

FACULTY OF ENGINEERING AND TECHNOLOGY

MIT WORLD PEACE UNIVERSITY

SHRI SAINT JNANESHWARA WORLD PEACE LIBRARY

2024 25

M.Sc. Computer Science

Programme Structure



Division	Faculty of Engineering and Technology	
School Name	School of Computer Science & Engineering	
Department Name	Department of Computer Science and Applications	
Programme Name	M.Sc. Computer Science	

Course Basket

Course Type	Description
Programme Core	Courses dealing with foundations, depth and breadth of the major in which a 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 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.

Credit Distribution

Course Basket		% Credit Allotment	Credits As- signed
Programme core		35.2	31
Programme electives		18.2	16
Programme research	Break up of research credits	36.37% Total Credits	32 Total Credits
	Research Paper Writing	2.27	2
	Mini Project	6.82	6
	моос	4.55	4
Internship	nship		20
University core	Research Methodology	4.55	04 (first semes- ter)
University core	Peace + Yoga	5.68	05 (02+02+01) *
Total		100	88

Semester	Course Type	Course Name / Course Title	Total Credits
Ι	Programme Major	Advanced Java	5
I	Programme Major	Advanced Operating System	4
T	Programme Major	Network Security	4
I	Program Capstone Project, Problem- Based Learning, Seminar and Internships	Mini Project 1	2
1	University Core	Scientific Studies of Mind, Matter, Spirit and Consciousness	2
I	University Core	Уода	1
I	University Core	Research Methodology	4
		Total:	22

II	Programme Major	Algorithm Design Strategies	4
II	Programme Major	Python Programming	4
II	Programme Capstone Project, Problem Based Learning, Seminar and Internships	Mini Project 2	2
II		PE1 - Cyber Security	
II	Programme	PE1 - Artificial Intelligence	4
П	Elective 1	PE1 - Introduction to Blockchain Technology	
П		PE1 – Agile Methodology	
П		PE2 - Information System Audit	
II	Programme Elective 2	PE2 - Big Data Analytics and Data Visualization	4
I		PE2 - Internet of Things	
II		PE2 – Theory of Computer Science	

Semester	Course Type	Course Name / Course Title	Total Credits
II	Programme Capstone Project, Problem Based Learning, Seminar and Internships	Research Paper Writing	2
П	University Core	Peacebuilding: Global Initiatives	2
		Total:	22

Ш	Programme Major	Angular Programming	3
III	Programme Major	Cloud Computing	3
Ш	Programme Major	Machine Learning	4
III	Programme Capstone Project, Problem Based Learning, Seminar and Internships	Mini Project 3	2
Ш		PE3 - Android Programming	
111	Programme	PE3 - Next Generation Databases	4
111	Electives	PE3 - DevOps	
111		PE3 - Software Testing and Quality Assurance	
111		PE4 - Design Thinking	
III	Programme	PE4 - Digital Image Processing	4
Ш	Electives	PE4 - Node JS	
Ш		PE4 – Multimedia and Animation	
III Programme MOOO Capstone Project, Problem Based Learning, Seminar and Internships		MOOC	2
		Total	22

Semester	Course Type	Course Name / Course Title	Total Credits
IV	Programme Capstone Project, Problem-Based Learning, Seminar and Internships	Full-time Industrial Training	20
IV Programme M Capstone Project, Problem-Based Learning, Seminar and Internships		MOOC	2
		Total:	22

Elective Tracks

Semester	Course Type	Course Name / Course Title
II	Programme Elective - I	PE1 - Cyber Security
II	Programme Elective - I	PE1 - Artificial Intelligence
II	Programme Elective - I	PE1 - Introduction to Blockchain Technology
- 11	Programme Elective - I	PE1 – Agile Methodology
П	Programme Elective - II	PE2 - Information System Audit
II	Programme Elective - II	PE2 - Big Data Analytics and Data Visualization
II	Programme Elective - II	PE2 - Internet of Things
П	Programme Elective - II	PE2 – Theory of Computer Science
Ш	Programme Elective - III	PE3 - Digital Forensic
Ш	Programme Elective - III	PE3 - Next Generation Databases
	Programme Elective - III	PE3 - DevOps
ш	Programme Elective - III	PE3 - Software Testing and Quality Assurance
Ш	Programme Elective - IV	PE4 - Design Thinking
	Programme Elective - IV	PE4 - Digital Image Processing
	Programme Elective – IV	PE4 - Node JS
	Programme Elective - IV	PE4 –Multimedia and Animation

*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.