GOVERNMENT POLYTECHNIC BARGARH
DEPARTMENT OF ELECTRICAL ENGINEERING

DISCIPLINE: *EE*	SEMESTER: *3rd*	NAMEOFTHETEACHINGFACULTY: PRITEE P. MINZ, Sr. LECTURER (EE)
SUBJECT: **Circuit and Simulation Lab**		Total Period-90 Lab Period/week- 6 Hrs

WEEK	CLASS DAY	THEORY TOPICS
1	1	Demonstration of Experiment 1,2 and 3
	2	Demonstration of Experiment 4,5 and 6
2	3	Measurement of equivalent resistance in series and parallel circuit
	4	Verification of KCL and KVL
3	5	Verification of Super position theorem
	6	Verification of Thevenin's Theorem
4	7	Verification of Norton's Theorem
	8	Verification of Maximum power transfer Theorem
5	9	Comprehensive Viva-Voce
	10	Demonstration of Experiment 5 and 6
6	11	Demonstration of Experiment 7
	12	Demonstration of Experiment 8 and 9
7	13	Measurement of power and power factor using series R-L-C Load.
	14	Determine resonant frequency of series R-L-C circuit.
8	15	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.
	16	Study of Low pass filter & determination of cut-off frequency
9	17	Study of High pass filter & determination of cut-off frequency
	18	Comprehensive Viva-Voce
10	19	Introduction to P-Spice/MATLAB software
	20	Demonstration to design various circuit by using P-Spice/MATLAB software
11	21	Construct the Superposition theorem circuits using P-Spice/MATLAB software and compare the measurements and waveforms.
	22	Construct the Series Resonant circuits using P-Spice/MATLAB software and compare the measurements and waveforms.
12	23	Construct the Transient Response in R-L-C series circuits using P-Spice/MATLAB software and compare the measurements and waveforms.
	24	Remedial classes and Virtual Lab
13	25	Remedial classes and Virtual Lab
	26	Remedial classes and Virtual Lab
14	27	Comprehensive Viva-Voce
	28	Comprehensive Viva-Voce
15	29	Comprehensive Viva-Voce
	30	Sessional Exam & Record submission