GOVERNMENT POLYTECHNIC NUAPADA

LESSON PLAN

DISCIPLINE : ELECTRICAL ENGINEERING	SEMESTER : 3RD SEM	NAME OF TEACHING FACULTY : ER. MUKESH KUMAR SAHU
SUBJECT : PR-2: CIRCUIT AND SIMULATION LAB	NO. OF DAYS /PER WEEK CLASS ALLOTMENT: 6P/WEEK	SEMESTER FROM Dt : 01/08/23 TO Dt: 30/11/23 NO OF WEEKS : 17

Sl. No	MONTH/ WEEK AUG, SEP, OCT,NOV, DEC	CLASS DAY	DATE	THEORY / PRACTICAL TOPICS	Period Distribution
1	1ST	01	01/08/23	Measurement of equivalent resistance in series and parallel circuit	3
2	2ND	01	07/08/23	Measurement of equivalent resistance in series and parallel circuit	3
3		02	08/08/23	Verification of KCL and KVL	3
4	3RD	01	14/08/23	Verification of KCL and KVL	3
5	4TH	01	21/08/23	Verification of super position theorem	3
6		02	22/08/23	Verification of super position theorem	3
7	5TH	01	28/08/23	Verification of Thevenin's theorem	3
8		02	29/08/23	Verification of Thevenin's theorem	3
9	6TH	01	04/09/23	Verification of Norton's theorem	3
10		02	05/09/23	Verification of Norton's theorem	3
11	7TH	01	11/09/23	Verification of Maximum power transfer theorem	3
12		02	12/09/23	Verification of Maximum power transfer theorem	3
13	8TH	01	18/09/23	Measurement of power and power factor using series R-L-C load	3
14	9TH	01	25/09/23	Measurement of power and power factor using series R-L-C load	3
15		02	26/09/23	Determine resonant frequency of series R-L-C circuit	3
16	10TH	01	03/10/23	Determine resonant frequency of series R-L-C circuit	3
17	11TH	01	09/10/23	Study of Low-pass filter and determination of cut-off frequency	3
18		02	10/10/23	Study of Low-pass filter and determination of cut-off frequency	3
19	12TH	01	16/10/23	Study of High-pass filter and determination of cut-off frequency	3
20		02	17/10/23	Study of High-pass filter and determination of cut-off frequency	3
21	13TH	01	30/10/23	Analysing the charging. And discharging of an R-C and R-L circuit with oscilloscope and compute the time constant from the tabulated data and determine the rise time graphically.	3
22		02	31/10/23	Analysing the charging. And discharging of an R-C and R-L circuit with oscilloscope and compute the time constant from the tabulated data and determine the rise time graphically.	3
23	14TH	01	06/11/23	Analysing the charging. And discharging of an R-C and R-L circuit with oscilloscope and compute the time constant from the tabulated data and determine the rise time graphically.	3
24		02	07/11/23	Analysing the charging. And discharging of an R-C and R-L circuit with oscilloscope and compute the time constant from the tabulated data and determine the rise time graphically.	3
25	15TH	01	13/11/23	Construct the following circuit using p-spice/MATLAB software and compare the measurements and waveforms (I) Superposition theorem (II) Series resonant circuit (III) Transient response in R-L-C series circuit	3
26		02	14/11/23	Construct the following circuit using p-spice/MATLAB software and compare the measurements and waveforms (I) Superposition theorem (II) Series resonant circuit (III) Transient response in R-L-C series circuit	3
27	16TH	01	20/11/23	Construct the following circuit using p-spice/MATLAB software and compare the measurements and waveforms (I) Superposition theorem (II) Series resonant circuit (III) Transient response in R-L-C series circuit	3
28		02	21/11/23	Construct the following circuit using p-spice/MATLAB software and compare the measurements and waveforms (I) Superposition theorem (II) Series resonant circuit (III) Transient response in R-L-C series circuit	3
29	17TH	01	28/11/23	Construct the following circuit using p-spice/MATLAB software and compare the measurements and waveforms (I) Superposition theorem (II) Series resonant circuit (III) Transient response in R-L-C series circuit	3

31/07/23
Signature of Faculty

31/07/2023
Signature of H.O.D.

31.07.23
Signature of A.C.

31/07/23
PRINCIPAL
GP NUAPADA