



**FACULTY OF
ENGINEERING AND
TECHNOLOGY**



2024 - 25

M.Tech (Construction Engineering and Management)

Programme Structure

Division	Faculty of Engineering and Technology
School Name	School of Computer Science & Engineering
Department Name	Department of Civil Engineering
Programme Name	Construction Engineering and Management

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	Life Cycle Analysis of Construction Projects	4
I	PM	Advanced Construction Processes, Equipment, Technologies	4
I	PM	Statistical Methods in Project Management	4
I	PM	Project Scheduling and Materials Management	4
I	UC	Research Methodology for Civil Engineers	4
I	UC	Scientific Studies of Mind, Matter, Spirit and Consciousness	2
I	UC	Yoga	1
		Total	23

Semester	Course Type	Course Name / Course Title	Total Credits
II	PM	Project Finance and Accounting systems	4
II	PM	Total Quality Management in Construction	4
II	PM	Software Lab I CEM	2
II	PR	Seminar	2
II	PE	Programme Elective - I	4
II	UC	Peacebuilding: Global Initiatives	2
II		Indian Knowledge System	2
		Total:	20

Semester	Course Type	Course Name / Course Title	Total Credits
III	PM	Contract Law, Administration and Management	4
III	PM	Software Lab II CEM	1
III	PR	Research Project I	8
III	PE	Programme Elective-II	4
III	PE	Programme Elective-III	4
		Total:	21

Semester	Course Type	Course Name / Course Title	Total Credits
IV	PR	Internship	4
IV	PR	Research Project II	12
IV	PE	Programme Elective - IV	4
		Total:	20

Programme Electives

Semester	Course Type	Course Name / Course Title
II	Programme Elective I	Earned Value Analysis for Project Management
II	Programme Elective I	Sustainable Construction Materials
II	Programme Elective I	Project Risk Management
III	Programme Elective II	Management for Infrastructure Projects
III	Programme Elective II	Advanced Construction Management Techniques
III	Programme Elective II	Thrust Areas in Project Management
III	Programme Elective III	Digital Technologies and Recent Trends in Project Engineering & Management
III	Programme Elective III	Disaster Management
III	Programme Elective III	Construction Delays: Prevention Remedies
III	Programme Elective III	OSHAS and Safety Management
IV	Programme Elective IV	Entrepreneurship & Business Development
IV	Programme Elective IV	Alternative Dispute Resolution Method
IV	Programme Elective IV	International Contracts and Arbitration
IV	Programme Elective IV	Operations Research

*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.