



GALGOTIAS UNIVERSITY



School of Computer Science and Engineering

Program

**Master of Technology in Computer Science and
Engineering (Data Science)**

Curriculum

First Semester - M. Tech. (CSE-DS)							
S.N.	Course Code	Course Title	Credit Structure				Total Credits
			L	T	P	S	
1	101	Advanced Design And Analysis Of Algorithms	3	0	1	0	4
2	102	Advanced Computer Networks	3	0	1	0	4
3	103	Advanced Operating Systems	3	0	0	0	3
4	104	Advanced Software Engineering	3	0	0	0	3
5	105	Technical Seminar	0	0	2	0	2
6	106	Professional and Communication Skills	0	0	2	0	2
7	107	Advanced Numerical And Statistical Methods	3	1	0	0	4
Total credits							22

Second Semester - M. Tech. (CSE-DS)							
S.N.	Course Code	Course Title	Credit Structure				Total Credits
			L	T	P	S	
1	201	Research Methodology	3	0	0	0	3
2	202	Technical Writing	0	0	2	0	2
3	203	Machine Learning	3	0	1	0	4
4	204	Cognitive Computing	3	0	1	0	4
5	205	Program Specific Elective-I	3	0	1	0	4
6	206	Program Elective-I	3	0	0	0	3
7	207	Verbal and Quantitative Reasoning	0	0	2	0	2
Total credits							22

Third Semester - M. Tech. (CSE-DS)							
S.N.	Course Code	Course Title	Credit Structure				Total Credits
			L	T	P	S	
1	301	Quantitative and Communication Proficiency	0	0	2	0	2
2	302	M. Tech Dissertation Part-1	0	0	0	9	9
3	303	Program Specific Elective-II	3	0	1	0	4
4	304	Program Elective-II	3	0	0	0	3
Total credits							18

Fourth Semester - M. Tech. (CSE-DS)							
S.N.	Course Code	Course Title	Credit Structure				Total Credits
			L	T	P	S	
1	401	M. Tech Dissertation-Final	0	0	0	18	18

List of Electives

S.N.	Course Code	Program Specific Elective-I (Sem II)	L	T	P	S	Credits
1	205	Natural Language Processing	3	0	1	0	4
2	205	Cloud based Data Analytics	3	0	1	0	4
3	205	Optimization Techniques for Data Analytics	3	0	1	0	4
4	205	Generative AI and Prompt Engineering	3	0	1	0	4

S.N.	Course Code	Program Elective-I (Sem II)	L	T	P	S	Credits
1	206	Distributed Systems	3	0	0	0	3
2	206	Blockchain Technologies	3	0	0	0	3
3	206	Intelligent Agents	3	0	0	0	3

S.N.	Course Code	Program Specific Elective-II (Sem III)	L	T	P	S	Credits
1	303	Deep Learning Techniques	3	0	1	0	4
2	303	Data Mining and Analytics	3	0	1	0	4
3	303	Big Data Science	3	0	1	0	4
4	303	Explainable AI	3	0	1	0	4

S.N.	Course Code	Program Elective-II (Sem III)	L	T	P	S	Credits
1	304	Security Practices	3	0	0	0	3
2	304	Social Network Analysis	3	0	0	0	3
3	304	Computational Compilation	3	0	0	0	3