MIT-WPU
॥ विश्वशान्तिर्ध्रुवं ध्रुवा ॥

FACULTY OF ENGINEERING AND TECHNOLOGY

M.Tech e-Mobility

Programme Structure

mitwpu.edu.in

Division	Faculty of Engineering and Technology
School Name	School of Engineering & Technology
Department Name	Department of Electrical and Electronics Engineering
Program Name	M.Tech e-Mobility

COURSE BASKET

Course Type	Description
Programme Core [PC]	Courses dealing with foundations, depth and breadth of the major in which student is admitted at MIT-WPU
Programme Electives [PE]	Open electives under the programme allow students to specialise in a particular area connected to their major.
University Core [UC]	Courses that reflect the core MIT-WPU values and the mission of Life Transformation of students.
University Electives [UE]	Multidisciplinary courses across the faculties at MIT-WPU and outside the programme core.

Semester I

Semester	Course Type	Course Name / Course Title	Total Credits
I	PC	Electric and Hybrid Vehicles	4
I	PC	Power Electronics for EV	4
I	PC	Automotive Embedded Systems	4
I	PC	Research Methodology for eMobility	4
I	PC	Seminar – I	3
I	UC	Scientific Studies of Mind, Matter, Spirit and Consciousness	2
I	UC	Yoga	1
		Total	**22**

Semester II

Semester	Course Type	Course Name / Course Title	Total Credits
II	PC	Drivetrain Control and Vehicle Dynamics	4
II	PC	EV Motor Drives	4
II	PE	Program Elective I	4
II	PE	Program Elective II	4
II	PC	Dissertation Stage – I	10
II	UC	Peacebuilding: Global Initiatives	2
		Total	**28**

Semester - III

Semester	Course Type	Course Name / Course Title	Total Credits
III	PC	Energy Storage & Battery Technology	4
III	PE	Program Elective III	4
III	PC	Dissertation Stage – II	14
		Total	**22**

SEMESTER - IV

Semester	Course Type	Course Name / Course Title	Total Credits
IV	PE	Program Elective IV - MOOC	4
IV	PC	Internship	4
		Total	**8**

Professional Elective Tracks

Semester	Name of the Course	Type
II	TR1- Vehicular Networks and Communication	Program Elective I
II	TR2- Battery Management Systems	Program Elective I
II	TR1 - Advanced Driver-Assistance Systems (ADAS)	Program Elective II
II	TR2 -Smart Grid Systems	Program Elective II
III	TR1 – Intelligent Systems and EV Security	Program Elective III
III	TR2 -Electric Charging Infrastructures	Program Elective III
IV	Program Elective – IV - MOOC	Program Elective IV

*Modifications to the programmes and courses are contingent upon adherence to university guidelines and procedures. Any proposed changes must undergo a thorough review process, including consultation with relevant academic departments, approval from the appropriate administrative bodies, and compliance with accreditation standards.

Additionally, consideration will be given to feedback from students, faculty, and other stakeholders to ensure that modifications align with the overall educational objectives and mission of the university. The implementation of any approved changes will be communicated transparently to the university community, and appropriate measures will be taken to facilitate a smooth transition for all affected parties.