ACADEMIC LESSON PLAN OF SUMMER 2021			
Discipline	Semester: 3 rd	Name of the Teaching Faculty: -	
Electrical	Sec-A(Gr-2)	LUCKY RANI BEHURIA & AMITA BASTI	
Subject: -	No of Days/per	Semester From: -1 st Oct 2021 To 8 th Jan 2022	
Circuit	Week Class	No of Weeks: -15 weeks	
Simulation	Allotted:		
Lab	2d(3hr)/week		
Week	Class Day	Practical Topics	
1 st	1 st		
-		1. Measurement of equivalent resistance in series and parallel circuit	
	2 nd	1. Measurement of equivalent resistance in series and parallel circuit	
2 nd	1 st		
		2. Measurement of power and power factor using series R-L-C Load.	
	2 nd	2. Measurement of power and power factor using series R-L-C Load.	
3 rd	1 st	3. Verification of KCL and KVL	
	2 nd	3. Verification of KCL and KVL	
4 th	1 st	4. Verification of Super position theorem	
	2 nd	4. Verification of Super position theorem	
5 th	1 st	5. Verification of Thevenin's Theorem	
	2 nd	5. Verification of Thevenin's Theorem	
6 th	1 st	6. Verification of Norton's Theorem	
	2 nd	6. Verification of Norton's Theorem	
7 th	1 st	7. Verification of Maximum power transfer Theorem	
	2 nd	7. Verification of Maximum power transfer Theorem	
8 th	1 st	8. Determine resonant frequency of series R-L-C circuit.	
	2 nd	8. Determine resonant frequency of series R-L-C circuit.	
9 th	1 st	9. Study of Low pass filter & determination of cut-off frequency	
	2 nd	9. Study of Low pass filter & determination of cut-off frequency	

10 th	1 st	10. Study of High pass filter & determination of cut-off frequency
	2 nd	10. Study of High pass filter & determination of cut-off frequency
11 th	1 st	11. Analyze the charging and discharging of an R-C & R-L circuit with oscilloscope and Compute the time constant from the tabulated data and determine the rise time graphically.
	2 nd	11. Analyze the charging and discharging of an R-C & R-L circuit with oscilloscope and Compute the time constant from the tabulated data and determine the rise time graphically.
12 th	1 st	12. Introduction to P-Spice/MATLAB software.
	2 nd	12. Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms.i. Superposition theorem
13 th	1 st	12. Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms.ii. Series Resonant Circuit
	2 nd	12. Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms.ii. Series Resonant Circuit
14th	1 st	12. Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms iii. Transient Response in R-L-C series circuit
	2 nd	12. Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms iii. Transient Response in R-L-C series circuit
15 th	1 st	12. Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms iii. Transient Response in R-L-C series circuit
	2 nd	12. Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms iii. Transient Response in R-L-C series circuit

Signature of Faculty