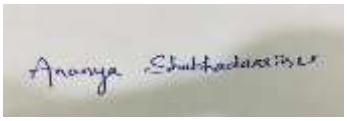
ACADEMIC LESSON PLAN OF SUMMER 2024

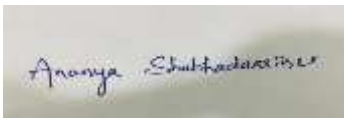
Discipline: ELECTRICAL ENGG.	Semester:4TH (SEC-A) GROUP-1	Name of the Teaching Faculty: ANANYA SHUBHADARSINEE
Subject: SIMULATION ON MATLAB	No. of days/per week class allotted: 1p(3hr)/week	Semester From: 16th January2024 to 26th April 2024 No. of weeks:15 weeks
1st	1st	**1. Introduction to MATLAB programming:**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



Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2024

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



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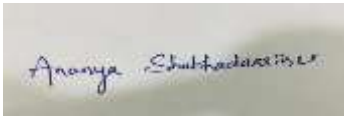
ACADEMIC LESSON PLAN OF SUMMER 2024

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



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