

B. Tech (Hons.) CSE (AI & DS) - Programme Curriculum

Semester-I						Semester-II					
Type	Course	L	P	S	C	Type	Course	L	P	S	C
DC	Coding & Decoding Problem Solving	2	2		3	DC	Data Structures	2	4		4
DC	Data Intelligence for Decision Making	2	2		3	MI	IoT and Analytics	3			3
MI	AI's Generative Evolution	2	2		3	ID	Energy Systems	2	2		3
ID	Applied Mathematics	3			3	SE	Software Crafting & Sculpting	2	2		3
AE	English for Communication	2	2		3	VAC	Environment & Sustainable Future	2	2		3
VAC	Indian Knowledge Systems	3			3	VAC	Health Emergency Management	2			2
SE	Skill Applicative Learning			8	2	AE	Societal Outreach Project			8	2
Total					20	Total					20
Semester-III						Semester-IV					
DC	Database Management Systems	2	4		4	DC	Deep Learning	2	4		4
DC	Machine Learning	2	4		4	DC	The Art of Algorithms	2	4		4
MI	Minor Elective - 2	2	2		3	DC	Data Engineering & Modelling	2	4		4
ID	Applied Statistics	3			3	MI	Minor Elective - 3	2	2		3
AE	Technical Skills	1	2		2	AE	Professional Skills		2		1
SE	Minor Project - 1			16	4	MI	Minor Project - 2			16	4
	Soft computing				4		Software security				4
Total					24	Total					24
Semester-V						Semester-VI					
DC	Data Science & Visualization	2	4		4	DC	Data Augmented Analytics	2	2		3
DC	Business Intelligence	2	2		3	DC	Cloud Computing	2	4		4
DC	Predictive Analytics	2	4		4	DC	Computer Vision	2	2		3
MI	Minor Elective - 4	2	2		3	MI	Minor Elective - 5	2	4		4
DC	Capstone Project - 1			20	5	DC	Capstone Project - 2			20	5
	Reinforcement Learning				4		Agile Methodologies				4
II	Industry Internship			8	2						
Total					25	Total					23
Semester-VII						Semester-VIII					
DC	Natural Language Processing	2		8	4	DC	Blockchain and Cybersecurity:	3			3
MI	Minor Elective - 6	2		8	4	MI	Minor Elective - 7	3			3
						MI	Open Elective	2			2
DC	Major Project - 1				12	RP	Major Project - 2				12
Total					20	Total					20

Type	Abb.	Credits
Disciplinary Core	DC	80
Minor	MI	32
Interdisciplinary	ID	9
Ability Enhancement	AE	8
Skill Enhancement	SE	9
Industry Internship	II	2
Value Added Courses	VAC	8
Research Project	RP	12
Total		160