



MAHARASHTRA INSTITUTE OF TECHNOLOGY
Chhatrapati Sambhajnagar
(An Autonomous Institute)
Department of Electrical Engineering

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Class: S.Y (Autonomous)

Course: EED202Electrical Measurement & Instrumentation

Course Outcomes

C01	Recall the characteristics of Measuring Instruments.
C02	Classify diverse electrical instruments based on their types & application with advantages & disadvantages
C03	Solve the problems based on measuring instruments
C04	Analyse the construction & working of different electrical measuring instrument
C05	Experiment with the electrical devices for measuring power & resistances
C06	Test the calibration of electrical measuring instruments.

CO-PO/PSO Mapping

	PO1	PO2	PO ₃	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PS03
C01	2											1	1		
C02		1										1	1	1	1
C03	1	1			1	1						1	1	2	1
C04	2	1			1	1						1	1	2	
C05	2	1			2							2	1		2
C06	1	2	2	1								2	1	2	2
AVG															



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COURSE NAME-EED201 Electrical Machine-I

	By the end of the course the student will be able to:
C01	Define fundamentals of transformer and DC Machines.
C02	Compare various parameters of electric machines.
C03	Identify and organize characteristics of different electric machines.
C04	Analyse circuit model of electric machines.
C05	Justify various electric machines.
C06	Construct the control operation and formulate various tests on electric machines.

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
CO 1	2	2	1										2		1
CO 2	1	1	2										1		1
CO 3	1		1										1		
CO 4	2			2										1	1
CO 5	1	1											1		
CO 6	1	1											1		
AVG	1.3	1.3	1.3	1.5									1.2	1	1



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Class: S.Y (Autonomous)

Course: EED224 Fundamentals of MATLAB Programing

Course Outcomes

	By the end of the course the student will be able to:
C01	To be able to use MATLAB for demonstration of various arithmetic and logical operations.
C02	To be able to apply knowledge of MATLAB in analysis of Electrical Engineering Circuits.

CO-PO/PSO Mapping

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
C01	2		1	2	2					1		1	1	2	
C02	2	2	2		2					1		1	2	2	2
AVG															

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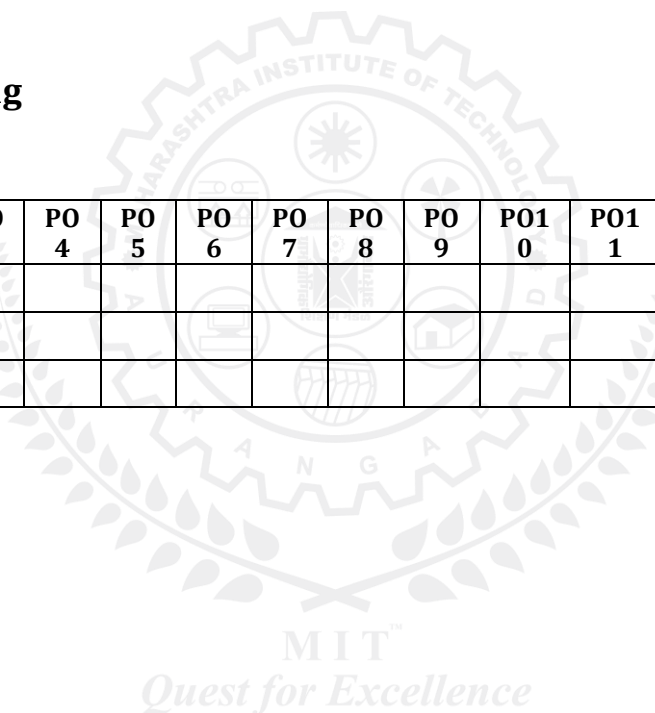
Course: EED225 Data Analytics

Course Outcomes

	By the end of the course the student will be able to:
CO1	Write a program using R script
CO2	Understand regression, classification and clustering model

CO-PO/PSO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2											2		
CO2		2											2		
AVG															





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Course: BSC251A Complex Variable & Vector Calculus

	By the end of the course the student will be able to:
C01	Find the Fourier transform of given function
C02	Express the function in Fourier series in different intervals
C03	Discuss the function of complex variables
C04	Make use of partial derivatives for differentiation of vector functions
C05	Evaluate vector integral by Stoke's theorem & Gauss theorem
C06	Solve the difference equations by z-transform.

