

**Computer Science and Engineering**

**Semester 1**

Sr. No.	Course	Code	Credit	Teaching Scheme			Examination Scheme			Total
				L	T	P	L	T	P	
1	Fundamentals of Computers & Programming	CS 101	5	3	0	4	100	0	100	200
2	Engineering Mathematics	AS 102	4	3	1	0	100	25	0	125
3	Engineering Physics	AS 103	4	3	0	2	100	0	50	150
4	Electronic Devices and Circuits	EC 104	4	3	0	2	100	0	50	150
5	English and Communication Skills	AL 105	4	3	0	2	100	0	50	150
6	ICT Workshop - I	CS 106	2	0	0	4	0	0	100	100
Total			23	15	1	14	500	25	350	875
Total Contact Hours per week				30				875		

**Semester 2**

Sr. No.	Course	Code	Credit	Teaching Scheme			Examination Scheme			Total
				L	T	P	L	T	P	
1	Discrete Mathematics	AS 201	4	3	1	0	100	25	0	125
2	Electrical Networks	EE 202	4	3	0	2	100	0	50	150
3	Data Structures and Algorithms	CS 203	4	3	0	2	100	0	50	150
4	Digital Logic Design	EC 204	4	3	0	2	100	0	50	150
5	Engineering Mechanics	AE 205	4	3	0	2	100	0	50	150
6	Signals and Systems	EC 206	4	3	1	0	100	25	0	125
Total			24	18	2	8	600	50	200	850
Total Contact Hours per week				28				850		

Sr. No.	Course	Code	Credit	Teaching Scheme			Examination Scheme			Total
				L	T	P	L	T	P	
1	Computer Organization	CS 301	4	3	0	2	100	0	50	150
2	Probability and Statistical Analysis	AS 302	4	3	1	0	100	25	0	125
3	Microprocessor and Interfacing	EC 303	4	3	0	2	100	0	50	150
4	Communication Engineering	EC 304	4	3	0	2	100	0	50	150
5	Automata and Formal Languages	CS 305	4	3	1	0	100	25	0	125
6	ICT Workshop - II	CS 306	2	0	0	4	0	0	100	100
Total			22	15	2	10	500	50	250	800
Total Contact Hours per week				27				800		

Sr. No.	Course	Code	Credit	Teaching Scheme			Examination Scheme			Total
				L	T	P	L	T	P	
1	Operating Systems	CS 401	4	3	0	2	100	0	50	150
2	Data Base Management System	CS 402	4	3	0	2	100	0	50	150
3	Design and Analysis of Algorithms	CS 403	4	3	1	0	100	25	0	125
4	Computer Networks	CS 404	4	3	0	2	100	0	50	150
5	System Software	CS 405	4	3	0	2	100	0	50	150
6	Object Oriented Technology	CS 406	4	3	0	2	100	0	50	150
Total			24	18	1	10	600	25	250	875
Total Contact Hours per week				29				875		

Sr. No.	Course	Code	Credit	Teaching Scheme			Examination Scheme			Total
				L	T	P	L	T	P	
1	Software Engineering	CS 501	4	3	0	2	100	0	50	150
2	Computer Graphics	CS 502	4	3	0	2	100	0	50	150
3	Artificial Intelligence	CS 503	4	3	0	2	100	0	50	150
4	Elective 1	CS 5xx	4	3	0	2	100	0	50	150
5	Elective 2	AE 5xx	3	3	0	0	100	0	0	100
6	Entrepreneurship and Ethical Practices	AE 506	3	3	0	0	100	0	0	100
Total			22	18	0	8	600	0	200	800
Total Contact Hours per week				26				800		

Sr. No.	Course	Code	Credit	Teaching Scheme			Examination Scheme			Total
				L	T	P	L	T	P	
1	Machine Learning	CS 601	4	3	0	2	100	0	50	150
2	Embedded System	EC 602	4	3	0	2	100	0	50	150
3	Information Security	CS 603	4	3	0	2	100	0	50	150
4	Elective 3	CS 6xx	3	3	0	0	100	0	0	100
5	Elective 4	EC 6xx	4	3	0	2	100	0	50	150
6	Art, Animation and Music	AL 606	4	3	0	2	100	0	50	150
Total			23	18	0	10	600	0	250	850
Total Contact Hours per week				28				850		

