Discipline – Electrical Engg	Semester 5th	NAME OF THE TEACHING FACULTY- JYOTIRMAYEE SETHY,SIBANI PANDA, BASUDEV BARICK, ASIT KUMAR SAHOO	
and SUB-circuit simulation LAB	No Of Days Per Week Class Alloted-6	SEMESTER FROM 15/09/2022 TO 22/12/2022	
WEEK	**CLASS DAY**	**PRACTICALS**	**STATUS**
1st WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Safety training and introduction to equipments.	
2nd WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Measurement of equivalent resistance in series and parallel circuit	
3rd WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Measurement of power and power factor using series R-L-C Load.	
4th WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Verification of KCL and KVL.	
5th WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Verification of Super position theorem	
6th WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Verification of Thevenin's Theorem	
7th WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	. Verification of Norton's Theorem	

8th WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Verification of Maximum power transfer Theorem	
9th WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Determine resonant frequency of series R-L-C circuit	
10th WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Study of Low pass filter & determination of cut-off frequency	
11th WEEK	1ST day 2nd day 3rd day 4th day 5th day 6th day	Study of High pass filter & determination of cut-off frequency	
12th week	1ST day 2nd day 3rd day 4th day 5th day 6th day	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.	
13th week	1ST day 2nd day 3rd day 4th day 5th day 6th day	Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms. Superposition theorem	
14th week	1ST day 2nd day 3rd day 4th day 5th day 6th day	Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms Series Resonant Circuit	
15th week	1ST day 2nd day 3rd day 4th day	Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms Transient Response in R-L-C series circuit	