ACADEMIC LESSON PLAN OF WINTER 2023

Discipline Electronics	Semester: 3rd	Name of the Teaching Faculty: - RAKESH PATTANAYAK & SANGEETA KUMARI PATRO	
Subject: - Circuit Theory Lab	No of Days/per Week Class Allotted: 2p/week	Semester From: -1st Aug 2023 to 30th Nov 2023 No of Weeks: -17 weeks	
Week	Class Day	Practical Topics	
1ST	1st	1. Measurement of Resistance, Voltage, Current in A.C & D. C. Circuit by using digital Multimeter & Clamp meter(Contd….)	
	2nd	1. Measurement of Resistance, Voltage, Current in A.C & D. C. Circuit by using digital Multimeter & Clamp meter	
2ND	1st	2. Verification of (a) Super positions Theorem (Contd….)	
	2nd	2. Verification of (a) Super positions Theorem	
3RD	1st	2. Verification of (b) Thevenin's Theorem(Contd….)	
	2nd	2. Verification of (b) Thevenin's Theorem	
4TH	1st	2. Verification of (c) Norton's Theorem(Contd….)	
	2nd	2. Verification of (c) Norton's Theorem	
5TH	1st	2. Verification of (d) Milliman's Theorem	
	2nd	2. Verification of (e) Maximum power theorem	
6TH	1st	3. Determine resonant frequency of series R-L, R-C, R-L-C circuit and study the quality factor and bandwidth(Contd….)	
	2nd	3. Determine resonant frequency of series R-L, R-C, R-L-C circuit and study the quality factor and bandwidth	
7TH	1st	4. Determine the resonant frequency , Q factor & Band width of parallel resonant circuit.(Contd….)	
	2nd	4. Determine the resonant frequency , Q factor & Band width of parallel resonant circuit.	
8TH	1st	5. Determine the time constant of R-L-C circuit and analysis the transient response (rise time, overshoot, and damping factor from the oscilloscope)(Contd….)	
	2nd	5. Determine the time constant of R-L-C circuit and analysis the transient response (rise time, overshoot, and damping factor from the oscilloscope)	
9TH	1st	6. Study of Low Pass filter and determination of cut-off frequency.	
	2nd	7. Study of High Pass filter and determination of cut-off frequency.	
10TH	1st	8. Study of Band pass Filter and Band Elimination Filter and determination of its cut-off frequency.	
	2nd	9. Determination of Parameters of Two Port Network (T & Y)(Contd….)	
11TH	1st	9. Determination of Parameters of Two Port Network (T & Y)(Contd….)	
	2nd	10. Design attenuator circuit (pie or T)(Contd….)	
12TH	1st	10. Design attenuator circuit (pie or T)(Contd….)	
	2nd	11. Mini Project using P-SPICE software: To collect data of catalogues and specification sheet of all the equipment &components used for performing experiment and submit the project on P-SPICE software into Analysis and Plot the graph of each measurement at the end of semester e.g. Butter	

		Worth Filter(Contd….)
13TH	1st	11. Mini Project using P-SPICE software: To collect data of catalogues and specification sheet of all the equipment &components used for performing experiment and submit the project on P-SPICE software into Analysis and Plot the graph of each measurement at the end of semester e.g. Butter Worth Filter (Contd…)
	2nd	11. Mini Project using P-SPICE software: To collect data of catalogues and specification sheet of all the equipment &components used for performing experiment and submit the project on P-SPICE software into Analysis and Plot the graph of each measurement at the end of semester e.g. Butter Worth Filter
14TH	1st	11. Mini Project using P-SPICE software: To collect data of catalogues and specification sheet of all the equipment &components used for performing experiment and submit the project on P-SPICE software into Analysis and Plot the graph of each measurement at the end of semester e.g. Butter Worth Filter(Contd….)
	2nd	11. Mini Project using P-SPICE software: To collect data of catalogues and specification sheet of all the equipment &components used for performing experiment and submit the project on P-SPICE software into Analysis and Plot the graph of each measurement at the end of semester e.g. Butter Worth Filter(Contd….)
15TH	1st	Rivision class
	2nd	
16TH	1st	Rivision class
	2nd	Rivision class
17TH	1st	Rivision class
	2nd	Rivision class

Rakesh Kumar pattanayak

Signature of Teaching Faculty