MIT-WPU
॥ विश्वशान्तिर्ध्रुवं ध्रुवा ॥

FACULTY OF ENGINEERING AND TECHNOLOGY

2024 - 25

M. Tech. in eMobility

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
Programme Name	M. Tech. in eMobility

Course Basket

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

Semester	Course Type	Course Name / Course Title	Total Credits
I	PM	Electric & Hybrid Vehicles	4
I	PM	Power Electronics for EV	4
I	PM	EV Motor Drives	4
I	PM	EV simulation & Lab Practices	3
I	PM	Research Methodology for eMobility	4
I	UC	Scientific Studies of Mind, Matter, Spirit and Consciousness	2
I	UC	Yoga	1
		Total	22

Semester	Course Type	Course Name / Course Title	Total Credits
II	PM	Drive Train Control Systems	4
II	PM	Energy Storage Systems	4
II	PM	Automotive Electrical & Electronic Systems	4
II	PE	Programme Elective I	4
II	PR	Seminar - I	2
II	UC	Peacebuilding: Global Initiatives	2
		Total:	20

Semester	Course Type	Course Name / Course Title	Total Credits
III	PE	Programme Elective II	4
III	PE	Programme Elective - III	4
III	PE	Programme Elective – IV (MOOC NPTL)	4
III	PR	Project Stage – I	10
		Total:	22

Semester	Course Type	Course Name / Course Title	Total Credits
IV	PR	Internship	4
IV	PR	Project Stage II	14
		Total:	18

Professional Elective Tracks

Semester	Course Type	Course Name / Course Title
II	Elective I	TR1 Automotive Embedded Systems
II	Elective I	TR2 Battery Management Systems
III	Elective II	TR1 Vehicular Networks and Communication
III	Elective II	TR2 Electric Charging Infrastructures
III	Elective III	TR1 ADAS
III	Elective III	TR2 Smart Grid Systems
III	Elective IV	MOOC NPTL

*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.