ACADEMIC LESSON PLAN OF WINTER 2021

Discipline Electronics and Telecommunication	Semester: 3rd	Name of the Teaching Faculty: - Sigma Ray and Itishree Bal	
Subject: - Circuit Theory Lab	No of Days/per Week Class Allotted: 2p/week	Semester From: -1st Oct 2021 To: 8th Jan 2022 No of Weeks: -14 weeks	
Week	Class Day	Practical Topics	
1st/1 Oct- 2 Oct	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/ 4 Oct – 9 Oct	1st	2. Verification of (a) Super positions Theorem (Contd….)	
	2nd	2. Verification of (a) Super positions Theorem	
3rd/ 18 Oct - 23 Oct	1st	2. Verification of (b) Thevenin's Theorem(Contd….)	
	2nd	2. Verification of (b) Thevenin's Theorem	
4th/ 25 Oct – 30 Oct	1st	2. Verification of (c) Norton's Theorem(Contd….)	
	2nd	2. Verification of (c) Norton's Theorem	
5th/1 Nov – 6 Nov	1st	2. Verification of (d) Milliman's Theorem	
	2nd	2. Verification of (e) Maximum power theorem	
6th/ 8 Nov – 13 Nov	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/ 15 Nov- 20 Nov	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/ 22 Nov -27 Nov	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/ 29 Nov- 4 Dec	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/ 6 Dec- 11 Dec	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/ 13 Dec- 18 Dec	1st	9. Determination of Parameters of Two Port Network (T & Y)(Contd….)	
	2nd	10. Design attenuator circuit (pie or T)(Contd….)	
12th/ 20 Dec – 25 Dec	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/ 27 Dec-1 Jan	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…)
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14th/ 3 Jan- 8 Jan	1st	
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Signature of Teaching Faculty