

Department of Computer Science and Engineering

1st year 2nd year 3rd year 4th year

CURRICULUM OF B.TECH. 1ST YEAR ***

SR. NO. COURSE TITLE COURSE CODE TAUGHT BY

1. Engineering Mathematics-1 ASM101 Department Of Applied Mathematics & Humanities
2. Engineering Physics ASP102ABC Department Of Applied Physics
3. Engineering Chemistry ASC103ABC Department Of Applied Chemistry
4. Engineering Mechanics AMD104ABC Department Of Applied Mechanics
5. Engineering Drawing CIME105ABC Department Of Civil Engineering & Department Of Mechanical Engineering
6. Basics of Civil & Environmental Engineering CICH106ABC Department Of Civil Engineering & Department Of Chemical Engineering
7. Engineering Mathematics II ASM201 Department Of Applied Mathematics & Humanities
8. Electro-Techniques ELE207ABC Department Of Electrical Engineering
9. Fundamentals of Computer and Programming COM208ABC Department of Computer Science and Engineering
10. Basics of Electronics Engineering ECE209ABC Department Of Electronics Engineering
11. Basic Mechanical Systems MED210ABC Department Of Mechanical Engineering
12. English & Communication Skills ASE211ABC Department Of Applied Mathematics & Humanities
13. Workshop Practice MED212ABC Department Of Mechanical-Production Engineering

*** Subjects to be completed within two semesters.

2ND YEAR

CS – Core Subject IS – Interdisciplinary Subject

Communication Systems

(EC Dept.) EC208 5 3 1 2 100 25 50 175

4. IS-2

Control System

(EE Dept.) EE212 4 3 0 2 100 0 50 150

5. IS-3

Engineering Mathematics-III

(Maths Dept.) MH210 4 3 1 0 100 25 0 125

6. Software Tools - II CO206 2 0 0 3 0 0 0 50 50

TOTAL 24 15 4 9 500 100 200 800

CONTACT HOURS PER WEEK 28

L* = Lecture, T* = Tutorial/Seminar, P* =Practical/Project

3RD YEAR

CURRICULUM OF B.TECH. 3RD YEAR - (5TH SEMESTER)

SR. NO.	COURSE TITLE	CODE	CREDITS	TEACHING SCHEME (HOURS)				EXAMINATION	
	SCHEME (MARKS)	TOTAL		L*	T*	P*			
1.	CS-1								
	Microprocessor and Interfacing Techniques	CO301	5	3	1	2	100	25	
	50 175								
2.	CS-2								
	Design and Analysis of Algorithms	CO303	4	3	1	0	100	25	0
	125								
3.	CS-3								
	Artificial Intelligence and Machine Learning	CO305	5	3	1	2	100	25	
	50 175								
4.	CS-4								
	Computer Networks	CO307	5	3	1	2	100	25	50 175
5.	EIS - I	CO3XX	3	3	0	0	100	0	0 100
6.	Software Tools - III	CO309	2	0	0	3	0	0	0 50 50
TOTAL	24	15	4	9	500	100	200	800	
CONTACT HOURS PER WEEK				28					

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CURRICULUM OF B.TECH. 3RD YEAR - (6TH SEMESTER)

SR. NO.	COURSE TITLE			CODE	CREDITS			TEACHING SCHEME (HOURS)				EXAMINATION		
	SCHEME (MARKS)				TOTAL	L*	T*	P*	L*	T*	P*			
1.	CS-1													
	Operating Systems			CO302	5	3		1	2	100	25	50	175	
2.	CS-2													
	Systems Software			CO304	5	3		1	2	100	25	50	175	
3.	CS-3													
	Computer Graphics			CO306	5	3		1	2	100	25	50	175	
4.	CS-4													
	Internet Technology and Applications													
	150			CO308	4			4	3	0	2	100	0	50
5.	EIS - II	CO3XX	3		3	0		0		100	0	0	100	
6.	Software Tools - IV			CO310	2			0	0	3	0	0	50	50
TOTAL	24	15	3		11	500	75	250		825				
CONTACT HOURS PER WEEK						29								

L* = Lecture, T* = Tutorial/Seminar, P* =Practical/Project

SEMESTER - 5

LIST OF ELECTIVES EIS-I: Information Security (CO319)

Digital Signal Processing(CO311)

Object Oriented System (CO313)

Information Theory and Coding (CO315)

User Interface (CO317)

SEMESTER - 6

LIST OF ELECTIVES EIS-II: Wireless Networks (CO312)

Data Science (CO314)

Logic and Functional Programming (CO316)

Advanced Microprocessors (CO318)

Parallel Processing and Architecture (CO322)

4TH YEAR

CS – Core Subject IS – Interdisciplinary Subject

ES – Elective Subject (for department only) EIS – Elective Interdisciplinary Subject

CURRICULUM OF B.TECH. 4TH YEAR - (7TH SEMESTER)

SR. NO.	COURSE TITLE			CODE	CREDITS			TEACHING SCHEME (HOURS)				EXAMINATION	
	SCHEME (MARKS)				TOTAL								
L*	T*	P*	L*	T*	P*	L*	T*	P*	L*	T*	P*	L*	T*
1.	CS-1												
	Software Engineering			CO401	5	3	1	2	100	25	50	175	
2.	CS-2												
	Cryptography and Network Security			CO403	5	3	1	2	100	25	50	125	
3.	CS-3												
	Principles of Programming Language			CO405	4	3	0	2	100	0	50	150	
4.	Elective - I(ES)			CO4XX	4	3	1	0	100	25	0	125	
5.	CS-4												
	Project Preliminaries			CO407	2	0	0	4	0	0	100	100	
6.	CS-5												
	Seminar			CO409	1	0	0	2	0	0	50	50	
TOTAL	21	12	3		12	400	75	300	775				
CONTACT HOURS PER WEEK					27								

L* = Lecture, T* = Tutorial/Seminar, P* = Practical/Project

CURRICULUM OF B.TECH. 4TH YEAR - (8TH SEMESTER)

SR. NO.	COURSE TITLE			CODE	CREDITS			TEACHING SCHEME (HOURS)				EXAMINATION	
	SCHEME (MARKS)				TOTAL								
L*	T*	P*	L*	T*	P*	L*	T*	P*	L*	T*	P*	L*	T*
1.	CS-1												
	Distributed Algorithms			CO402	5	3	1	2	100	25	50	175	
2.	IS-1												
	Economics and Business Management												
(ASH)	MH402			3	3	0	0	100	0	0	100		

3.	EIS - I	CO4XX	3	3	0	0	100	0	0	100
4.	EIS - II	CO4XX	4	3	1	0	100	25	0	125
5.	Project	CO404	6	0	0	12	0	0	300	300
TOTAL	21	12	2	14	400	50	350	800		
CONTACT HOURS PER WEEK				28						

L* = Lecture, T* = Tutorial/Seminar, P* = Practical/Project

SEMESTER - 7

LIST OF ELECTIVE ES - I:

Advanced Operating Systems (CO413)

Data warehousing and Mining (CO415)

Optimization Methods (CO417)

Embedded Systems (CO419)

Security In Resources Constrained Environments And IOT (CO421)

SEMESTER - 8

LIST OF ELECTIVES EIS-I: Network & System Security (CO406)

Multimedia Systems (CO408)

Soft Computing (CO410)

Secure Software Engineering (CO412)

System Analysis and Simulation (CO414)

SEMESTER - 8

LIST OF ELECTIVES EIS-II: Video Codec Standards and Design(CO418)

Advanced Compilers Design(CO424)

Natural Language Processing (CO426)

Cloud Computing (CO428)