UTKALMANI GOPABANDHU INSTITUTE OF

ENGINEERING,ROURKELA

LESSON PLAN

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

LESSON PLAN

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT CODE: Th.4

NAME: ANALOG ELECTRONICS & LINEAR IC

 BRANCH: ELECTRONICS & TELECOMMUNICATION

SEMESTER: DIPLOMA -I V

PERIODS PER WEEK: 5

NAME OF THE FACULTY: MANINI MONALISA PRADHAN

Week/Date	Lecture	Topic to be covered	Remarks
1st week 14/03/2022 TO 21/03/2022	1st	Working Principle of diode and current Equation	18/03/2022-19/03/2022 Holiday so class will be adjusted in next week
	2nd	Specifications and use of PN junction diode	
	3rd	Breakdown of diode	
	4th	Construction of diode	
	5th	Working of diode	
2nd week 21/03/2022 TO 26/03/2022	1st	Characteristic of diode	
	2nd	Classification of rectifier	
	3rd	Half wave rectifier and Full wave rectifier	
	4th	Working of n-p-n transistor	
	5th	Working of p-n-p transistor	
3rd week 28/03/2022 TO 02/04/2022	1st	Define alpha ,beta ,gamma of transistor	01/04/2022 Holiday One more class required
	2nd	Load line analysis ,Q- point	
	3rd	Types of coupling	
	4th	Working of RC coupled amplifier	
	5th	Classification of power amplifier ,differentiate between voltage and power amplifier	

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Week/Date	Lecture	Topic to be covered	Remarks
4th week 04/04/2022 TO 09/04/2022	1st	Working Principle of power amplifier Class A	
	2nd	Working of Class AB	
	3rd	Working of Class B	
	4th	Working of Class C	
	5th	Working of Class D	
5th week 11/04/2022 TO 16/04/2022	1st	Construction of Push Pull amplifier	14/04/2022 - 15/04/2022 Holiday so more 2 classes are needed
	2nd	Working of Push Pull amplifier	
	3rd	Differentiate JFET and BJT	
	4th	Construction of JFET	
	5th	JFET as an amplifier	
6th week 18/04/2022 TO 23/04/2022	1st	Relationship among JFET parameters	
	2nd	JFET parameters continue	
	3rd	Construction of MOSFET	
	4th	Construction of MOSFET continue	
	5th	Working of MOSFET	
7th week 25/04/202 TO 30/04/2022	1st	Classification of MOSFET	
	2nd	Characteristics of MOSFET	
	3rd	Operation of CMOS	

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	4th	Operation of VMOS	
	5th	Operation of LD MOS	
8th week 02/05/2022 TO 07/05/2022	1st	Define and classified feedback amplifier	303/05/2022 (Holiday) more extra class required
	2nd	Types of feedback	
	3rd	Types of negative feedback	
	4th	Voltage shunt and voltage series	
	5th	Current shunt and current series all parameters	
9th week 09/05/2022 TO 14/05/2022	1st	Oscillator	
	2nd	Barkhausen criteria	
	3rd	RC phase shift oscillator	
	4th	LC oscillator	
	5th	Colplit , Hartley oscillator	
10th week 16/05/2022 TO 21/05/2022	1st	Weinbridge oscillator	16/05/2022 Holiday one more extra class required
	2nd	Equation for frequency oscillation and oscillation	
	3rd	Define and classified Tuned amplifier	
	4th	Parallel resonance circuit	

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Week/Date	Lecture	Topic to be covered	Remarks
	5th	Resonance curve and sharpness of Resonance	
11th week 23/05/2022 TO 28/05/2022	1st	Working of double Tuned amplifier	
	2nd	Clipper circuit introduction	
	3rd	Clipper circuit with diode series and shunt	
	4th	Positive and negative biased clipper	
	5th	Combinational clipper circuit and its application	
12th week 30/05/2022 TO 04/06/2022	1st	Positive clamper circuit and its application	30/05/2022 Holiday one more extra class required
	2nd	Astable multivibrator,monostable multivariator	
	3rd	Bistable multivibrator	
	4th	Working of integrator and differentiatior	
	5th	Differential amplifier and configuration	
13th week 06/06/2022 TO 10/06/2022	1st	Op-Amp,it's equivalent circuit, symbol	
	2nd	Manufacturer designation of IC,pin identification	
	3rd	Offset voltage,input offset current,CMRR,Slew Rate	
	4th	Inverting non inverting amplifier	

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	5th	Series feedback device,close loop gain	
14th week	1st	Summing, inverting, non-inverting amplifier	Need extra class
	2nd	DC and Ac amplifier using op amp	
10/06/2022 TO Onward	3rd	Active filters,lowpass, Butterworth filter, zero crossing detectors	
	4th	IC 555,IC 565	
	5th	Operation of 78xx,79xx,LM 317	