COURSE STRUCTURE
Department of Computer Science and Engineering

I Year I Semester

S.No.	Category	Course Code	Course Title	Hours per week			Credits
				L	T	P	C
1	HSM	24AENG11T	English for Engineers	3	0	0	3
2	BS	24APHY11T	Applied Physics	3	0	0	3
3	BS	24AMAT11T	Matrix Theory and Calculus	3	0	0	3
4	ES	24ACSE11T	Computational Problem Solving	3	0	0	3
5	ES	24AMEC12L	Engineering and IT Workshop	1	0	2	3
6	HSM	24AENG11L	English Language Communication Skills Lab	0	0	2	1
7	BS	24APHY11L	Applied Physics Lab	0	0	2	1
8	ES	24ACSE11L	Computational Problem-Solving Lab	0	0	2	1
9	HSM	24ALAN11T	Language Elective	1	0	0	1
						Total Credits	**19**

I Year II Semester

S. No.	Category	Course Code	Course Title	Hours per week			Credits
				L	T	P	C
1	BS	24ACHE21T	Chemistry	3	0	0	3
2	BS	24AMAT21T	Differential Equations and Transform Techniques	3	0	0	3
3	BS	24AEEE21T	Basic Electrical and Electronics Engineering	3	0	0	3
4	ES	24ACSE21T	Data structures	3	0	3	3
5	ES	24ACSE22T	The Joy of Computing using Python	3	0	0	3
6	ES	24AMEC21T	Engineering Drawing	1	0	4	3
7	BS	24ACHE21L	Chemistry Lab	0	0	2	1
8	BS	24AEEE21L	Basic Electrical and Electronics Engineering Lab	0	0	2	1
9	ES	24ACSE21L	Data Structures Lab	0	0	2	1
						Total Credits	**21**

II Year I Semester

S.No.	Category	Course Code	Course Title	Hours per week			Credits
				L	T	P	C
1	BS	24AMAT33T	Discrete Mathematics	3	0	0	3
2	HSM	24AMBA32T	Management Science	3	0	0	3
3	PC	24ACSE31T	Advanced Data structures and algorithm analysis	3	0	0	3
4	PC	24ACSE32T	Object Oriented Programming Using Java	3	0	0	3
5	PC	24ACSE33T	Digital Logic Design and Computer Organization	3	0	0	3
6	PC	24ACSE31L	Advanced Data structures and algorithm analysis Lab	0	0	3	1.5
7	PC	24ACSE32L	Object Oriented Programming Using Java Lab	0	0	3	1.5
8	PC	24ACSE33L	Digital Logic Design and Computer Organization Lab	0	0	3	1.5
9	SEC	24ACSE34L	Full Stack Development	1	0	2	2
10	MC	24AENS31T	Environmental Science	2	0	0	0
						Total credits	**21.5**

Category	Credits
Basic Science course	3
Professional core Courses	13.5
Humanities Sciences	3
Skill oriented course	2
Total Credits	**21.5**

II Year II Semester

S.No.	Category	Course Code	Course Title	Hours per week			Credits
				L	T	P	C
1	PC	24ACSE41T	Database Management Systems	3	0	0	3
2	PC	24ACSE42T	Software Engineering	3	0	0	3
3	PC	24ACSE43T	Operating Systems	3	0	0	3
4	BS	24AMAT41T	Probability and Statistics	3	0	0	3
5	HSM	24AUHV41T	Universal Human Values-II	3	0	0	3
6	PC	24ACSE41L	Database Management Systems Lab	0	0	3	1.5
7	PC	24ACSE42L	Software Engineering Lab	0	0	3	1.5
8	PC	24ACSE43L	Operating Systems Lab	0	0	3	1.5
9	SEC	24ACSE44L	Advanced Java Programming	1	0	2	2
Total credits							21.5
Internship 2 Months (Mandatory) during summer vacation							

Category	Credits
Basic Science Courses	3
Professional core Courses	13.5
Humanities Sciences	3
Skill oriented course	2
Total Credits	**21.5**

Semester V (Third year)

