



FACULTY OF
ENGINEERING AND
TECHNOLOGY



M.Tech Civil Engineering (Construction Engineering and Management)

Division	Faculty of Engineering and Technology
School Name	School of Engineering & Technology
Department Name	Department of Civil Engineering
Program Name	M.Tech Civil Engineering (Construction Engineering and Management)

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

Semester II

| Semester | Course Type | Course Name / Course Title | Total Credits |
|----------|-------------|--|---------------|
| II | PC | Project Finance and Accounting systems | 4 |
| II | PC | Total Quality Management in Construction | 4 |
| II | PC | Software Lab I CEM | 2 |
| II | PC | Seminar | 2 |
| II | PE | Program Elective - I | 4 |
| II | UC | Peace Building: Global Initiatives | 2 |
| | | Total | 18 |

Semester - III

| Semester | Course Type | Course Name / Course Title | Total Credits |
|----------|-------------|---|---------------|
| III | PC | Contract Law, Administration and Management | 4 |
| III | PC | Software Lab II CEM | 2 |
| III | PC | Research Project I | 8 |
| III | PE | Program Elective-II | 4 |
| III | PE | Program Elective-III | 4 |
| | | Total | 22 |

SEMESTER - IV

| Semester | Course Type | Course Name / Course Title | Total Credits |
|----------|-------------|----------------------------|---------------|
| IV | PC | Internship | 4 |
| IV | PC | Research Project II | 12 |
| IV | PE | Program Elective - IV | 4 |
| | | Total | 20 |

Professional Elective Tracks

| Semester | Name of the Course | Type |
|----------|--|----------------------|
| II | Value analysis, Valuation, and Earned Value Management | Program Elective I |
| II | Sustainable Construction Materials | Program Elective I |
| II | Project Risk Management | Program Elective I |
| III | Management for Infrastructure Projects | Program Elective II |
| III | Advanced Construction Management Techniques | Program Elective II |
| III | Thrust Areas in Project Management | Program Elective II |
| III | Advanced Digital Technologies in Project Management | Program Elective III |
| III | Disaster Management | Program Elective III |
| III | Construction Delays: Prevention Remedies | Program Elective III |
| III | Construction Safety Management | Program Elective III |
| IV | Entrepreneurship & Business Development | Program Elective IV |
| IV | Alternative Dispute Resolution Method | Program Elective IV |
| IV | International Contracts and Arbitration | Program Elective IV |
| IV | Operations Research | Program Elective IV |
| IV | Organizational Behavior | 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.