



D Y PATIL

DEEMED TO BE

UNIVERSITY

SCHOOL *of* ENGINEERING
& MANAGEMENT
KOLHAPUR

B. Tech. Computer Science Engineering

Structure

F.Y. B. Tech Computer Science & Engineering Structure 2024-25

SEMESTER – I												
Course Category	Course Type	Course Name	Credits	Teaching Scheme			Theory			Practical		Total Marks
				L	P	T	ISE	MSE	ESE	INT	OE/ PoE	
Basic Sciences	BSC	Linear Algebra & Calculus	4	3	-	1	20	30	50	25	-	125
	BSC	Applied Physics	4	3	2	-	20	30	50	25	-	125
Engineering Science	ESC	Problem Solving through Programming	4	3	2	-	20	30	50	25	-	125
	ESC	Digital Logic Design	4	3	2	-	20	30	50	25	-	125
Vocational Skills Enhancement Course	VSEC	Design Thinking Through Innovation	2	1	2	-	25	-	-	25	-	50
Indian Knowledge System	IKS	Historical Places in and Around Kolhapur District	2	2	-	-	20	30	-	-	-	50
Co-Curricular Activities	CCA	Liberal Learning – I	2	-	4	-	-	-	-	50	-	50
Mandatory Course	MC	Finishing School Training - I	-	3	-	-	50	-	-	-	-	Grade
		Rural/Social Internship	-	-	-	-	-	-	-	50	-	Grade
		Total	22	15	12	1	175	150	200	225	-	650
SEMESTER – II												
Basic Sciences	BSC	Differential Equations & Numerical Techniques	4	3	-	1	20	30	50	25	-	125
	BSC	Applied Chemistry	4	3	2	-	20	30	50	25	-	125
Engineering Science	ESC	Generative AI	4	3	2	-	20	30	50	25	-	125
Ability Enhancement Course	AEC	Professional Communication	2	1	2	-	25	-	-	25	-	50
Co-Curricular Activities	CCA	Liberal Learning - II	2	-	4	-	50	-	-	-	-	50
Program Core Courses	PCC	Elementary Data Structures & Algorithms	2	2	-	-	-	-	50	-	-	50
Vocational Skills Enhancement Cours	VSEC	Python Programming	2	1	2	-	25	-	-	25	-	50
Mandatory Course	MC	Capstone Project	-	-	-	-	-	-	-	50	-	Grade
		Finishing School Training - II	-	3	-	-	50	-	-	-	-	Grade
		Total	20	13	12	1	210	90	200	175	-	575

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SCHOOL OF ENGINEERING AND MANAGEMENT
Teaching and Evaluation Scheme from Year 2024-25 (as per NEP-2020)
B. Tech. Computer Science Engineering (SEMESTER- III)

B. Tech. Computer Science Engineering (SEMESTER-III)													
Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	Contact Hrs			ISE	MSE	ESE	INT	OE/ PoE	
					L	P	T						
1	24CSEU3P01	PCC	Discrete Mathematical Structures	3	3	-	-	20	30	50	-	-	100
2	24CSEU3P02	PCC	Computer Networks	3	3	-	-	20	30	50	-	-	100
3	24CSEU3P03	PCC	Computer Networks Lab	1	-	2	-	-	-	-	25	25	50
4	24CSEU3P04	PCC	Data Structures & Algorithms	3	2	2	-	-	-	-	50	50	100
5	24CSEU3M06	MDM-I	Software Engineering	2	2	-	-	-	-	50	-	-	50
6	24CSEU3O09	OEC-I \$	Fundamentals of Object Oriented Programming\$	3	3	-	-	20	30	50	-	-	100
7	24CSEU3O10	OEC-I \$	Fundamentals of Object Oriented Programming Lab \$	1	-	2	-	-	-	-	25	-	25
8	24CSEU3F05	CEP/FP	Community Engagement Project	2	-	4	-	-	-	-	25	25	50
9	24CSEU3V08	VEC	Environmental Studies-I	2	2	-	-	-	-	50	-	-	50
10	24CSEU3H10	HSSM	Intellectual Property Rights	2	2	-	-	-	-	50	-	-	50
11	24CSEU3D11	AC	Finishing School Training - III	-	2*	-	-	-	-	-	50*	-	
12	24CSEU3C12	AC	Liberal Learning	-	2*	-	-	-	-	-	50*	-	
Total				22	17	10	0						675

