

**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: Lecture/Tutorial/Practical	03/00/00
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:		Blooms Level
BTEEOE705B_1	Interpret beneficial aspects of electric vehicle and vehicle mechanics of conventional vehicles.	L3
BTEEOE705B_2	Illustrate 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	Discuss energy storage and its hybridization system for Electric and Hybrid Electric Vehicles.	L3
BTEEOE705B_5	Estimate 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														
	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 CoordinatorVerified by
Academic CoordinatorApproved by
HOD- Electrical**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

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.



Yashoda Shikshan Prsarak Mandal's

Yashoda Technical Campus

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Faculty of Engineering

Department of Electrical Engineering

Target for CAY					
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