

Course Structure for B.Tech. (Computer Science and Engg)
Based on NEP-2020, CBCS and OBE, Effective from 2024-2025

265
06/01/25

		THEORY						
III.1	THIRD	PC/P E	MA24205	Discrete Mathematics	3	0	0	3
III.2			EC24203	Digital System Design	3	0	0	3
III.3			CS24201	Data Structures	3	1	0	4
III.4			CS24203	Object Oriented Programming and Design Pattern	3	0	0	3
III.5			CS24205	Computer Organization and Architecture	3	0	0	3
III.6		HSS	MT24131	UHV-II: Understanding Harmony	3	0	0	3
LABORATORIES								
III.7		PC/P E	EC24204	Digital System Design Lab	0	0	2	1
III.8			CS24202	Data Structures Lab	0	0	3	1.5
III.9			CS24204	OOPDP Lab	0	0	3	1.5
III.10	MC	MC24 201/202/ 203/204 / 205	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA) / Entrepreneurship	0	0	2	1	
TOTAL (Theory + Labs)								24
		THEORY						
IV.1	FOURTH	PC/P E	CS24211	Data Base Management System	3	1	0	4
IV.2			CS24215	Operating System	3	1	0	4
IV.3			CS24213	Design and Analysis of Algorithm	3	0	0	3
IV.4			CS24219	Formal Language and Automata Theory	3	0	0	3
IV.5		PE	XX24XXX /MO24201	Open Elective - I / MOOC - I	3	0	0	3
IV.6		FS	MA24201	Numerical Methods	2	0	0	2
IV.7		MC	HS24211	Indian Knowledge System	2	0	0	0
LABORATORIES								
IV.8		PC/P E	CS24216	Shell & Kernel	0	0	3	1.5
IV.9			CS24212	DBMS Lab	0	0	3	1.5
IV.10	MA24202		Numerical Methods Lab	0	0	2	1	
IV.11	MC24 206/ 207/ 208 / 209/ 210		Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA) / Entrepreneurship	0	0	2	1	
IV.12	MC	CS24216	Shell & Kernel	0	0	3	1.5	
TOTAL (Theory + Labs)								24
GRAND TOTAL FOR SECOND YEAR								48
		THEORY						
V.1	FIFTH	PC/P E	CS24301	Compiler Design	3	0	0	3
V.2			CS24303	Data Mining Concepts and Techniques	3	0	0	3
V.3			CS24XXX	PE-I	3	0	0	3
V.4			CS24XXX	PE-II	3	0	0	3
V.5		OE	XX24XXX / MO24301	Open Elective - II / MOOC - II	3	0	0	3
LABORATORIES								
V.6		PC	CS24302	Compiler Design Lab	0	0	3	1.5
V.7		PC	CS24306	Basic IT Workshop	0	0	3	1.5
V.8		PC	CS24304	Data Mining Concepts and Techniques lab	0	0	3	1.5
V.9		PE	CS24XXX	PE- II Lab	0	0	3	1.5
V.10	PC	CS24300	Project - I				2	
TOTAL (Theory + Labs)								23

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SIXTH		THEORY						
		PC/ PE	CS24311	Data Communication and Computer Networks	3	0	0	3
			CS24313	Artificial Intelligence and Machine Learning	3	0	0	3
			CS24XXX	PE-III	3	0	0	3
			CS24315	Digital Image Processing	3	0	0	3
		OE	XX24XXX /MO24303	Open Elective - III / MOOC - III	3	0	0	3
		HSS	MT24304	Constitution of India	2	0	0	0
		LABORATORIES						
		PC	CS24312	Data Communication and Computer Networks Lab	0	0	3	1.5
			CS24314	Artificial Intelligence and Machine Learning Lab	0	0	3	1.5
			CS24318	Embedded Systems	0	0	3	1.5
			CS24316	Digital Image Processing Lab	0	0	3	1.5
CS24350	Project - II					2		
HSS	HS24133	Communication Skill - II	0	0	3	1.5		
TOTAL (Theory + Labs)								24.5
GRAND TOTAL FOR THIRD YEAR								47.5
SEVENTH		THEORY						
		OE	XX24XXX / MO24401	Open Elective - IV / MOOC - IV	3	0	0	3
		PE	CS24XXX	PE-IV	3	1	0	4
		PE	CS24XXX	PE-V	3	1	0	4
		LABORATORIES						
		MC	MC24400	Summer Training (Minimum Four Weeks / 160 Hrs)				4
		PE	CS24XXX	PE Lab-IV	0	0	3	1.5
		PE	CS24XXX	PE-Lab V	0	0	3	1.5
VII.7	PC	CS24400	Project - III				3	
TOTAL (Theory + Labs)								21
EIGHTH		PC/P E	CS24450/ CS24490	Project-IV / Industry Internship				6
			CS24498	Comprehensive Viva				1
TOTAL (Theory + Labs)								7
GRAND TOTAL FOR FOURTH YEAR								28
GRAND TOTAL FOR B.TECH.								168

Head
Computer Science and Engineering

Dean (UGS)