Note:

\$ - Open & Distance Learning

* - Values are not included in total marks

Min. Marks for Passing: 40% of total marks of individual course



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SCHOOL OF ENGINEERING AND MANAGEMENT
Teaching and Evaluation Scheme from Year 2024-25 (as per NEP-2020)
B. Tech. Computer Science Engineering (SEMESTER- IV)

B. Tech. Computer Science Engineering (SEMESTER-IV)													
Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	Contact Hrs			ISE	MSE	ESE	INT	OE/ PoE	
					L	P	T						
1	24CSEU4P01	PCC	Theory of Computation	3	3	-	-	20	30	50	-	-	100
2	24CSEU4P02	PCC	Operating Systems	3	3	-	-	20	30	50	-	-	100
	24CSEU4P03	PCC	Operating Systems Lab	1	-	2	-	-	-	-	25	25	50
3	24CSEU4P04	PCC	Object Oriented Programming	3	2	2	-	-	-	-	50	50	100
4	24CSEU4M05	MDM-II	Software Testing	2	2	-	-	--	-	50	-	-	50
5	24CSEU4O06	OEC-II	E-Commerce and Digital Marketing	2	2	-	-	-	-	50	-	-	50
6	24CSEU4A07	AEC	Trending Technology Laboratory	2	-	4	-	-	-	-	25	25	50
7	24CSEU4N08	VSEC	Web Technology-I	2	1	2	-	-	-	-	50	-	50
8	24CSEU4V09	VEC	Environmental Studies-II	2	2	-	-	-	-	50	-	-	50
9	24CSEU4H10	HSSM	Project Management Tools and Startup Ventures	2	1	2	-	-	-	-	50	-	50
10	24CSEU4D11	AC	Finishing School Training - IV	-	2*	-	-	-	-	-	50*	-	
11	24CSEU4C12	AC	Liberal Learning	-	2*	-	-	-	-	-	50*	-	
Total				22	16	12	0						650

HONORS

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	L	P	T	ISE	MSE	ESE	INT	OE/PoE	
1	24CSEU4Z01	Honors	Mathematical Foundations for AI/ML	3	3	-	-	20	30	50	-	-	100
2	24CSEU4Z01	Honors	Mathematical Foundations for AI/ML	1	-	2	-	-	-	-	25	-	25
3	24CSEU4Z03	Honors	Fundamentals of Cyber Security	3	3	-	-	20	30	50	-	-	100
4	24CSEU4Z04	Honors	Fundamentals of Cyber Security Lab	1	-	2	-	-	-	-	25	-	25

Note:

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Min. Marks for Passing: 40% of total marks of individual course



D. Y. PATIL DEEMED TO BE UNIVERSITY
SCHOOL OF ENGINEERING AND MANAGEMENT
Teaching and Evaluation Scheme from Year 2023-24 (as per NEP-2020)
B. Tech. Computer Science Engineering (SEMESTER- V)

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	Contact Hrs			ISE	MSE	ESE	INT	OE/ PoE	
					L	P	T						
1	23CSEU5P01	PCC	Database Engineering	3	3	-	-	20	30	50	-	-	100
2	23CSEU5P02	PCC	Database Engineering Lab	1	-	2	-	-	-	-	25	25	50
3	23CSEU5P03	PCC	Information Security	3	3	-	-	20	30	50	-	-	100
4	23CSEU5P04	PCC	Smart Phone Application Development	3	2	2	-	-	-	-	25	25	50
5	23CSEU5P05	PCC	Software Engineering	2	2	-	-	20	30	50	-	-	100
6	23CSEU5M06	MDM-III	Test Driven Development	3	3	-	-	20	30	50	-	-	100
7	23CSEU5M07	MDM-III	Test Driven Development Lab	1	-	2	-	-	-	-	25	-	25
8	23CSEU5E08	PEC-I	Internet of Things	3	3	-	-	20	30	50	-	-	100
9	23CSEU5E09		Computer Graphics and Multimedia Techniques										
10	23CSEU5E10		Principles of AI/ML										
11	23CSEU5E11	PEC-I	Internet of Things Lab	1	-	2	-	-	-	-	25	-	25
12	23CSEU5E12		Computer Graphics and Multimedia Techniques Lab										
13	23CSEU5E13		Principles of AI/ML Lab										
14	23CSEU5O14	OEC-III	Cloud Computing	2	2	-	-	-	-	50	-	-	50
15	23CSEU5D15	AC	Liberal Learning	-	2*	-	-	-	-	-	50*	-	
16	23CSEU5D16	AC	Finishing School Training - V	-	2*	-	-	-	-	-	50*	-	
Total				22	18	8	0						700

