

ACADEMIC LESSON PLAN OF SUMMER 2023

Discipline: ELECTRICAL ENGG.	Semester:4 TH (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: 14 th Feb 2023 to 23 rd May 2023 No. of Weeks: 15 weeks
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: 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 (EXTRA CLASSES)	1 st	2.4.4. Simulation of step-down chopper.

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2023

Discipline: ELECTRICAL ENGG.	Semester:4 TH (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: 14 th Feb 2023 to 23 rd May 2023 No. of Weeks: 15 weeks
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: 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 (EXTRA CLASSES)	1 st	2.4.4. Simulation of step-down chopper.

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2023

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: 1p(3hr)/week	Semester From: 14 th Feb 2023 to 23 rd May 2023 No. of Weeks: 15 weeks
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.
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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 (EXTRA CLASSES)	1 st	2.4.4. Simulation of step-down chopper.

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