

SCHEME : COMPUTER SCIENCE ENGINEERING (I to VIII SEM) APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS																
Year/Sem	Course Code	Subject Name	Type	CORE/ELECTIVE	Group	IC	DC	DE	Non-Graded	OC	Dep.Spec.	Minor.Spec.	Max Marks Internal	Max Marks External	Credit /Unit	Programme Option
1 Sem.	MTL100	Engineering Mathematics-I	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
1 Sem.	CSL100	Programming for Problem Solving	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
1 Sem.	CML101	Engineering Chemistry	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
1 Sem.	CEL100	Basic Civil Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
1 Sem.	HUN101	Human Values & Professional Ethics	TH	CORE	5	No	No	No	Yes	No			0	0	2	A
1 Sem.	CMP100	Engineering Chemistry Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
1 Sem.	CEP100	Basic Civil Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
1 Sem.	CEP102	Computer Aided Engineering Graphics	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
1 Sem.	MEP101	Product Realization through Manufacturing	PR	CORE	9	Yes	No	No	No	No			50	25	1	A

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1 Sem.	HUN111	Human Values Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
1 Sem.	SAN101	Induction Program	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
1 Sem.	CSP100	Programing Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
1 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
2 Sem.	MTL101	Engineering Mathematics-II	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
2 Sem.	CSL101	Data Analysis & AI Using Python	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
2 Sem.	PYL100	Engineering Physics	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
2 Sem.	MEL100	Basic Mechanical Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
2 Sem.	HUN102	Communication Skills	TH	CORE	5	No	No	No	Yes	No			0	0	2	A

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2 Sem.	PYP100	Engineering Physics Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
2 Sem.	MEP100	Basic Mechanical Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
2 Sem.	MEP102	Computer Aided Machine Drawing	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
2 Sem.	CSP200	Skill Development Laboratory	PR	CORE	9	Yes	No	No	No	No			50	25	1	A
2 Sem.	HUN112	Language Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
2 Sem.	TPN101	Club activity	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
2 Sem.	CSP101	Python Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
2 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
3 Sem.	CEL 101	Environmental Science	TH	CORE	1	Yes	No	No	No	No			50	100	2	A

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3 Sem.	HUL201	General Studies	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
3 Sem.	TPN102	Soft Skill Development -1	PR	CORE	3	No	No	No	Yes	No			0	0	1	A
3 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
3 Sem.	CSL201	Discrete Mathematic Structure	TH	CORE	5	No	Yes	No	No	No			100	100	4	A
3 Sem.	CSL202	Data Structures and Algorithms	TH	CORE	6	No	Yes	No	No	No			100	100	3	A
3 Sem.	CSL203	Object Oriented Programming	TH	CORE	7	No	Yes	No	No	No			100	100	3	A
3 Sem.	CSL204	Microprocessor and Microcontroller	TH	CORE	8	No	Yes	No	No	No			100	100	3	A
3 Sem.	CSL205	Software Engineering	TH	CORE	9	No	Yes	No	No	No			100	100	3	A
3 Sem.	CSL206	Computer Networks	TH	CORE	10	No	Yes	No	No	No			100	100	3	A

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3 Sem.	CSP202	Data Structures and Algorithms LAB	TH	CORE	11	No	Yes	No	No	No			50	25	1	A
3 Sem.	CSP203	Object Oriented Programming LAB	PR	CORE	12	No	Yes	No	No	No			50	25	1	A
3 Sem.	CSP204	Microprocessor & Microcontroller LAB	PR	CORE	13	No	Yes	No	No	No			50	25	1	A
3 Sem.	CSP205	Software Engineering LAB	PR	CORE	14	No	Yes	No	No	No			50	25	1	A
4 Sem.	MTL207	Statistics and Probability Theory	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
4 Sem.	HUL202	Economics and Financial Management	TH	CORE	2	Yes	No	No	No	No			50	100	3	A
4 Sem.	TPN103	Soft Skill Development -2	PR	CORE	3	No	No	No	Yes	No			0	0	1	A
4 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
4 Sem.	CSL207	Big Data Analysis	TH	CORE	5	No	Yes	No	No	No			50	100	3	A