Semester 7	Sr. No.	Course	Code	Credit	Teaching Scheme			Examination Scheme			Total
					L	T	P	L	T	P	
	1	Distributed Computing	CS 701	4	3	0	2	100	0	50	150
	2	Cryptography and Network Security	CS 702	4	3	0	2	100	0	50	150
	3	Web Engineering	CS 703	4	3	0	2	100	0	50	150
	4	Elective 5	AE 7xx	3	3	0	0	100	0	0	100
	5	Project Preliminaries	CS 705	2	0	0	4	0	0	100	100
	6	Technical Writing and Presentation	CS 706	3	2	0	2	100	0	50	150
		Total		20	14	0	12	500	0	300	800
		Total Contact Hours per week			26				800		

Semester 8	Sr. No.	Course	Code	Credit	Teaching Scheme			Examination Scheme			Total
					L	T	P	L	T	P	
	1	Soft Computing	CS 801	4	3	0	2	100	0	50	150
	2	Economics and Business Management	AE 802	3	3	0	0	100	0	0	100
	3	Elective 6	AE 8xx	3	3	0	0	100	0	0	100
	4	Elective 7	CS 8xx	3	3	0	0	100	0	0	100
	5	Foreign Language	AL 805	3	3	0	0	100	0	0	100
	6	Project	CS 806	6	0	0	12	0	0	300	300
		Total		22	15	0	14	500	0	350	850
		Total Contact Hours per week			29				850		

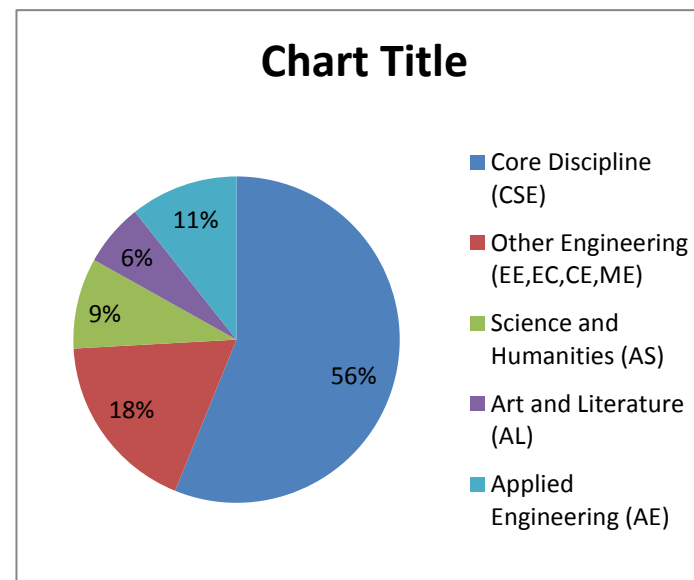
Total Credits Semesters 1 to 8	180	Computer Science Engineering (Core)	CS
		Electronics and Communication Engineering (Core)	EC
Total Contact Hours Semesters 1 to 8	223	Electrical Engineering	EE
		Civil Engineering	CE
Total Marks Semesters 1 to 8	6650	Mechanical Engineering	ME
		Applied Science	AS
Credit Distribution		Art and Literature	AL
Core Discipline (CSE)	56.2	Applied Engineering	AE
Other Engineering (EE,EC,CE,ME)	18		
Science and Humanities (AS)	9		
Art and Literature (AL)	6.2		
Applied Engineering (AE)	10.7		
	100		
	180		

**Elective 1 (CS) Semester 5 (L-T-P)3-0-2**

- Introduction to High Performance Computing (CS 511)
- Information Theory and Coding (CS 512)
- Principle of Programming Languages (CS 513)
- Data Science (CS 514)
- Sensor Network (CS 515)

**Elective 2 (AE) Semester 5 (L-T-P) 3-0-0**

- Environmental Science (AE 521)



Disaster Management (AE 522)  
ICT for Rural/Urban Development (AE  
523)

**Elective 3 (CS) Semester 6 (L-T-P) 3-0-0**

Grid Computing (CS 631)  
Bio System Engineering (CS 632)  
Cellular Network (CS 633)  
Natural Language Processing (CS 634)  
Cyber Law and Forensic (CS 635)

**Elective 5 (AE) Semester 7 (L-T-P) 3-0-0**

ICT for Banking Technology (AE 751)  
Operational Research (AE 752)  
Computer Aided Design and Manufacturing  
(AE 753)  
ICT for Political Science and Human Society  
(AE 754)

**Elective 4 (EC) Semester 6 (L-T-P) 3-0-2**

Digital Signal Processing (EC 641)  
Processor Architecture (EC 642)  
Hardware Description Languages (EC 643)  
Internet of Things Architecture and Protocols (EC 644)

**Elective 6 (AE) Semester 8 (L-T-P) 3-0-0**

GIS and Remote Sensing (AE  
861)  
Enterprise Resource Planning (AE 862)  
ICT for Administration (AE 863)  
E-Commerce and Mobile Computing (AE  
864)