

Sr.No	Course Code	Course Name
1	BTEEC701	High Voltage Engineering

Department :	Electrical Engineering
Academic Year:	2022-23
Class :	Btech
Course Code :	BTEEC702
Course Name :	HVE
Name of Faculty	Prof.S.P.Kamble

Upon successful completion of the course students will be able to:	
CO1	Explain the concept of electric field stresses, applications of insulating materials and methods for Non-destructive testing of equipment like transformers, insulators, isolators, bushings, lightning arrestors, cables, circuit breakers and surge diverters
CO2	Demonstrate the breakdown process in solid, liquid, and gaseous materials
CO3	Illustrate methods for generation and measurement of High Voltages and Currents (both ac and dc). Describe the phenomenon of over-voltage and choose appropriate insulation coordination levels based on IS & IEC Standards.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2									2				
CO2	2									2				
CO3	3	2	2							2				

Department :	Electrical and Computer Engg.
Academic Year:	2022-23
Class :	B.Tech Final Year
Course Code :	BTEEC702
Course Name :	Power Systems Operation & Control
Name of Faculty	Mr. M. V. Dongare

Upon successful completion of the course students will be able to:	
CO1	Statement -1 Understand operation and control of power systems.
CO2	Statement - 2 Analyse various types of Power System Stability.
CO3	Statement - 3 Understand various excitation systems & load frequency control in power system.
CO4	Statement - 4 Understand the concept of computer control of power systems and data acquisition.

[illegible]

Department :	Electrical and Computer Engg.
Academic Year:	2022-23
Class :	B.Tech Final Year
Course Code :	BTEEC702
Course Name :	Applications of Power Electronics in Power System
Name of Faculty	Prof. S. Y. Gadgune

Course Outcome

Upon successful completion of the course students will be able to:

C01	1) Recall historical improvements in power transmission and apply power electronics principles to enhance power system operation.			
C02	2) Demonstrate an understanding of the operation of FACTS controllers, analyze their modeling techniques, and evaluate their impact on improving power system stability and control.			
C03	3) Explain the generation and effects of harmonics in power systems and apply power electronics principles to design solutions for harmonic mitigation.			
C04	4) Analyze active and hybrid power filters, evaluate their role in addressing power quality issues, and apply IEEE standards to ensure compliance in power systems.			

CO - PO Mapping Table

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3						2	2						
CO2	2	2					2							
CO3	2	2	2			2	2					2		
CO4	3	2				2	2					3		

4 BTEEOE705

Testing, Maintenance and Commissioning of Electrical Equipment

Department :	Electrical Engineering
Academic Year:	2023-24
Class :	B.Tech
Course Code :	BTEEOE705
Course Name :	Testing, Maintenance and Commissioning of Electrical Equipment
Name of Faculty	Mr.S.K.Shaikh

Course Outcome

Upon successful completion of the course students will be able to:

C01	Preparation of maintenance schedule of different equipment and machines
C02	Create Troubleshooting chart and testing for various electrical equipment.
C03	Illustrate procedure of different types of earthing for different types of electrical installations
C04	Familiar about electrical safety regulations and rules during maintenance.

CO - PO Mapping Table

[illegible]

Course Outcome	
Upon successful completion of the course students will be able to:	
CO1	Describe an entrepreneurial venture, current trend of technology, organizational structure.
CO2	Describe an entrepreneurial venture, current trend of technology, organizational structure.
CO3	Summarize Basic knowledge of financial statements and project report, introductory knowledge on marketing management,
CO4	Describe Human resource management, & strategic management, risk analysis, legal aspect of business, how to raise fund during life-cycle of a new ventures.
CO - PO Mapping Table	

6	BTEECOE505B	Ind 4.0 and HOT
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Course Outcome	
Upon successful completion of the course students will be able to:	
CO1	Able to understand the application areas of IOT & emerging areas of industrial internet of things.
CO2	Able to realize the revolution of internet in Mobile devices, Cloud and Sensor Network .
CO3	Able to understand the building blocks of internet of things and characteristics

CO - PO Mapping Table

[illegible]