Discipline : ELECTRICAL ENGG.	Semester: 4th Sem	T. POLYTECHNIC NAYAGARH LESSON PLAN Name of the Teaching Faculty: Jadunath Murmu(Sr. Lect, in ETC)
Subject : A.E.C&OPMP	No. of Days / per week class	Semester From date : 10.03.2022 To Date : 10.06.2022
	allotted : 04	
Week	Class Day	Topics
2ND MARCH from dt.10.3.22 to dt.12.3.22	1st	1 . 1 P-N Junction Diode 1 . 2 Working of Diode
	2nd	1.3 V-I characteristic of PN Junction Diode.
3ND MARCH from dt.14.3.22 to dt.19.3.22	1st	1 . 4 DC load line 1 . 5 Important terms such as Ideal Diode, Knee voltage 1 . 6 Junctions break down. 1.6.1 Zener breakdown 1.6.2 Avalanche breakdown
	2nd	1.7 P-N Diode clipping Circuit.
	3rd	1 . 8 P-N Diode clamping Circuit
	4th	REVISION
4th MARCH from dt.21.3.22 to dt.26.3.22	1st	2 . 1 Thermistors, Sensors & barretters
	2nd	2 . 2 Zener Diode
	3rd	2 . 3 Tunnel Diode
	4th	2 . 4 PIN Diode
	1st	3.1 Classification of rectifiers
5th MARCH from dt.28.3.22 to dt.31.3.22	2nd	3.2 Analysis of half wave, calculate: 3.2.1 DC output current and voltage, 3.2.2 RMS output current and voltage,
	3rd	3.2.3 Rectifier efficiency 3.2.4 Ripple factor, 3.2.5 Regulation, 3.2.6 Transformer utilization factor 3.2.7 Peak inverse voltage
	4th	full wave centre tapped 3.2.1 DC output current and voltage 3.2.2 RMS output current and voltage
1ST APRIL from dt.02.4.22 to dt.02.4.22	1st	3.2.3 Rectifier efficiency 3.2.4 Ripple factor ,3.2.5 Regulation, 3.2.6 Transformer utilization factor 3.2.7 Peak inverse voltage
2nd APRIL from dt.04.4.22 to dt.09.4.22	1st	Analysis Bridge rectifiers 3.2.1 DC output current and voltage, 3.2.2 RMS output current and voltage, 3.2.3 Rectifier efficiency 3.2.4 Ripple factor, 3.2.5 Regulation, 3.2.6 Transformer utilization factor, 3.2.7 Peak inverse voltage
	2nd	3.3 Filters:
	3rd	TRANSISTORS: 4.1 Principle of Bipolar junction transistor
	4th	4.2 Different modes of operation of transistor 4.3 Current components in a transistor
	1st	4.4 Transistor as an amplifier
	2nd	4.5 Transistor circuit configuration & its characteristics
3rd APRII	Lind	14.5.1 CB Configuratio
3rd APRIL from dt.11.4.22 to dt.16.4.22		4.5.1 CB Configuratio
	3rd 4th	4.5.1 CB Configuratio .5.2 CE Configuration 4.5.3 CC Configuration
	3rd 4th	.5.2 CE Configuration 4.5.3 CC Configuration
from dt.11.4.22 to dt.16.4.22	3rd	.5.2 CE Configuration
	3rd 4th 1st	.5.2 CE Configuration 4.5.3 CC Configuration REVISION 5.1 Transistor biasing 5.2 Stabilization
from dt.11.4.22 to dt.16.4.22 4th APRIL	3rd 4th 1st 2nd 3rd	.5.2 CE Configuration 4.5.3 CC Configuration REVISION 5.1 Transistor biasing 5.2 Stabilization 5.3 Stability factor
from dt.11.4.22 to dt.16.4.22 4th APRIL	3rd 4th 1st 2nd 3rd 4th	.5.2 CE Configuration 4.5.3 CC Configuration REVISION 5.1 Transistor biasing 5.2 Stabilization 5.3 Stability factor 5.4 Different method of Transistors Biasing
4th APRIL from dt.18.4.22 to dt.23.4.22	3rd 4th 1st 2nd 3rd 4th	.5.2 CE Configuration 4.5.3 CC Configuration REVISION 5.1 Transistor biasing 5.2 Stabilization 5.3 Stability factor 5.4 Different method of Transistors Biasing 5.4.1 Base resistor method
from dt.11.4.22 to dt.16.4.22 4th APRIL	3rd 4th 1st 2nd 3rd 4th	.5.2 CE Configuration 4.5.3 CC Configuration REVISION 5.1 Transistor biasing 5.2 Stabilization 5.3 Stability factor 5.4 Different method of Transistors Biasing

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1st MAY	1st	CARL STREET, S
from dt.02.5.22 to dt.07.5.22	2nd	6.1 Practical circuit of transistor amplifier
	3rd	1912 DC 1040 line and DC equipplest of
	4th	6.4 Calculation of gain 6.5 Phase reversal
2nd MAY from dt.09.5.22 to dt.14.5.22	401	10.6 H-parameters of transistors 6.7 St. 115
	1st	6.8 Generalised approximate model
		O.5 Analysis of CB. CF. CC amplificant
		6.10 Multi stage transistor amplifier
	2nd	6.10.1 R.C. coupled amplifier
		6.10.2 Transformer coupled amplifier
	3rd	.11 Feed back in amplifier
		6.11.1 General theory of feed back
		6.11.2 Negative feedback circuit
		6.11.3 Advantage of accept
	4th	6.11.3 Advantage of negative feed back
		6.12 Power amplifier and its classification
The second secon		10.12.1 Difference between voltage and life
	1st	
		6.13.1 Types of oscillators
3rd MAY		6.13.2 Essentials of transistor oscillator
from dt.16.5.22 to dt.21.5.22	2nd	6.13.3 Principle of operation of tuned collector
	3rd	nartiey, colpitt,
	4th	phase shift, wein bridge oscillator (no mathematical derivations)
4th MAY	1st	7.1 Classification of FET
		7.2 Advantages of FET over BJT
		7.3 Principle of operation of BJT
	2nd	7.4 FET parameters (
from dt.23.5.22 to dt.28.5.22		7.4 FET parameters (no mathematical derivation) 7.4.1 DC drain resistance
	3rd 4th	7.4.2 AC drain resistance
		7.4.3 Trans-conductance
5th MAY	1st	7.5 Biasing of FET
	151	8.1 General circuit simple of OP-AMP and IC – CA – 741 OP AMP
	1st	one operational amplifier stages
1st june		8.3 Equivalent circuit of operational amplifier
from dt.01.6.22 to dt.3.6.22	2nd	8.4 Open loop OP-AMP configuration
		8.5 OPAMP with fed back
	3rd	8.6 Inverting OP-AMP
	1st	8.7 Non inverting OP-AMP
		8.8 Voltage follower & buffer
	2nd	8.9 Differential amplifier
2ND JUNE		8.9.1 Adder or summing amplifier
from dt.06.6.22 to dt.10.6.22		8.9.2 Sub tractor
		8.9.3 Integrator
	3rd	8.9.4 Differentiator
		8.9.5 Comparato
	4th	REVISION

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