HONORS

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	L	P	T	ISE	MSE	ESE	INT	OE/PoE	
1	23CSEU5Z01	Honors	Introduction to AI/ML	3	3	-	-	20	30	50	-	-	100
2	23CSEU5Z02	Honors	Introduction to AI/ML Lab	1	-	2	-	-	-	-	25	-	25
3	23CSEU5Z03	Honors	Data Security Systems	3	3	-	-	20	30	50	-	-	100
4	23CSEU5Z04	Honors	Data Security Systems Lab	1	-	2	-	-	-	-	25	-	25

Note:

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* - Values are not included in total marks

Min. Marks for Passing: 40% of total marks of individual course

D. Y. PATIL DEEMED TO BE UNIVERSITY SCHOOL OF ENGINEERING AND MANAGEMENT Teaching and Evaluation Scheme from Year 2023-24 (as per NEP-2020) B. Tech. Computer Science Engineering (SEMESTER- VI)													
Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	Contact Hrs			ISE	MSE	ESE	INT	OE/ PoE	
					L	P	T						
1	23CSEU6P01	PCC	System Programming	3	3	-	-	20	30	50	-	-	100
2	23CSEU6P02	PCC	Cloud Computing	3	3	-	-	20	30	50	-	-	100
3	23CSEU6P03	PCC	Cloud Computing Lab	1	-	2	-	-	-	-	25	25	50
4	23CSEU6P04	PCC	Web Technology-II	3	2	2	-	-	-	-	50	50	100
6	23CSEU6M05	MDM-IV	Web Testing	2	2	-	-	-	-	-	50	-	50
7	23CSEU6E06	PEC-II	Programming Paradigms	3	3	-	-	20	30	50	-	-	100
8	23CSEU6E07		Ethical Hacking										
9	23CSEU6E08		Image Processing										
10	23CSEU6E09	PEC-II	Programming Paradigms Lab	1	-	2	-	-	-	-	25	-	25
11	23CSEU6E10		Ethical Hacking Lab										
12	23CSEU6E11		Image Processing Lab										
13	23CSEU6E12	PEC-III	FOSS Tools	3	3	-	-	20	30	50	-	-	100
14	23CSEU6E13		Blockchain Technology										
15	23CSEU6E14		Augmented Reality/ Virtual Reality										
16	23CSEU6E15	PEC-III	FOSS Tools Lab	1	-	2	-	-	-	-	25	-	25
17	23CSEU6E16		Blockchain Technology Lab										
18	23CSEU6E17		Augmented Reality/ Virtual Reality Lab										
19	23CSEU6N18	VSEC	Project Management Tools	2	1	2	-	-	-	-	25	25	50
20	23CSEU6D19	AC	Liberal Learning	-	2*	-	-	-	-	-	50*	-	
21	23CSEU6D20	AC	Finishing School Training - VI	-	2*	-	-	-	-	-	50*	-	
Total				22	17	10							700

HONORS

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	L	P	T	ISE	MSE	ESE	INT	OE/PoE	
1	23CSEU6Z01	Honors	Artificial Neural Networks	3	3	-	-	20	30	50	-	-	100
2	23CSEU6Z02	Honors	Artificial Neural Networks Lab	1	-	2	-	-	-	-	25	-	25
3	23CSEU6Z03	Honors	Ethical Hacking	3	3	-	-	20	30	50	-	-	100
4	23CSEU6Z04	Honors	Ethical Hacking Lab	1	-	2	-	-	-	-	25	-	25

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