

Bachelor of Computer Science & Engineering (CSUG)

Prog	S. No.	Sem	Course Code	Course	L	T	P	Credit	Total Credit	Cumm Credit
CSUG	1	3	3CS103	Data Structures and Algorithms	3	1	0	4		
CSUG	2	3	3CS105	Object Oriented Methodology	3	1	0	4		
CSUG	3	3	3CS106	Programming lab	0	0	3	1		
CSUG	4	3	3EC103	Digital Logic and Circuits	3	1	0	4		
CSUG	5	3	3EC104	Digital logic and Circuits Lab	0	0	3	1		
CSUG	6	3	3PH103	Materials Science & Technology	3	0	0	3		
CSUG	7	3	3CH105	Bio Science	3	0	0	3		
CSUG	8	3	3MA106	Discrete Mathematical Structure	3	0	0	3		
				Semester Total	18	3	6	23	23	68
CSUG	1	4	4CS107	Computer Organization & Architecture	3	1	0	4		
CSUG	2	4	4CS109	Database Management Systems	3	1	0	4		
CSUG	3	4	4CS110	Database Management Systems Lab	0	0	3	1		
CSUG	4	4	4CS111	Formal Languages & Automata Theory	3	1	0	4		
CSUG	5	4	4CS112	UNIX Admin and Shell Programming Lab	0	0	3	1		
CSUG	6	4	4CH104	Green Technology (Environmental Science)	3	0	0	3		
CSUG	7	4	4MA109	Linear Algebra	3	0	0	3		
CSUG	8	4	4GE105	EAA - I NSS				0		
				Semester Total	15	3	6	20	20	88
CSUG	1	5	5CS113	Compiler Design	3	0	0	3		
CSUG	2	5	5CS114	Compiler Design lab	0	0	3	1		
CSUG	3	5	5CS115	Operating Systems	3	1	0	4		
CSUG	4	5	5CS116	Operating Systems lab	0	0	3	1		
CSUG	5	5	5CS117	Graph Theory & Combinatorics	3	1	0	4		
CSUG	6	5	5EE125	Microprocessor & Microcontrollers	3	1	0	4		
CSUG	7	5	5EE126	Microprocessor & Microcontrollers lab	0	0	3	1		
CSUG	8	5	5xx1xx	Engineering Elective - I	3	0	0	3		

				Semester Total	15	3	9	21	21	109	
CSUG	1	6	6CS119	Computer Networks	3	1	0	4			
CSUG	2	6	6CS120	Computer Networks lab	0	0	3	1			
CSUG	3	6	6CS121	Software Engineering	3	1	0	4			
CSUG	4	6	6CS122	Software Engineering lab	0	0	3	1			
CSUG	5	6	6CS123	Design & Analysis of Algorithms	3	1	0	4			
CSUG	6	6	6CS191	Minor Project-I	0	0	3	1			
CSUG	7	6	6CS1xx	Departmental Elective- I	3	0	0	3			
CSUG	8	6	6xx1xx	Engineering Elective - II	3	0	0	3			
CSUG	9	6	6GE103	Industrial Interaction & Soft Skill Development				0			
CSUG	10	6	6GE106	EAA - II NSS				0			
				Semester Total	15	3	9	21	21	130	
CSUG	1	7	7CS1xx	Departmental Elective - II	3	0	0	3			
CSUG	2	7	7CS1xx	Departmental Elective – III	3	0	0	3			
CSUG	3	7	Xx1xx	Engineering -III/ HSS/ Science/ Department (Elective)	3	0	0	3			
CSUG	4	7	7Xx1xx	Engineering -IV/ HSS/ Science/ Department (Elective)	3	0	0	3			
CSUG	5	7	7CS193	Minor Project-II	0	0	6	2			
CSUG	6	7	7CS192	Industrial Training (4 to 6 weeks after 6 th Sem)				1			
CSUG	7	7	7CS194	General Seminar	0	0	6	2			
				Semester Total	12	0	12	17	17	147	
CSUG	1	8	8CS195	Major Project				20			
CSUG	2	8	8CS196	Comprehensive Viva				2			
				Semester Total				22	22	169	
CSUG				Departmental Electives							
CSUG	1	EL	CS151	Wireless Networks	3	0	0	3	TH		
CSUG	2	EL	CS152	Mobile Computing	3	0	0	3	TH		
CSUG	3	EL	CS153	Semantic Web	3	0	0	3	TH		
CSUG	4	EL	CS154	Pattern recognition	3	0	0	3	TH		
CSUG	5	EL	CS155	Image Processing	3	0	0	3	TH		
CSUG	6	EL	CS156	Natural Language Processing	3	0	0	3	TH		
CSUG	7	EL	CS157	Soft & Evolutionary Computing	3	0	0	3	TH		

CSUG	8	EL	CS158	Bio Inspired Computing	3	0	0	3	TH	
CSUG	9	EL	CS159	Machine learning	3	0	0	3	TH	
CSUG	10	EL	CS160	Information Retrieval	3	0	0	3	TH	
CSUG	11	EL	CS161	Genetic Algorithms	3	0	0	3	TH	
CSUG	12	EL	CS162	Neural Networks & its Applications	3	0	0	3	TH	
CSUG	13	EL	CS163	Data & Text Mining	3	0	0	3	TH	
CSUG	14	EL	CS164	VLSI & Evolutionary Computing	3	0	0	3	TH	
CSUG	15	EL	CS165	Real Time Systems	3	0	0	3	TH	
CSUG	16	EL	CS166	Distributed Operating System	3	0	0	3	TH	
CSUG	17	EL	CS167	Cyber Security	3	0	0	3	TH	
CSUG	18	EL	CS168	Intrusion Detection Systems	3	0	0	3	TH	
CSUG	19	EL	CS169	PKI & Trust Management	3	0	0	3	TH	
CSUG	20	EL	CS170	Network Security	3	0	0	3	TH	
CSUG	21	EL	CS171	Information Security	3	0	0	3	TH	
CSUG	22	EL	CS172	Wireless & Mobile Security	3	0	0	3	TH	
CSUG	23	EL	CS173	Object Oriented Analysis & Design	3	0	0	3	TH	
CSUG	24	EL	CS174	Introduction to Computer	3	0	0	3	TH	
CSUG	25	EL	CS175	Cryptography & Network Security	3	0	0	3	TH	
Open Elective										
CSUG	1	EL	3CS105	Object Oriented Methodology	3	1	0	4	TH	
CSUG	2	EL	CS171	Information Security	3	0	0	3	TH	
CSUG	3	EL	CS103	Data Structures and Algorithms	3	1	0	4	TH	