

DISCIPLINE: ELECTRICAL ENGINEERING		SEMESTER: 3RD	NAME OF THE TEACHING FACULTY: RAJIV RATAN PATEL
SUBJECT: CIRCUIT AND SIMULATION LAB		NO OF DAYS/PER WEEK CLASS ALLOTTED:	SEMESTER FROM DATE: 01/08/2023 TO DATE:30/11/2023 NO OF WEEKS:15
WEEK	CLASS DAY	PRACTICAL TOPICS	
WEEK 1ST	1ST,2ND,3RD	Measurement of equivalent resistance in series and parallel circuit	
	4TH,5TH,6TH	Measurement of power and power factor using series R-L-C Load	
WEEK 2ND	1ST,2ND,3RD	Measurement of power and power factor using series R-L-C Load	
	4TH,5TH,6TH	Verification of KCL and KVL	
WEEK 3RD	1ST,2ND,3RD	REVISION	
	4TH,5TH,6TH	Verification of Super position theorem	
WEEK 4TH	1ST,2ND,3RD	Verification of Thevenin's Theorem	
	4TH,5TH,6TH	REVISION	
WEEK 5TH	1ST,2ND,3RD	REVISION	
	4TH,5TH,6TH	Verification of Norton's Theorem	
WEEK 6TH	1ST,2ND,3RD	REVISION	
	4TH,5TH,6TH	Verification of Maximum power transfer Theorem	
WEEK 7TH	1ST,2ND,3RD	Determine resonant frequency of series R-L-C circuit.	
	4TH,5TH,6TH	REVISION	
WEEK 8TH	1ST,2ND,3RD	REVISION	
	4TH,5TH,6TH	REVISION	
WEEK 9TH	1ST,2ND,3RD	Study of Low pass filter & determination of cut-off frequency	
	4TH,5TH,6TH	Study of Low pass filter & determination of cut-off frequency	
WEEK 10TH	1ST,2ND,3RD	Study of High pass filter & determination of cut-off frequency	
	4TH,5TH,6TH	Study of High pass filter & determination of cut-off frequency	
WEEK 11TH	1ST,2ND,3RD	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	
	4TH,5TH,6TH	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	
WEEK 12TH	1ST,2ND,3RD	Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms. 1.Superposition theorem	
	4TH,5TH,6TH	Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms.	
WEEK 13TH	1ST,2ND,3RD	REVISION	
	4TH,5TH,6TH	REVISION	
WEEK 14TH	1ST,2ND,3RD	REVISION	
	4TH,5TH,6TH	REVISION	
WEEK 15TH	1ST,2ND,3RD	REVISION	
	4TH,5TH,6TH	REVISION	

R. K. S. 01/04/23

G. K. S. 01/04/23