagram of I CR meter & its working principle		
	4TH		Revision/Assignment/class test		
9th Week	5TH		UNIT-4:OSCILLOSCOPE		
	1ST		Dual trace oscilloscope & its specification		
	2ND	UNIT-	Measurements by CRO.Lissaious figures		
	3RD	4:OSCILLOSCOPE	Application of CRO(Voltage ,period & frequency		
	4TH	1	Operation ofv Digital Storage Oscilloscope & high		

10th Week	5TH		Revision/Assignment/class test
11th Week	1ST		UNIT-5:BRIDGES
	2ND	UNIT-5: BRIDGES	DC Bridges (wheatstone'S bridge)measurement of
	3RD		AC Bridges (Mearurement of inductance by maxwell's
	4TH		Hay's Bridge)
	5TH		measurement of capacitance by Schering'sbridge
	1ST		DeSauty Bridge
	2ND		Working principle of Q meter its circuit diagram &
	3RD		measurements of frequency,LCR Meter & its
	4TH		Revision/Assignment/class test
12th Week	5TH		UNIT-6: TRANSDUCERS & SENSORS
	1ST		Working principle of Strain Gauges, defination of strain
	2ND		Working principle of LVDT
	3RD		Working principle of capacitive transducers-pressure
	4TH		Working principle of Tempreture Transducer-RTD
	5TH	& JENJORJ	Optical Pyrometer, thermocouple, Thermister
	1ST		Working principle of current transducer and KW
	2ND		Revision/Assignment/class test
	3RD		UNIT-7:SIGNAL GENERATOR & WAVE ANALYSER
	4TH		Working principle of AF sine
13th Week	5TH	UNIT-7:	Working principle of squre wave generator
	1ST	SIGNAL	Working principle of Function Generator
	2ND	GENERATOR	function of basic Wave analyser
	3RD	&	function of basic Spectrum Analyser
	4TH	WAVE ANALYSER	Basic concept of Data Acquisition System
14th Week	5TH		Revision/Assignment/class test
Sign.of the H.O.D.			Sign.of the FACULTY

RE