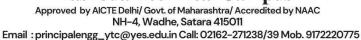




# Yashoda Technical Campus





mail: principalengg\_ytc@yes.edu.in Call: 02162-271238/39 Mob. 91 Faculty of Engineering

## **Department of Electrical Engineering**

Academic Year 2024-25

**Semester-ODD** 

### **Structure of Course**

Class	B. Tech. Sem. –VI					
Course Code and Course Title	BTEEOE705B Electric and Hybrid Electric Vehicles					
Prerequisite/s	BTEEC302, BTEEC403, BTEEC503					
Teaching Scheme:	03/00/00					
Lecture/Tutorial/Practical						
Credits	03					
Evaluation Scheme: CA / MSE / ESE	20/20/60					

### **Course Outcomes:**

Course Outcomes (COs):			
Upon successful completion of this course, the student will be able to:			
BTEEOE705B_1	<b>Interpret</b> beneficial aspects of electric vehicle and vehicle mechanics of conventional vehicles.	L3	
BTEEOE705B_2	<b>Illustrate</b> different drive train and control mechanism for Electric and Hybrid Vehicles.	L3	
BTEEOE705B_3	Classify propulsion systems for Electric and Hybrid Electric Vehicles.	L3	
BTEEOE705B_4	<b>Discuss</b> energy storage and its hybridization system for Electric and Hybrid Electric Vehicles.	L3	
BTEEOE705B_5	<b>Estimate</b> sizing of motor, power electronics and storage technology for Electric and Hybrid vehicle.	L4	

## Mapping of CO's with PO's and PSO's:

Course Outcomes	Programme Outcomes														
Course Outcomes	1	2	3	4	5	6	7	8	9	10	11	12	PSO 1	PSO 2	PSO 3
BTEEOE705B_1	3							2	2	2					2
BTEEOE705B_2	3							2	2	2					2
BTEEOE705B_3	3							2							2
BTEEOE705B_4	3	2			2			2		2				2	2
BTEEOE705B_5	3	2			2			2		2				2	2
Total	15	4			4			10	4	8			·	4	10
Average	3	2			2			2	2	2				2	2
BTEEOE705B	3	2			2			2	2	2				2	2

## **CO Attainment Targets:**

CO	705B 1	705B 2	705B 3	705B 4	705B 4
Previous Attainment					

Prepared by Course Coordinator

Verified by Academic Coordinator

Approved by HOD- Electrical

### Mission of the Department

We, at Department of Electrical Engineering, are committed to achieve our vision by-

M1: Preparing technically and professionally competent engineers by imparting quality education through effective teaching learning methodologies.

**M2:** Developing professional skills and right attitude among students that will help them to succeed and progress in their personal and professional career.

M3: Inculcating moral and ethical values in students with concern to society and environment.

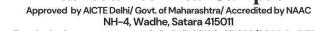
#### Vision of the Department

To emerge as a center of excellence in Electrical Engineering education producing knowledgeable, employable, and ethical engineering graduates to serve industry/society





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**Department of Electrical Engineering** 

**Faculty of Engineering** 

**Target for CAY** 

Prepared by **Course Coordinator** 

Verified by **Academic Coordinator** 

Approved by **HOD- Electrical** 

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