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4 Sem.	CSL208	Artificial Intelligence	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
4 Sem.	CSL209	Internet of Things	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
4 Sem.	CSL210	Database Management System	TH	CORE	8	No	Yes	No	No	No			50	150	3	A
4 Sem.	CSL223	Advanced Data Structures	TH	ELECTIVE	9	No	No	Yes	No	No			50	150	3	A
4 Sem.	CSL224	Software Tools (Scilab, LaTeX, R)	PR	ELECTIVE	9	No	No	Yes	No	No			50	25	3	A
4 Sem.	CSL225	Human Computer Interface	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	3	A
4 Sem.	CSL282	Artificial Intelligence and Applications	TH	ELECTIVE	10	No	No	No	No	Yes			50	100	3	A
4 Sem.	CSL284	Fundamental of DBMS	TH	ELECTIVE	10	No	No	No	No	Yes			50	100	3	A
4 Sem.	CSL285	Software Tools and Techniques	TH	ELECTIVE	10	No	No	No	No	Yes			50	100	3	A

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4 Sem.	CSP207	Big Data Analysis Lab	PR	CORE	14	No	Yes	No	No	No			50	25	1	A
4 Sem.	CSP209	Internet of Things Lab	PR	CORE	15	No	Yes	No	No	No			50	25	1	A
4 Sem.	CSP210	Database Management System Lab	PR	CORE	16	No	Yes	No	No	No			50	25	1	A
5 Sem.	HUL203	Indian Constitution	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
5 Sem.	CSN201	Seminar-1	PR	CORE	2	No	No	No	Yes	No			0	0	1	A
5 Sem.	CST301	Industrial training (45 days)	PR	CORE	3	No	No	No	No	No			50	25	2	A
5 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
5 Sem.	CSL311	Design and Analysis of Algorithm	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
5 Sem.	CSL312	Recent Topics	TH	CORE	6	No	Yes	No	No	No			50	100	3	A

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5 Sem.	CSL313	Operating System	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
5 Sem.	CSP314	Linux Shell and Network Programming	PR	CORE	8	No	Yes	No	No	No			50	100	2	A
5 Sem.	CSL315	Theory of Computation	TH	CORE	9	No	Yes	No	No	No			50	100	3	A
5 Sem.	CSL326	Cyber Security Management	TH	ELECTIVE	10	No	No	Yes	No	No			50	100	3	A
5 Sem.	CSL327	Software Project Management	TH	ELECTIVE	10	No	No	Yes	No	No			50	100	3	A
5 Sem.	CSL328	Social Network Analysis	TH	ELECTIVE	10	No	No	Yes	No	No			50	100	3	A
5 Sem.	CSL271	Data Structures	TH	ELECTIVE	11	No	No	No	No	Yes			50	100	3	A
5 Sem.	CSL272	Concepts of Object Oriented Programming	TH	ELECTIVE	11	No	No	No	No	Yes			50	100	3	A
5 Sem.	CSL275	Cloud Computing and Applications	TH	ELECTIVE	11	No	No	No	No	Yes			50	100	3	A

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5 Sem.	CSL276	Cyber Security	TH	ELECTIVE	11	No	No	No	No	Yes			50	100	3	A
6 Sem.	CSN202	Seminar-2	PR	CORE	1	No	No	No	Yes	No			0	0	1	A
6 Sem.	SAA100	SODECA (Anandam)	PR	CORE	2	No	No	No	No	No			100	0	0.5	A
6 Sem.	CSL316	Compiler Design	TH	CORE	3	No	Yes	No	No	No			50	100	3	A
6 Sem.	CSL317	Computer Graphics	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
6 Sem.	CSL318	Computer Architecture and Organization	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
6 Sem.	CSL319	Distributed System	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
6 Sem.	CSP320	Emerging Technology Lab	PR	CORE	7	No	Yes	No	No	No			50	25	2	A
6 Sem.	CSL329	Digital Image Processing	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	3	A

