

Programme: B.Tech. (CSE)
Duration: Four-Years
Academic Curriculum (2018 – 19 onwards)

First Year
First (I) Semester

	S. No.	Course Code	Course Title	Contact Hours per Week			Credits	Total Hours
				L	T	P		
Autumn Semester	1	AHL-110-18	Environmental Studies	2	0	0	2	2
	2	AHL-101-18	Applied Physics	3	1	0	4	4
	3	AHL-103-18	Applied Mathematics - I	3	1	0	4	4
	4	ECL-100-18/ /CSL-100-18	Principles of Electrical and Electronics Engineering/Basic of C Programming	3	1	0	4	4
	5	EEL-100-18	Joy of Engineering	3	0	0	3	3
	6	AHP-101-18	Applied Physics Lab	0	0	2	1	2
	7	AHP-110-18	Environmental Studies Lab	0	0	2	1	2
	8	ECP-100-18/ CSP-100-18	Principles of Electrical and Electronics Engineering Lab/ Basic of C Programming Lab	0	0	2	1	2
	9	MEP-110-18 /MEP-120-18	Auto CAD & Engineering Graphics/ Workshop Technology	0	0	3	2	3
	10	SDP-101-18	Workplace Competencies - 1	0	0	2	1	2
	Sub Total			14	3	11	23	28

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First Year
Second (II) Semester

	S. No.	Course Code	Course Title	Contact Hours per Week			Credits	Total Hours
				L	T	P		
Spring Semester	1	ECL-100-18 /CSL-100-18	Principles of Electrical and Electronics Engineering /Basic of C Programming	3	1	0	4	4
	2	AHL-104-18	Applied Mathematics - II	3	1	0	4	4
	3	MEL-100-18	Applied Mechanics	3	1	0	4	4
	4	AHL-106-18	Technical English	2	0	0	2	2
	5	-----	Open Elective - I	3	0	0	3	3
	6	ECP-100-18/ CSP-100-18	Principles of Electrical and Electronics Engineering Lab/ Basic of C Programming Lab	0	0	2	1	2
	7	MEP-120-18 /MEP-110-18	Workshop Technology / Auto CAD & Engineering Graphics	0	0	3	2	3
	8	SDP-102-18	Workplace Competencies - 2	0	0	2	1	2
		Sub Total			14	3	7	21

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Second Year
Third (III) Semester

	S. No.	Course Code	Course Title	Contact Hours per Week			Credits	Total Hours
				L	T	P		
Autumn Semester	1	CSL-213-18	Object Oriented Programming using Java	3	1	0	4	4
	2	CSL-215-18	Internet & Web Technology	3	0	0	3	3
	3	CSL-207-18	Discrete Structures	3	0	0	3	3
	4	CSL-217-18	Digital Media Technology	3	0	0	3	0
	5	CSP-213-18	Object Oriented Programming using Java Lab	0	0	2	1	2
	6	CSP-215-18	Internet & Web Technology Lab	0	0	2	1	2
	7	ECL-203-18	Digital Electronics	3	1	0	4	4
	8	MSL-503-18	Managerial Economics	3	0	0	3	3
	9	ECP-203-18	Digital Electronics Lab	0	0	2	1	2
	10	SDP-201-18	Workplace Competencies - 3	0	0	2	1	2
	11	SDP-261-18	Aptitude - 1	0	0	2	1	2
	Sub Total			18	2	10	25	27

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Second Year
Fourth (IV) Semester

	S. No.	Course Code	Course Title	Contact Hours per Week			Credits	Total Hours
				L	T	P		
Spring Semester	1	CSL-202- 18	Computer Architecture & Organization	3	1	0	4	4
	2	CSL-222- 18	NoSQL Databases	3	1	0	4	4
	3	CSL-216-18	Data Structure & Applications using Java	3	1	0	4	4
	4	CSL-218 -18	Operating System	3	0	0	3	3
	5	CSL-212-18	Software Engineering	3	0	0	3	4
	6	-----	Open Elective-II	3	0	0	3	3
	7	CSP-222-18	NoSQL Databases Lab	0	0	2	1	2
	8	CSP-216-18	Data Structure & Applications using Java Lab	0	0	2	1	2
	9	CSP-218 -18	Operating System Lab	0	0	2	1	2
	10	SDP-202-18	Workplace Competencies - 4	0	0	2	1	2
	11	SDP-262-18	Aptitude - 2	0	0	2	1	2
	Sub Total			18	3	10	26	32

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Third Year
Fifth (V) Semester

	S. No.	Course Code	Course Title	Contact Hours per Week			Credits	Total Hours
				L	T	P		
Autumn Semester	1	CSL-301-18	Computer Graphics	3	1	0	4	4
	2	CSL-305-18	FL & Automata Theory	3	1	0	4	4
	3	CSL-307-18	Algorithm Design & Analysis	3	0	0	3	3
	4	-----	Department Elective-I	3	0	0	3	3
	5	-----	Department Elective-I Lab	0	0	2	1	2
	6	CSP-307-18	Algorithm Design & Analysis Lab	0	0	2	1	2
	7	CSP-301-18	Computer Graphics Lab	0	0	2	1	2
	8	ECL-307-18	Microprocessor & Interfacing	3	1	0	4	4
	9	CST-311-18	Practical Training – I	0	0	2	1	2
	10	SDP-301-18	Workplace Competencies - 5	0	0	2	1	2
	11	SDP-361-18	Aptitude - 3	0	0	2	1	2
	Sub Total			15	3	12	24	30

