



M.Sc. Computer Science ***(Data Science & Data Data Analytics)***

Division	Faculty of Engineering and Technology
School Name	School of Computer Science & Engineering
Department Name	Department of Computer Engineering and Technology
Programme Name	M.Sc. Computer Science (Data Science & Data 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 specialise in a particular area connected to their major.
University Core	Courses that reflect the core MIT-WPU 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 I

Semester	Course Type	Course Name / Course Title	Total Credits
I	PM	Artificial Intelligence	3
I	PM	Big Data Technologies	4
I	PM	Computational Methods for Data Science	4
I	PM	Data Warehousing & Data Mining	2
I	PR	Mini Project I	2
I	UC	Research Methodology	4
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	PM	Data Analysis using Python	4
II	PM	Machine Learning	4
II	PR	Mini Project II	2
II	PR	Research Paper Writing	1
II	PR	Cognitive Skills	1
II	PE	Program Elective I (PE I)	4
II	PE	Program Elective II (PE II)	4
II	UC	Peace Building: Global Initiatives	2
		Total:	22

Semester - III

Semester	Course Type	Course Name / Course Title	Total Credits
III	PM	Natural Language Processing	4
III	PM	Deep Learning	4
III	PM	Cloud Computing	2
III	PR	Mini Project III	2
III	PE	Program electives III (PE III)	4
III	PE	Program elective IV (PE IV)	4
III	PR	Seminar	2
		Total:	22

SEMESTER - IV

Semester	Course Type	Course Name / Course Title	Total Credits
IV	PR	Full-Time Industrial Internship	22
		Total Credits:	22

Program Elective Tracks

Semester	Course Type	Course Name / Course Title
II	Program Elective - I	Data Analysis using SQL
II	Program Elective - I	Data Visualization in R
II	Program Elective - I	NodeJS
II	Program Elective - I	Ethics and Data Privacy
II	Program Elective - II	NoSQL Databases
II	Program Elective - II	Business Intelligence
II	Program Elective - II	Django
II	Program Elective - II	Data Science and Internet of Things
III	Program Elective – III	Data Engineering
III	Program Elective – III	Image Analytics
III	Program Elective – III	Flask
III	Program Elective – III	Blockchain Technology
III	Program Elective – IV	Intelligent Database System
III	Program Elective – IV	Social Media Analytics
III	Program Elective – IV	DevOps
III	Program Elective – IV	iOS Programming

*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.