Sl. No.	Category	Course Code	Course Title	Hours per week			Credits
				L	T	P	C
1	PC	24ACSE51T	Artificial Intelligence	3	0	0	3
2	PC	24ACSE52T	Computer Networks	3	0	0	3
3	PC	24ACSE53T	Data Mining	3	0	0	3
4	PE	24ACSE5AT	Software Testing Methodologies	3	0	0	3
		24ACSE5BT	Object Oriented Analysis and Design				
		24ACSE5CT	Microprocessors and Microcontrollers				
		24ACSE5DT	Quantum Computing				
5	OE	-	MOOC	3	0	0	3
6	PC	24ACSE51L	Artificial Intelligence Lab	0	0	3	1.5
7	PC	24ACSE52L	Computer Networks Lab	0	0	3	1.5
8	PC	24ACSE53L	Data Mining Lab	0	0	3	1.5
9	MC	24AENG51T	Gender Sensitization	2	0	0	0
10	Internship	24ACSE56I	Summer Internship 2 Months after second Year (to be evaluated during V Semester)	0	0	0	2
						Total Credits	**21.5**

Semester VI (Third year)

Sl. No.	Category	Course Code	Course Title	Hours per week			Credits
				L	T	P	C
1	PC	24ACSE61T	Automata Theory and Compiler Design	3	0	0	3
2	PC	24ACSE62T	Machine Learning	3	0	0	3
3	PC	24ACSE63T	Internet of Things	3	0	0	3
4	PE	24ACSE6AT	Software Project Management	3	0	0	3
		24ACSE6BT	Cloud Computing				
		24ACSE6CT	Natural Language Processing				
		24ACSE6DT	Design Patterns				
5	OE	-	MOOC	3	0	0	3
6	PC	24ACSE61L	Compiler Design Lab	0	0	3	1.5
7	PC	24ACSE62L	Machine Learning Lab	0	0	3	1.5
8	PC	24ACSE63L	Internet of Things Lab	0	0	3	1.5
9	SEC	24AENG61S	Soft skills	1	0	2	2
10	MC	24AMBA61T	Technical Paper Writing and IPR	2	0	0	0
						Total Credits	**21.5**

Semester VII (Fourth year)

Sl. No	Category	Course Code	Course Title	Hours per week			Credits
				L	T	P	C
1	PC	24ACSE71T	Deep Learning	3	0	0	3
2	PE	24ACSE7AT	Computer Vision	3	0	0	3
		24ACSE7BT	Soft Computing				
		24ACSE7CT	Generative AI				
		24ACSE7DT	Social Network Analysis				
3	PE	24ACSE7ET	Cryptography & Network Security	3	0	0	3
		24ACSE7FT	Ethical Hacking				
		24ACSE7GT	Block Chain Technology				
		24ACSE7HT	Cyber Laws				
4	PE	24ACSE7IT	Data Science	3	0	0	3
		24ACSE7JT	Data Visualization				
		24ACSE7KT	Big Data Analytics				
		24ACSE7LT	Exploratory Data Analytics with Python				
5	OE	24ACSE7MT	Distributed Operating Systems	2	0	2	3
		24ACSE7NT	Embedded System Design				
		24ACSE7OT	Mobile Adhoc Networks				
		24ACSE7PT	DevOps				
6	OE	24ACIV7MT	Disaster Management	3	0	0	3
		24ACIV7NT	Water Resources and Harvesting				
		24AEEE7UT	Electric Vehicles				
		24AEEE7TT	Sustainable Energy Sources				
		24AMEC7HT	Optimization Techniques				
		24AMEC7GT	Entrepreneurship Development				
		24AECE7VT	Introduction to Image Processing				
		24AECE7TT	Introduction to Communications Systems				
		24AMBA71T	Human Resource Management				
		24AMBA7T	Startup Management				
		24AENG71T	English for Competitive Examinations				
		24AMAT71T	Numerical Methods				
		24APHY71T	Smart Materials and Devices				
		24ACHE71T	Chemistry of Energy Systems				
7	SEC	24ACSE72S	Prompt Engineering	1	0	2	2
8	Internship	24ACSE71I	Industrial/Research Internship 2 Months after third year (to be evaluated during VII semester)	0	0	0	2
						Total credits	**22**

Semester VIII (Fourth year)

Sl. No.	Category	Course Code	Course Title	Hours per week			Credits
				L	T	P	C
1	PROJ	24ACSE8IP	Project work, seminar and internship in industry Internship (6 months)	-	-	-	12
			Total credits				**12**

TOTAL CREDITS DISTRIBUTION

S.NO	Category	CSE
1	BS	20
2	MC	0
3	ES	24.5
4	PC	52.5
5	PE	15
6	OE	12
7	HSM	12
8	SEC	8
9	Internship	4
10	PROJ	12
	Total	**160**