ACADEMIC LESSON PLAN OF SUMMER 2024

Discipline: ELECTRICAL	Semester:4 TH (SEC-A)	Name of the Teaching Faculty: ANANYA SHUBHADARSINEE		
ENGG.	GROUP-1			
Subject:	No. of days/per	Semester From: 16 th January2024 to 26 th April 2024		
SIMULATION	week class	No. of weeks:15 weeks		
ON MATLAB	allotted:	INO. OF WEEKS. IS WEEKS		
	1p(3hr)/week			
1 st	1 st	1. Introduction to MATLAB programming: 1.1. Functions and operation using variables and arrays.		
2 nd	1 st	1.1.1. To learn algebraic, trigonometric and exponential manipulation.		
3 rd	1 st	1.1.2. To learn Arithmetic, Relational and Logic operator.		
4 th	1 st	1.3. Vector manipulation: 1.3.1. Use of linspace to create vectors.		
5 th	1 st	1.3.2. To create, add and multiply vectors.		
6 th	1 st	1.3.3. Use of sin and sqrt functions with vector arguments.		
7 th	1st	1.4. Plotting: 1.4.1. Two dimensional Plots and sub plots		
8 th	1 st	1.4. Plotting: 1.4.1. Two dimensional Plots and sub plots		
		1.4.2. Label the plot and printing.		
9 th	1 st	1.5. Write and execute a file to plot a circle, impulse, step, ramp, sine and cosine functions.		
10 th	1 st	2.Introduction to SIMULINK:		
10		2.1. Use of Commonly used blocks, Math operation block and Display block from SIMULINK library.		
11 th	1 st	2.2. Use of logical and relational operator block.		
11		2.3. Use of Sim-Power system block to use Electrical sources, elements and		
12 th	1 st	Power electronics devices. 2.4. SIMULATION:		
12	1	2.4.1. Verification of Network theorems.		
13 th	1 st	2.4.2. Simulation of a half wave uncontrolled rectifier.		
14 th	1 st	2.4.3. Simulation of 1-phase full bridge controlled rectifier.		
15 th	1 st	2.4.4. Simulation of step-down chopper.		
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Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2024

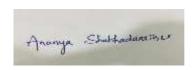
Discipline:	Semester:4 TH	Name of the Teaching Faculty: ANANYA SHUBHADARSINEE			
ELECTRICAL	(SEC-A)				
ENGG.	GROUP-2				
Subject:	No. of days/per	Semester From: 16 th January2024 to 26 th April 2024			
SIMULATION	week class	No. of code 45 code			
ON MATLAB	allotted:	No. of weeks:15 weeks			
ON MATLAB	1p(3hr)/week				
1 st	1 st	1. Introduction to MATLAB programming:			
		1.1. Functions and operation using variables and arrays.			
2^{nd}	1 st	1.1.1. To learn algebraic, trigonometric and exponential manipulation.			
3 rd	1 st	1.1.2. To learn Arithmetic, Relational and Logic operator.			
4 th	1 st	1.3. Vector manipulation: 1.3.1. Use of linspace to create vectors.			
5 th	1 st	1.3.2. To create, add and multiply vectors.			
6 th	1 st	1.3.3. Use of sin and sqrt functions with vector arguments.			
7 th	1st	1.4. Plotting: 1.4.1. Two dimensional Plots and sub plots			
8 th	1 st	1.4. Plotting: 1.4.1. Two dimensional Plots and sub plots			
		1.4.2. Label the plot and printing.			
9 th	1 st	1.5. Write and execute a file to plot a circle, impulse, step, ramp, sine and cosine functions.			
, oth	1 st	2.Introduction to SIMULINK:			
10 th		2.1. Use of Commonly used blocks, Math operation block and Display block			
		from SIMULINK library.			
11 th	1 st	2.2. Use of logical and relational operator block.			
11		2.3. Use of Sim-Power system block to use Electrical sources, elements and			
db.	1 st	Power electronics devices.			
12 th	l I st	2.4. SIMULATION:			
13 th	1 st	2.4.1. Verification of Network theorems.2.4.2. Simulation of a half wave uncontrolled rectifier.			
		2.4.2. Simulation of a hair wave uncontrolled fectifier.			
14 th	1 st	2.4.3. Simulation of 1-phase full bridge controlled rectifier.			
15 th	1 st	2.4.4. Simulation of step-down chopper.			



Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2024

Discipline: ELECTRICAL ENGG.	Semester:4 TH (SEC-B)	Name of the Teaching Faculty: ANANYA SHUBHADARSINEE		
Subject: SIMULATION ON MATLAB	No. of days/per week class allotted:	Semester From: 16 th January2024 to 26 th April 2024 No. of weeks:15 weeks		
	1p(3hr)/week			
1^{st}	1 st	1. Introduction to MATLAB programming:1.1. Functions and operation using variables and arrays.		
2^{nd}	1 st	1.1.1. To learn algebraic, trigonometric and exponential manipulation.		
3 rd	1 st	1.1.2. To learn Arithmetic, Relational and Logic operator.		
4 th	1 st	1.3. Vector manipulation: 1.3.1. Use of linspace to create vectors.		
5 th	1 st	1.3.2. To create, add and multiply vectors.		
6 th	1 st	1.3.3. Use of sin and sqrt functions with vector arguments.		
7 th	1st	1.4. Plotting: 1.4.1. Two dimensional Plots and sub plots		
8 th	1 st	1.4. Plotting: 1.4.1. Two dimensional Plots and sub plots		
.1	st	1.4.2. Label the plot and printing.		
9 th	1 st	1.5. Write and execute a file to plot a circle, impulse, step, ramp, sine and cosine functions.		
10 th	1 st	2.Introduction to SIMULINK:2.1. Use of Commonly used blocks, Math operation block and Display block from SIMULINK library.		
11 th	1 st	2.2. Use of logical and relational operator block.2.3. Use of Sim-Power system block to use Electrical sources, elements and Power electronics devices.		
12 th	1 st	2.4. SIMULATION: 2.4.1. Verification of Network theorems.		
13 th	1 st	2.4.2. Simulation of a half wave uncontrolled rectifier.		
14 th	1 st	2.4.3. Simulation of 1-phase full bridge controlled rectifier.		
15 th	1 st	2.4.4. Simulation of step-down chopper.		



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