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Class: S.Y (Autonomous)

Course: EED 251 Electrical Machines-II

Course Outcomes

	By the end of the course the student will be able to:
C01	Describe operation of various types of AC machines. (remembering)
C02	Outline the performance of AC Machines for studying the torque-speed characteristics. (Understand).
C03	Formulate different tests for calculating the performance parameters of three phase induction motors. (Analyze)
C04	Calculate equivalent circuit models of AC electric machines. (Apply)
C05	Illustrate the electromagnetic laws for the operation of three phase synchronous (understand)
C06	Identify and compare AC machines as per applications. (Analyze).

CO-PO/PSO Mapping

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
C01	3												1		
C02		3	2	2										1	
C03	3	3	2										1	1	
C04	3	2	2	2									1	1	
C05	3		2										1		
C06	3		3										1		
AVG	3	2.6	2.2	2									1	1	



Class: S.Y (Autonomous)

Course: EED 252 Network Analysis

Course Outcomes

	By the end of the course the student will be able to:
C01	List circuit laws and simplify the network using reduction technique.
C02	Interpret the circuits using Kirchhoff's laws and network simplification techniques.
C03	Solve transient response, steady state response, network function.
C04	Derive maximum power transfer to the load and analyze the different circuits.
C05	Evaluate network circuit parameters and validate them.
C06	Design the circuits using network synthesis in time and frequency domain.

CO-PO/PSO Mapping

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
C01	2	2	-	-									2		-
C02	3	2	-	1									3	2	-
C03	2	1	-	-									2	-	-
C04	1	1	-	-									2	-	-
C05	2	2	-	-									2	-	2
C06	2	1	2	1										3	2
AVG	2	1.5	2	1									2.2	2.5	2



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Course: EED 253 Signal & System

Course Outcomes

	By the end of the course the student will be able to:
C01	Memorize the fundamentals of Signals and systems.
C02	Outline the properties of systems using transforms (Laplace transform, Z-transform and Fourier transform)
C03	Make use of fundamentals for analysis of the signals and systems
C04	Analyse the systems using transform tools.
C05	Compare the various signals and systems
C06	Test the signals and system using MATLAB based tools

CO-PO/PSO Mapping

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Course: EED 281 Professional Elective-I-Digital Electronics

Course Outcomes

	By the end of the course the student will be able to:
C01	Examine the different number system and perform the conversion among different number system
C02	Perform arithmetic operations on signed and unsigned binary numbers
C03	Minimize the logical expression using Boolean Algebra and k-map method
C04	Realize combinational circuits for given logical expression
C05	Design and analyze synchronous and asynchronous sequential circuits using flip-flops
C06	Examine the characteristics of various logic families

CO-PO/PSO Mapping

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
C01	1												1		
C02		2											1		
C03			1										1		
C04			2		1								1		
C05		1											1		
C06				1									1		
AVG	1	1.5	1.5		1								1		



Class: S.Y (Autonomous)

Course: EED 283 Renewable Energy Source

Course Outcomes

	By the end of the course the student will be able to:
C01	Define various sources of energy (Remember)
C02	Explain the operation of biomass, wind & solar energy with its techniques. (Understand)
C03	Recall knowledge about working principle of photovoltaic cell (Remember)
C04	Identify the economics of RES (Remember)

CO-PO/PSO Mapping

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03
C01	1												1		
C02	2												2		
C03		2											1		
C04			1		2								1	1	
AVG															