

DISCIPLINE		SEMESTER	NAME OF THE TEACHING FACULTY	
ELECTRICAL		4TH	MISS.SINDHUJA PANIGRAHI(PTGF)	
SUBJECT:Simulation Practice on MATLAB Simulation Practice on MATLAB(PR-3)		NO. OF DAYS PER WEEK CLASS ALLOTTED : 03		SEMESTER FROM 04/02/2025 TO 17/05/2025
				NO. OF WEEKS : 15 NOS.
WEEKS	CLASS DAYS	THEORY TOPICS		
1ST WEEK	1ST	Introduction to MATLAB programming		
	2ND	To learn algebraic, trigonometric and exponential manipulation		
	3RD	To learn algebraic, trigonometric and exponential manipulation		
2ND WEEK	1ST	To learn Arithmetic, Relational and Logic operator		
	2ND	To learn Arithmetic, Relational and Logic operator		
	3RD	To learn Arithmetic, Relational and Logic operator		
3RD WEEK	1ST	Matrix formation and its manipulation		
	2ND	Matrix formation and its manipulation		
	3RD	Matrix formation and its manipulation		
4TH WEEK	1ST	Use of linspace to create vectors & manipulation (add ,subtract &multiply ) of vectors		
	2ND	Use of linspace to create vectors & manipulation (add ,subtract &multiply ) of vectors		
	3RD	Use of linspace to create vectors & manipulation (add ,subtract &multiply ) of vectors		
5TH WEEK	1ST	To get familiar with plotting commands(Two dimensional Plots and sub plots)		
	2ND	To get familiar with plotting commands(Two dimensional Plots and sub plots)		
	3RD	Label the plot and printing		
6TH WEEK	1ST	Write and execute a file to plot a circle		
	2ND	Write and execute a file to plot a circle		
	3RD	Write and execute a file to plot a circle		
7TH WEEK	1ST	Write and execute a file to plot impulse, step, ramp signals		
	2ND	Write and execute a file to plot impulse, step, ramp signals		
	3RD	Write and execute a file to plot impulse, step, ramp signals		
8TH WEEK	1ST	Write and execute a file to plot sine and cosine functions		
	2ND	Write and execute a file to plot sine and cosine functions		
	3RD	Write and execute a file to plot sine and cosine functions		
9TH WEEK	1ST	Introduction to SIMULINK		
	2ND	Use of Commonly used blocks, Math operation block and Display block from SIMULINK library		
	3RD	Use of Commonly used blocks, Math operation block and Display block from SIMULINK library		
10TH WEEK	1ST	Use of logical and relational operator block		
	2ND	Use of logical and relational operator block		
	3RD	Use of logical and relational operator block		
	1ST	Use of Sim-Power system block to use Electrical sources, elements and Power electronics devices		



11TH WEEK	2ND	Use of Sim-Power system block to use Electrical sources, elements and Power electronics devices
	3RD	Use of Sim-Power system block to use Electrical sources, elements and Power electronics devices
12TH WEEK	1ST	Verification of Network theorems
	2ND	Verification of Network theorems
	3RD	Verification of Network theorems
13TH WEEK	1ST	Simulation of a half wave uncontrolled rectifier
	2ND	Simulation of a half wave uncontrolled rectifier
	3RD	Simulation of a half wave uncontrolled rectifier
14TH WEEK	1ST	Simulation of 1-phase full bridge controlled rectifier
	2ND	Simulation of 1-phase full bridge controlled rectifier
	3RD	Simulation of 1-phase full bridge controlled rectifier
15TH WEEK	1ST	Simulation of step-down chopper
	2ND	Simulation of step-down chopper
	3RD	Simulation of step-down chopper

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10/02/2025  
(G.F., ELECT)

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4/21/2025  
HOD (ELECTRICAL)  
GOVT. POLY.  
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