

FACULTY OF ENGINEERING AND TECHNOLOGY

MIT WORLD PEACE UNIVERSITY

SHRI SAINT JNANESHWARA WORLD PEACE LIBRARY

2024

B.Sc. (Computer Science)

Programme Structure



Division	Faculty of Engineering and Technology	
School Name	ne School of Computer Science & Engineering	
Department Name Department of Computer Science and Applications		
Program Name	B.Sc.(Coputer 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.

Summary for Four Years Together

Course Type	Description
Programme Foundation	34
Programme Major	48
Programme Electives	16
Programme Capstone Project/Problem-Based Learning/Seminar and Internships	32
University Core	24
University Electives	9
TOTAL	163

Semester	Course Type	Course Name / Course Title	Total Credits
I	University Core	Effective Communication	1
I	University Core	Critical Thinking	1
I	University Core	Environment and Sustainability	1
1	University Core	Foundations of Peace	2
I	University Core	Yoga - I	1
I	University Core	SLDP	1
I	Programme Foundation	C Programming	5
I	Programme Foundation	Computer Orgnisation	3
I	Programme Foundation	Discret Mathematics	3
I	Programme Foundation	Digital Electronics	4
		Total	22

		Total	22
П	Programme Foundation	Microprocessor	4
II	Programme Foundation	Applied Stastitics	2
П	Programme Foundation	Data Base Management System	4
Н	Programme Major	Data Structure using C	4
II	University Core	Sports	1
П	University Core	IKS(General)	2
II	University Core	Indian Constituion	1
II	University Core	Co-creation	1
II	University Core	Yoga - II	1
II	University Core	Financial Literacy	1
II	University Core	Advanced Excel	1

III Progr III Problem	University Core University Core University Electives University Electives	Research Innovation Design Entrepreneurship (RIDE) Spiritual & Cultural Heritage; Indian Experience UE - I UE-II	1 2 3 3
III III III Progr Probler	University Electives	Heritage; Indian Experience UE - I	3
III Progr III Problem			
III Progr	University Electives	UE-II	3
III Problem			1
III Pi	amme Capstone Project/ m Based Learning/Seminar and Internships	Project Based Learning - I	1
	ogramme Foundation	Microcontroller	4
111	Programme Major	OOP using C++	4
111	Programme Major	Web Technologies	4
		Total	22

IV	University Electives	UE-III	3
IV	University Core	Rural Immersion	1
IV	Programme Capstone Project/ Problem Based Learning/Seminar and Internships	Project Based Learning - II	1
IV	University Core	Life Transformation Skills	1
IV	Programme Foundation	IKS-2	2
IV	Programme Foundation	Number Theory and Calculus	3
IV	Programme Major	Advanced Web Technologies	4
IV	Programme Major	Operating System Concepts	2
IV	Programme Major	Data Communication and Networking	4
IV	Programme Capstone Project/ Problem Based Learning/Seminar and Internships	Lab on Python	2
		Total	23

Semester	Course Type	Course Name / Course Title	Total Credits
V	University Core	Managing Conflicts Peacefully: Tools and Techniques	2
V	Programme Capstone Project/ Problem Based Learning/ Seminar and Internships	Project Based Learning - III	1
V	Programme Electives	Programme Elective	4
V	Programme Major	Core Java	4
V	Programme Major	Theortical Computer Science	2
V	Programme Major	Network Security	2
V	Programme Capstone Project/ Problem Based Learning/ Seminar and Internships	Lab on Data Analytics using Python	2
V	Programme Major	Software Engineering	2
V	Programme Capstone Project/ Problem Based Learning/ Seminar and Internships	Research Paper Writing	1
		Total	20

		Total	19
VI	Programme Capstone Project/ Problem Based Learning/ Seminar and Internships	Mini Project I	4
VI	Programme Major	Internet of Things	2
VI	Programme Major	Agile Methodology	2
VI	Programme Major	Advanced Java Programming	4
VI	Programme Electives	Programme Elective	4
VI	University Core	National Academic Immersion	2
VI	Programme Capstone Project/ Problem Based Learning/ Seminar and Internships	Project Based Learning - IV	1

Semester	Course Type	Course Name / Course Title	Total Credits
VII	Programme Electives	Programme Elective	4
VII	Programme Major	Introduction to AI and ML	4
VII	Programme Major	Mobile Application Development	4
VII	Programme Capstone Project/ Problem Based Learning/ Seminar and Internships	Mini Project II	4
VIII	Programme Electives	Programme Elective	4
VIII	Programme Capstone Project/ Problem Based Learning/ Seminar and Internships	Full Time Industrial Internship	15
		Total	35

List of Programme Electives

Semester	Course Type	Course Name / Course Title	Course Type
V	Programme Elective - I	Fundamentals of Cyber Security	4
V	Programme Elective - I	Introduction to Data Science	4
V	Programme Elective - I	Introduction to blockchain ecosystem	4
VI	Programme Elective - II	Cyber Law & IT Act	4
VI	Programme Elective - II	R Programmeming	4
VI	Programme Elective - II	Bitcoin Mining	4
VII	Programme Elective - III	Intellectual Property Right	4
VII	Programme Elective - III	Data Analysis and Visualisation using R	4
VII	Programme Elective - III	Blockchain Architecture	4
VIII	Programme Elective - IV	Cyber Forensics and Investigation	4
VIII	Programme Elective - IV	Big Data Technologies	4
VIII	Programme Elective - IV	Blockchain technologies	4

*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.