

FACULTY OF ENGINEERING AND TECHNOLOGY

B.Tech. Electronics & Communication Engineering

MIT WORLD PEACE UNIVERSITY

2024 25

Programme Structure



Division	Faculty of Engineering and Technology	
School Name	School of Engineering and Technology	
Department Name	Department of Electrical and Electronics Engineering	
Programme Name	B.Tech. Electrical & Computer Engineering	

## Course Basket

Course Type	Description	
Programme Core	Faculty of Engineering and Technology	
Programme Electives	School of Engineering and Technology	
University Core	Department of Electrical and Electronics Engineering	
University Electives	B.Tech. Electronics & Communication Engineering	

Semester	Course Type	Course Name / Course Title	Total Credits
I	University Core	Effective Communication	1
I	University Core	Critical Thinking	1
Ι	University Core	Environment and Sustainability	1
I	University Core	Foundations of Peace	2
I	University Core	Yoga - I	1
I	University Core	SLDP	1
		Total	7

Semester	Course Type	Course Name / Course Title	Total Credits
II	University Core	Advanced Excel	1
II	University Core	Financial Literacy	1
П	University Core	Yoga - II	1
н	University Core	Co-creation	1
П	University Core	Indian Constitution	1
II	University Core	IKS(General)	2
I	University Core	Sports	1
II	Programme Major	Multisim Lab	1
II	Programme Foundation	Engineering Mechanics	3
II	Programme Foundation	Programming and Problem Solving	3
II	Programme Foundation	Integral Calculus	3
II	Programme Major	Basics of Electrical and Electronics Engineering	3
		Total	21

111	University Core Research Innovation Design Entrepreneurship (RIDE)		1
111	University Core	Spiritual & Cultural Heritage; Indian Experience	2
	University Electives	UE - I	3
Ш	University Electives	UE-II	3
Ш	Programme Capstone Project/Problem Based Learning/Seminar and Internships	Project Based Learning - I (Sensors and Actuators Lab)	1
	Programme Major	Digital Electronics	4
Ш	Programme Foundation	Probability and Statistics	4
III Programme Foundation		Signals and Systems	4
		Total	22

Semester	Course Type	Course Name / Course Title	Total Credits
IV	University Electives	UE-III	3
IV	University Core	Rural Immersion	1
IV	Programme Capstone Project/Problem Based Learning/Seminar and Internships		1
IV	University Core	Life Transformation Skills	1
IV	Programme Capstone Project/Problem Based Learning/Seminar and Internships	Data Structures and Algorithms	2
IV	Programme Major	Analog Circuits and Applications	4
IV	Programme Major	Communication Systems	4
IV	Programme Major	Control Systems	3
IV	Programme Major	Microcontroller and Applications	4
		Total	23

V	University Core Managing Conflicts Peacefully: Tools and Techniques		2
V	Programme Capstone Project/Problem Based Learning/Seminar and Internships	Project Based Learning - III (Data Science Lab)	1
V	Programme Electives	Programme Elective	4
V	Programme Foundation	IKS-2	2
V	Programme Major	Digital Communication	4
V	Programme Major	Power Converters and Machines	4
V	Programme Major	Digital Signal Processing	4
V	Programme Major	Simulation Lab (OOP)	1
		Total	22

Semester	Course Type	Course Name / Course Title	Total Credits
VI	Programme Capstone Project/Problem Based Learning/Seminar and Internships	Project Based Learning - IV (Mini Project)	1
VI	University Core	National Academic Immersion	2
VI	Programme Electives	es Programme Elective	
VI	Programme Major	Artificial Intelligence and Machine Learning	4
VI	Programme Major	Computer Network and Security	4
VI	Programme Major	VLSI Design	4
VI	Programme Capstone Project/Problem Based Learning/Seminar and Internships	Seminar	1
		Total	20

VII	Programme Electives	Programme Elective	4
VII	Programme Capstone Project/Problem Based Learning/Seminar and Internships	Internship	12
		Total	16

VIII	Programme Electives	Programme Elective	4
VIII	Programme Capstone Project/Problem Based Learning/Seminar and Internships	Capstone Project	13
		Total	17

## Professional Programme Electives

Semester	Course Name / Course Title	Total Credits
V	Electromagnetics and Radiating Systems	4
V	Artifical Neural Networks	4
V	Embedded Systems and RTOS	4
V	Computer Vision	4
VI	Wireless Sensor Networks	4
VI	Natural Language Processing	4
VI	Battery Management Systems	4
VI	Digital CMOS Design	4
VI	Mechatronics	4
VII	Wireless Comunication	4
VII	Optimization Techniques	4
VII	Automotive Software Engineering	4
VII	Testing and Testability	4
VII	Digital Control Systems	4
VIII	Broadband Communication Systems	4
VIII	Edge Intelligence	4
VIII	Automotive Electronics	4
VIII	Analog VLSI Design	4
VIII	Robotics and Automation	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.