



FACULTY OF
ENGINEERING AND
TECHNOLOGY



2024 - 25

M.Tech (Data Science and Analytics)

Programme Structure

Division	Faculty of Engineering and Technology
School Name	School of Computer Science & Engineering
Department Name	Department of Computer Engineering and Technology
Programme Name	Data Science and Analytics

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	Research Methodology	4
I	PM	Computational Statistics for Data Science	4
I	PM	Advances in Machine Learning	4
I	PM	Advances in AI	4
I	PM	Deep Generative Models	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	Natural Language Processing	4
II	PM	Data Analytics for Data Science	4
II	PE	Programme Elective I Soft Computing Techniques Reinforcement Learning	4
II	PM	Software Lab I Data Science and Analytics	2
II	PR	Seminar	2
II	UC	Peacebuilding: Global Initiatives	2
Total			18

Semester	Course Type	Course Name / Course Title	Total Credits
III	PM	Image and Video Analytics	4
III	PE	Programme Elective II 1. Data Privacy for Data Science 2. Cloud and Blockchain for data Analytics	4
III	PE	Programme Elective III 1. Healthcare Data Analytics 2. Social Media Analytics	4
III	PM	Software Lab II Data Science and Analytics	1
III	PR	Research Project I	8
Total			21

Semester	Course Type	Course Name / Course Title	Total Credits
IV	PE	Programme Elective IV 1. Business Data Analytics and Applications 2. Quantum Computing and Machine Learning	4
IV	PR	Internship	4
IV	PR	Research Project II	12
Total			20

*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.