LESSON PLAN

SUB:- CIRCUIT & SIMULATION LAB BRANCH:- ELECTRICAL ENGG.

SEMESTER:3rd

NAME OF FACULTY: - ASHWINI KUMAR SAHU





GOVERNMENT POLYTECHNIC, BHADRAK

SESSION:2024-25

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G.P.BHADRA

Academic Co-ordinator

Academic Co-ordinator

Principal Govt. Polytechnic Bhadrak

Principal Govt.Polytechnic

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Verification of Thevenin's Theorem	Verification of Super position theorem	Cilication of NCL and KVL	rification of RCI and RVI	Verification of KCL and KVI	Verification of KCL and KVL	Verification of KCL and KVL	Measurement of power and power factor using series R-L-C Load.	Measurement of power and power factor using series R-L-C Load.	Measurement of power and power factor using series R-L-C Load.	Measurement of power and power factor using series R-L-C Load.	Measurement of equivalent resistance in series and parallel circuit	Measurement of equivalent resistance in series and parallel circuit	Measurement of equivalent resistance in series and parallel circuit	Measurement of equivalent resistance in series and parallel circuit	PRACTICAL TOPICS	SEMESTER FROM DATE 01.07.2024 to 08.11.2024	ASHWINI KUMAR SAHU (Sr.Lect. in Elect. Engg.)	NAME OF THE TEACHING			

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frequency	Study of High pass filter & determination of	Study of High pass filter & determination of cut-off frequency	Study of High pass filter & determination of cut-off frequency	Study of High pass filter & determination of cut-off frequency	Study of Low pass filter & determination of cut-off frequency	Study of Low pass filter & determination of cut-off frequency	Study of Low pass filter & determination of cut-off frequency	Study of Low pass filter & determination of cut-off frequency	Determine resonant frequency of series R-L-C circuit	Verification of Maximum power transfer Theorem	Verification of Norton's Theorem	Verification of Thevenin's Theorem	Verification of Thevenin's Theorem	Verification of Thevenin's Theorem									

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Spice/MATLAB software and compare the	Construct the following circuits using P-	Superposition theorem	measurements and waveforms.	Spice/MATLAB software and compare the	Construct the following circuits using P-	Superposition theorem	measurements and waveforms.	Spice/MATLAB software and compare the	Construct the following circuits using r-	Superposition theorem	measurements and waveforms.	Spice/MATLAB software and compare the	graphicery the following circuits using P-	rically	circuit with Comments and determine the rise time	Analyze the Charging and Compute the time constant	ically having and discharging of an R-C & R-L	from the tabulated data and determine	circuit with oscilloscope and Compute the rise time	Analyze the charging and discharging of all NCC	ically	from the tabulated data and determine the rise time	Analyze the clidibing and Compute the time constant	graphically larging and discharging of an R-C & R-L	from the tabulated data and determine the	circuit with oscilloscope and Compute the rise time	Analyze the charging and discharging of an K-C & K -	ally a constant	from the tabulated data and determine the rise time	Analyze the Charles and Compute the time constant	graphically graphically and discharging of an R-C & R-L	from the tabulated data and determine the	circuit with oscilloscope and Compute the rise time	Analyze the charging and discharging of all its	illy Space R-L	from the tabulated data and determine the rise time	Analyze the charging and Compute the time constant	lly discharging of an R-C & R-L	from the tabulated data and determine the lise simple.	circuit with oscilloscope and Compute the time constant

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Construct the following circuits using P-Spice/MATLAB software and compare the measurements and waveforms. Transient Response in R-L-C series circuit	Spice/MATLAB software and compare the measurements and waveforms. Transient Response in R-L-C series circuit	Construct the following circuits using P-	measurements and waveforms. Transient Response in R-L-C series circuit	Construct the following circuits using P-Spice/MATLAB software and compare the	Transient Response in R-L-C series circuit	measurements and waveforms.	Construct the following circuits using P- Spice / MATI AR software and compare the	Series Resonant Circuit	Spice/MATLAB software and compare the	Construct the following circuits using P-	measurements and waveforms. Series Resonant Circuit	Spice/MATLAB software and compare the	Construct the following circuits using P-	Series Resonant Circuit	Spice/MATLAB software and compare the	Construct the following circuits using P-	Series Resonant Circuit	Spice/MATLAB software and compare and	Construct the following circuits using P-	Superposition theorem	measurements and waveloring.

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