FACULTY OF ENGINEERING AND TECHNOLOGY

MIT-WPU

2024 - 25

MIT WORLD PEACE UNIVERSITY

SHRI SAINT JNANESHWARA WORLD PEACE LIBRARY

M.Tech Computer Science and Engineering
(Cyber Security)

Programme Structure

mitwpu.edu.in

Division	Faculty of Engineering and Technology
School Name	School of Computer Science & Engineering
Department Name	Department of Computer Engineering and Technology
Programme Name	Cyber Security

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	University Core	Scientific Studies of Mind, Matter, Spirit and Consciousness	2
I	University Core	Yoga	1
I	Programme Core	Research Methodology	4
I	Programme Core	Mathematical Foundations for Security	4
I	Programme Core	Applied Cryptography	4
I	Programme Core	Cloud Security	4
I	Programme Core	Applied Machine Learning	4
		Total	23

Semester	Course Type	Course Name / Course Title	Total Credits
II	University Core	Peacebuilding: Global Initiatives	2
II	University Core	Indian Knowledge System	2
II	Research Core (Seminar)	Seminar	2
II	Programme Elective	Programme Elective - I	4
II	Programme Core	Vulnerability Assessment and Penetration Testing	4
II	Programme Core	Digital Forensics Analysis	4
II	Programme Core	Software Lab I Cyber Security	2
		Total:	20

Semester	Course Type	Course Name / Course Title	Total Credits
III	Research Project	Project Stage - I	8
III	Programme Elective	Programme Elective - II	4
III	Programme Elective	Programme Elective - III	4
III	Programme Core	Network Management & Performance Evaluation	4
III	Programme Core	Software Lab II Cyber Security	1
		Total:	20

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

List of Programme Electives

Semester	Programme Electives	Course Name / Course Title	Total Credits
II	Programme Elective - I	Data Privacy and Compliances	4
II	Programme Elective - I	Advanced Security Management and Cyber Laws	4
II	Programme Elective - II	Identity Access and Management	4
II	Programme Elective - II	Mobile and Wireless Security	4
III	Programme Elective - III	Distributed Networks and Blockchain Technology	4
III	Programme Elective - III	IoT Security	4
III	Programme Elective - IV	Software Defined Networks	4
III	Programme Elective - IV	Web Security	4
		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.