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Third Year
Sixth (VI) Semester

	S. No.	Course Code	Course Title	Contact Hours per Week			Credits	Total Hours
				L	T	P		
Spring Semester	1	CSL-304-18	Artificial Intelligence	3	0	0	3	3
	2	CSL-306-18	Principles of Compiler Design	3	1	0	4	4
	3	CSL-310-18	Computer Network	3	0	0	3	3
	4	CSL-312-18	Advanced java	3	0	0	3	3
	5	-----	Department Elective – II	3	0	0	3	3
	6	CSP-304-18	Artificial Intelligence Lab	0	0	2	1	2
	7	CSP-306-18	Principles of Compiler Design Lab	0	0	2	1	2
	8	CSP-312-18	Advanced java Lab	0	0	2	1	4
	9	-----	Department Elective – II Lab	0	0	2	1	2
	10	SDP-302-18	Workplace competencies - 6	0	0	2	1	2
	11	SDP-362-18	Aptitude - 4	0	0	2	1	2
	Sub Total			15	1	12	22	30

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Fourth Year
Seventh (VII) Semester

	S. No.	Course Code	Course Title	Contact Hours per Week			Credits	Total Hours
				L	T	P		
				Autumn Semester	1	CSL-401-18		
2	-----	Open Elective-III	3		0	0	3	3
3	CSP-401-18	.NET Technology Lab	0		0	2	1	4
4	-----	Department Elective-III	4		0	0	4	4
5	SDP-401-18	Workplace Competencies - 7	0		0	2	1	2
6	CSD-401-18	Project-I	0		0	12	6	12
7	CST-411-18	Practical Training - II	0		0	2	1	2
	Sub Total				10	0	18	19

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Fourth Year
Eight (VIII) Semester

	S. No.	Course Code	Course Title	Contact Hours per Week			Credits	Total Hours	
				L	T	P			
Spring Semester	1	CSL-402-18	Advanced Computer Architecture	3	1	0	4	4	
	2	CSP-408-18	Matlab Application	0	0	2	1	2	
	3	-----	Department Elective-IV	4	0	0	4	4	
	4	-----	Open Elective-IV	3	0	0	3	3	
	6	CSD-408-18	Project -II	0	0	12	6	12	
	7	CSC-410-18	Independent Seminar	0	0	2	1	2	
		Sub Total			10	1	16	19	27

Departmental Electives – I, II,III,IV:

A student will be required to select one Departmental Elective paper (from Departmental Elective Group I) in V Semester, one Departmental Elective paper (from Departmental Elective Group II) in VI Semester, one Departmental Elective paper (from Departmental Elective Group III) in VII Semester and one Departmental Elective paper (from Departmental Elective Group IV) in VIII Semester.. The Department will announce Elective list in the beginning of the respective semester, the list of electives which will be offered during the semester depending upon the available resources and the demand of electives from students.

Course Code	Departmental Electives – I	Course Code	Departmental Electives – II
CSL-319-18	Network Programming	CSL-330-18	Android Application Development
CSL-323-18	Advance Web Technology	CSL-332-18	Basics of cloud computing
CSL-325-18	Introduction to Big Data	CSL -334-18	Introduction to data Analytics using R
CSP-319-18	Network Programming Lab	CSP-330-18	Android Application Development Lab
CSP-323-18	Advance Web Technology Lab	CSP-332-18	Basics of cloud computing Lab
CSP-325-18	Introduction to Big Data Lab	CSP -334-18	Introduction to data Analytics Using R Lab

Course Code	Departmental Electives – III	Course Code	Departmental Electives – IV
CSL-421-18	Apache Spark	CSL-406-18	Software Project Management
CSL-417-18	Machine learning	CSL-418-18	Soft Computing
CSL-419-18	Distributed operating System	CSL-412-18	Social Media Analytics

Open Electives – I , II ,III ,IV :

A student will be required to select any one Open Elective paper in II, IV, VII, VIII Semester (from the common approved pool of open electives floated by University from different Schools).The Department will announce in the beginning of the respective semester, the list of electives which will be offered during the semester depending upon the availability of resources and the demand of electives.

Project -I:

Each student would be required to write a minor project report based on their summer training. The student will write a project report under the supervision of a faculty member assigned by the Department. The Project Report will be evaluated both internally and externally by the University appointed examiners.

Project II:

Each student would be required to make a major project based on technical skills acquired final year. The student will write a project report under the supervision of a faculty member assigned by the Department. The Project Report will be evaluated both internally and externally by the University appointed examiners.

B.Tech. (CSE) Programme Total Credits and Total Hours

Semester		Credits	Total Hours
Autumn Semester	I	23	28
Spring Semester	II	21	24
Autumn Semester	III	25	27
Spring Semester	IV	26	32
Autumn Semester	V	24	30
Spring Semester	VI	22	30
Autumn Semester	VII	19	30
Spring Semester	VIII	19	27
Total		179	243

N.B. The curricular structure is subject to revision from time to time, which will be duly notified.