

ACADEMIC LESSON PLAN OF SUMMER 2021

Discipline Electronics	Semester: 3 rd	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: -1 st Oct 2021 To: 8 th Jan 2022 No of Weeks: -14 weeks
Week	Class Day	Practical Topics
1 st /1 Oct- 2 Oct	1 st	1. Measurement of Resistance, Voltage, Current in A.C & D. C. Circuit by using digital Multimeter & Clamp meter(Contd....)
	2 nd	1. Measurement of Resistance, Voltage, Current in A.C & D. C. Circuit by using digital Multimeter & Clamp meter
2 nd / 4 Oct – 9 Oct	1 st	2. Verification of (a) Super positions Theorem (Contd....)
	2 nd	2. Verification of (a) Super positions Theorem
3 rd / 18 Oct - 23 Oct	1 st	2. Verification of (b) Thevenin's Theorem(Contd....)
	2 nd	2. Verification of (b) Thevenin's Theorem
4 th / 25 Oct – 30 Oct	1 st	2. Verification of (c) Norton's Theorem(Contd....)
	2 nd	2. Verification of (c) Norton's Theorem
5 th /1 Nov – 6 Nov	1 st	2. Verification of (d) Milliman's Theorem
	2 nd	2. Verification of (e) Maximum power theorem
6 th / 8 Nov – 13 Nov	1 st	3. Determine resonant frequency of series R-L, R-C, R-L-C circuit and study the quality factor and bandwidth(Contd....)
	2 nd	3. Determine resonant frequency of series R-L, R-C, R-L-C circuit and study the quality factor and bandwidth
7 th / 15 Nov- 20 Nov	1 st	4. Determine the resonant frequency , Q factor & Band width of parallel resonant circuit.(Contd....)
	2 nd	4. Determine the resonant frequency , Q factor & Band width of parallel resonant circuit.
8 th / 22 Nov - 27 Nov	1 st	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....)
	2 nd	5. Determine the time constant of R-L-C circuit and analysis the transient response (rise time, overshoot, and damping factor from the oscilloscope)
9 th / 29 Nov- 4 Dec	1 st	6. Study of Low Pass filter and determination of cut-off frequency.
	2 nd	7. Study of High Pass filter and determination of cut-off frequency.
10 th / 6 Dec- 11 Dec	1 st	8. Study of Band pass Filter and Band Elimination Filter and determination of its cut-off frequency.
	2 nd	9. Determination of Parameters of Two Port Network (T & Y)(Contd....)
11 th / 13 Dec- 18 Dec	1 st	9. Determination of Parameters of Two Port Network (T & Y)(Contd....)
	2 nd	10. Design attenuator circuit (pie or T)(Contd....)
12 th / 20 Dec – 25 Dec	1 st	10. Design attenuator circuit (pie or T)(Contd....)
	2 nd	11. Mini Project using P-SPIICE software: To collect data of catalogues and specification sheet of all the equipment & components used for performing experiment and submit the project on P-SPIICE software into Analysis and Plot the graph of each measurement at the end of semester e.g. Butter Worth Filter(Contd....)
13 th / 27 Dec- 1 Jan	1 st	11. Mini Project using P-SPIICE 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...)
	2 nd	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
14 th / 3 Jan- 8 Jan	1 st	
	2 nd	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....)

Signature of Teaching Faculty