

**B.Tech (CSA) – Choice Based Credit System – 2020 Regulations
(With effect from the academic year 2021-22)**

Scheme of Instruction and Examinations

V Semester

Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits
		L	T	P	Total	
CA501C	Data Communication and Networking	3			3	3
CA502C	Advanced Artificial Intelligence	3			3	3
CA503C	Professional Elective- I	3			3	3
CA504C	Formal Languages and Automata Theory	3			3	3
CA505C	Advanced Data Structures	3			3	3
CA506L	Data Communication and Networking Laboratory			3	3	1.5
CA507L	Advanced Data Structures Laboratory			3	3	1.5
CA508S	Skill Oriented Course - JAVA PROGRAMMING	1		2	3	2
ME509M	Universal Human Values	2			2	-
Total		21		8	29	23

- All Courses - 40 marks (Internal) + 60 Marks (Univ. Semester End)

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Scheme of Instruction and Examinations

VI Semester

Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits
		L	T	P	Total	
CA601C	Data Science	3			3	3
CA602C	Web Technology	3			3	3
CA603C	Cryptography and Network Security	3			3	3
CA604C	Machine Learning	3			3	3
CA605C	Software Engineering	3			3	3
CA606O	Open Elective-I(Through MOOCs)	3			3	3
CA607L	Cryptography and Network Security Laboratory			3	3	1.5
CA608L	Data Science Laboratory			3	3	1.5
CA609S	Advanced Python programming (Skill course)	1		2	3	2
ME610M	Professional ethics(Mandatory Course)	2			2	
Total		21		8	29	23
Internship for 4 to 6 Weeks (Mandatory) during summer vacation.						

- All Courses - 40 marks (Internal) + 60 Marks (Univ. Semester End)

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Scheme of Instruction and Examinations

VII Semester

All -	Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits	Courses 40 marks
			L	T	P	Total		
	CA701C	Neural Networks	3			3	3	
	CA702C	Natural Language Processing	3			3	3	
	CA703C	Professional Elective-II	3			3	3	
	CA704C	Professional Elective-III	3			3	3	
	CA705O	Open Elective-II (Through MOOCs)	3			3	3	
	CA706O	Open Elective-III (Through MOOCs)	3			3	3	
	CA707L	Mobile Application Development(Skill course)	1		2	3	2	
	CA708L	Natural Language Processing Laboratory			3	3	1.5	
	CA709S	Industrial Internship(evaluated)					3	
	Total		19		8	27	23	
	Internship for 4 to 6 Weeks (Mandatory) during summer vacation.							

(Internal) + 60 Marks (Univ. Semester End)

- Formal Languages & Automata Theory
- Mobile Application Development

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Scheme of Instruction and Examinations

VIII Semester

Course Code	Course Title	Scheme of Instruction (Hours/Week)	No. of Credits
L	T	P	Total
CS/PROJ	Project Work with Internship	-	12

Professional Elective -I	Professional Elective -II	Professional Elective -III
Data mining	Image processing	Deep learning
Compiler Design	Distributed systems	Speech processing
Computer Graphics	Optimization Techniques	Internet of Things

B.Tech (CSE-AI) – Choice Based Credit System – 2020

Regulations Scheme of Instruction and Examinations

List of subjects for B.Tech (Honors) in Computer Science and Engineering (Artificial Intelligence)**

Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits
		L	T	P	Total	
CAHN01	Distributed Databases	3	1		4	4
CAHN02	Advanced Operating Systems	3	1		4	4
CAHN03	Block Chain Technology	3	1		4	4
CAHN04	Robotics	3	1		4	4
CAHN05	Expert Systems	3	1		4	4
CAHN06	Deep Learning	3	1		4	4

- All Courses - 40 marks (Internal) + 60 Marks (Univ. Semester End)

** Students shall register for any 4 subjects ($4 \times 4 = 16$ credits) from the above listed subjects, choosing one subject each in IV, V, VI and VII semester. Further, they shall acquire 4 credits through two MOOCs (each of 2 credits), which shall be discipline-specific.

B.Tech (CSE-AI) – Choice Based Credit System – 2020 Regulations
Scheme of Instruction and Examinations

List of subjects for B.Tech (Minor) in Computer Science and Engineering (Artificial Intelligence) **

Course Code	Course Title	Scheme of Instruction (Hours/Week)				No. of Credits
		L	T	P	Total	
CAMN01	Data Structures	3	1		4	4
CAMN02	Computer Organization	3	1		4	4
CAMN03	Artificial Intelligence	3	1		4	4
CAMN04	Computer Networks	3	1		4	4
CAMN05	Machine learning	3	1		4	4
CAMN06	Java and Web Technology	3	1		4	4

- All Courses - 40 marks (Internal) + 60 Marks (Univ. Semester End)

** Students shall register for any 4 subjects ($4*4 = 16$ credits) from the above listed subjects, choosing one subject each in IV, V, VI and VII semester. Further, they shall acquire 4 credits through two MOOCs (each of 2 credits), which shall be discipline-specific.

Minors syllabus is already exiting in course subjects.