MIT-WPU
॥ विश्वशान्तिर्ध्रुवं ध्रुवा ॥

FACULTY OF
ENGINEERING AND
TECHNOLOGY

2024 - 25

Integrated B.Tech.
Computer Science & Engineering

Programme Structure

mitwpu.edu.in

Division	Faculty of Computer Science & Engineering
School Name	School of Computer Science & Engineering
Department Name	Department of Computer Engineering and Technology
Programme Name	Integrated B.Tech CSE Computer Science and Engineering

Category-wise Credit Distribution

Category	Credits
Programme Foundation	44
Programme Major	59
Programme Electives	8
Programme Capstone Project/Problem Based Learning/Seminar and Internships	8
University Core	15
University Electives	0

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 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 1

Sr. No.	Course Name /Course Title	Course Type	Total Credits
1	Foundation of Engineering Mathematics	PF	4
2	Physics-I	PF	4
3	Chemistry-I	PF	3
4	Problem Solving & Programme Design Using C Language	PF	3
5	Graphics for Engineers	PF	2
6	English	PF	2
7	Yoga-I	UC	1
8	Environment and Sustainability	UC	1

Semester 2

Sr. No.	Course Name /Course Title	Course Type	Total Credits
1	Calculus and Basic Statistics	PF	4
2	Physics-II	PF	4
3	Chemistry-II	PF	3
4	Basics of Mechanics	PF	4
5	Fundamentals of Electrical & Electronics Engineering	PF	3
6	Programming in C	PF	2
7	Sports	UC	1

Semester 3

Sr. No.	Course Name /Course Title	Course Type	Total Credits
1	Linear Algebra and Differential Calculus	PF	3
2	Algorithms and Data structures Concepts	PM	5
3	Object Oriented Programming	PM	4
4	Relational Database Management System Concepts	PM	4
5	Fundamentals of AI	PM	2
6	Skill Course-1 : JS	PM	2
7	Effective Communication	UC	1
8	Critical Thinking	UC	1

Semester 4

Sr. No.	Course Name /Course Title	Course Type	Total Credits
1	Integral Calculus	PF	3
2	Foundations of Network Security	PM	4
3	Competitive Programming	PM	4
4	Digital Techniques	PM	4
5	Python Programming	PM	4
6	Skill Course-2 : Web Technology	PM	2
7	Advanced Excel	UC	1
8	Financial Literacy	UC	1
9	Yoga-II	UC	1

Semester 5

Sr. No.	Course Name /Course Title	Course Type	Total Credits
1	Java Technologies	PM	5
2	Fundamental of Computer Networks	PM	4
3	Concepts of Operating Systems	PM	4
4	Fundamentals of Cloud Computing	PM	3
5	Introduction to Blockchain Technology Basics of Machine Learning	PE	4
6	Capstone Project Stage-I	PR	1
7	Industrial Internship	PR	4
8	Foundation of Peace	UC	2
9	SLDP	UC	1

Semester 6

Sr. No.	Course Name /Course Title	Course Type	Total Credits
1	BlockChain Technology Concepts Applied Machine Learning	PE	4
2	Software Engineering	PM	4
3	Mobile App Development	PM	2
4	Skill Course-3:	PM	2
5	Capstone Project Stage-II	PR	3
6	Co-creation	UC	1
7	Indian Constitution	UC	1
8	IKS (General)	UC	2

Electives

Professional Elective Tracks			
Semester	**Course Code**	**Course Name/ Course Title**	**Course Type**
V	CSEOPE11A	Introduction to Blockchain Technology	Programme Elective - I
V	CSEOPE21A	Basics of Machine Learning	Programme Elective - I
VI	CSEOPE12A	BlockChain Technology Concepts	Programme Elective - II
VI	CSEOPE22A	Applied Machine Learning	Programme Elective - II

Minor			
Semester	**Course Code**	**Course Name/ Course Title**	**Course Type**
IV		Data Structure using 'C'	Minor- I
V		Object Oriented Programming using C++	Minor-II
VI		Python Programming	Minor-III

*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.