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6 Sem.	CSL330	Nature Inspired Algorithms	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	3	A
6 Sem.	CSL331	Software Testing and Quality Assurance	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	3	A
6 Sem.	CSL332	Data Mining And Business Intelligence	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	3	A
6 Sem.	CSL333	Data Compression Techniques	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	3	A
6 Sem.	CSL334	Software Defined Network	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	3	A
6 Sem.	CSL281	Basics of Big Data Analysis	TH	ELECTIVE	13	No	No	No	No	Yes			50	100	4	A
6 Sem.	CSL283	Internet of Things Concepts	TH	ELECTIVE	13	No	No	No	No	Yes			50	100	4	A
6 Sem.	CSL286	Fundamental of Digital Image Processing	TH	ELECTIVE	13	No	No	No	No	Yes			50	100	4	A
6 Sem.	CSL287	Nature Inspired Algorithms and Applications	TH	ELECTIVE	13	No	No	No	No	Yes			50	100	4	A

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6 Sem.	CSP317	Computer Graphics Lab	PR	CORE	14	No	Yes	No	No	No			50	25	1	A
7 Sem.	CSD411	Project Part-1	PR	CORE	1	No	Yes	No	No	No			50	25	4	A
7 Sem.	CST302	Industrial training (60 days)	PR	CORE	2	No	No	No	No	No			50	25	3	A
7 Sem.	SAA100	SODECA (Anandam)	PR	CORE	3	No	No	No	No	No			100	0	0.5	A
7 Sem.	CSL421	Cloud Computing	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
7 Sem.	CSL422	Information System Security	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
7 Sem.	CSL435	Real Time System	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	3	A
7 Sem.	CSL436	Virtual Reality	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	3	A
7 Sem.	CSL437	Soft Computing	TH	ELECTIVE	6	No	No	Yes	No	No			50	100	3	A

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7 Sem.	CSL438	Graph Theory	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	3	A
7 Sem.	CSL439	Intelligent Robotics	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	3	A
7 Sem.	CSL440	Computer Vision	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	3	A
7 Sem.	CSL273	Fundamentals of Computer Network	TH	ELECTIVE	8	No	No	No	No	Yes			50	100	4	A
7 Sem.	CSL274	Operating System Concepts	TH	ELECTIVE	8	No	No	No	No	Yes			50	100	4	A
7 Sem.	CSL277	Robotics	TH	CORE	8	No	No	No	No	Yes			50	100	4	A
7 Sem.	CSL278	Basics of Soft Computing Techniques	TH	ELECTIVE	8	No	No	No	No	Yes			50	100	4	A
8 Sem.	HUL204	Innovation & Entrepreneurship	TH	CORE	1	Yes	No	No	No	No			50	100	3	A
8 Sem.	CSD412	Project Part-2	PR	CORE	2	No	Yes	No	No	No			50	25	6	A

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8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	3	No	No	No	No	No			100	0	0.5	A
8 Sem.	CSL441	Mobile Computing	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	3	A
8 Sem.	CSL442	Advanced DBMS	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	3	A
8 Sem.	CSL443	Pattern Recognition	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	3	A
8 Sem.	CSL444	Digital Forensic	TH	ELECTIVE	5	No	No	Yes	No	No			50	100	3	A
8 Sem.	CSL445	Agile Software Development	TH	ELECTIVE	5	No	No	Yes	No	No			50	100	3	A
8 Sem.	CSL446	Multi Core Architecture	TH	ELECTIVE	5	No	No	Yes	No	No			50	100	3	A
8 Sem.	HUL205	EQUIVALENT MOOC OF INNOVATION AND ENTREPRENEURSHIP	TH	CORE	6	Yes	No	No	No	No			50	100	3	B

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8 Sem.	CSD413	INTERNSHIP	PR	CORE	7	No	Yes	No	No	No			50	25	10	B
8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	8	No	No	No	No	No			100	0	0.5	B