

Department of Computer Science and Engineering
M.Tech (Computer Science)
Course Structure and Syllabus
Course structure M.Tech(CS) 2019-2020

I Year	COURSE STRUCTURE	I Semester
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S. No.	Subject Code	Program Core Subject Name	L	T	P	C	Marks	
							CIE	SEE
1	7P101	Mathematical foundations of Computer Science	2	1	-	3	30	70
2	7P102	Advanced Data Structures	2	1	-	3	30	70
3	7P156	Data Science	3	1	-	4	30	70
4	7P104	Python Programming	3	-	-	3	30	70
5		**Program Elective -I	3	-	-	3	30	70
6	7P150	Research Methodology & IPR	2	-	-	2	30	70
7	7HC18	Audit Course-1 (English for Research Paper Writing) *(Grade Evaluation)	2	-	-	0	30	70
							Grade Evaluation	
8	7P151	Advanced Data Structures Lab	-	-	4	2	30	70
10	7P152	Technical Seminar – I	-	-	2	1	100	-
Total			17	03	06	21	340	560

Program Elective I		
Sl No.	Subject Code	Subject Name
1	7P153	Digital Forensics
2	7P154	Wireless Sensor Networks
3	7P160	Data Mining
4	7P103	Distributed Systems
5	7P157	Computer Vision

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I Year	COURSE STRUCTURE	II Semester
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S. No.	Subject Code	Program Core Subject Name	L	T	P	C	Marks	
							CIE	SEE
1	7P201	Advanced Algorithms	2	1	-	3	30	70
2	7P202	Network Security and Cryptography	3	1	-	4	30	70
3	7HC19	Audit Course 2 (Ethics, Moral, Gender Sensitization and Yoga)	2	-	-	0	30	70
							Grade Evaluation	
4	7P256	Machine Learning	3	-	-	3	30	70
5		**Program Elective II	3	-	-	3	30	70
6		**Program Elective III	3	-	-	3	30	70
7	7P250	Information Security Lab	-	-	4	2	30	70
8	7P251	Technical Seminar – II	-	-	2	1	100	-
9	7P252	Comprehensive Viva Voce	-	-	2	1	30	70
10	7P253	Mini Project with Seminars	*Evaluation in II year I sem					
Total			16	2	8	20	340	560

Program Elective II			Program Elective III	
Sl.No.	Subject Code	Subject Name	Subject Code	Subject Name
1	7P254	Soft Computing	7P259	Secure Software Design and Enterprise Computing
2	7P255	Advanced Wireless and Mobile Networks	7P260	Semantic Web and Social Networking
3	7P203	Cloud Computing	7P261	Artificial Intelligence and Deep Learning
4	7P257	Cyber Security and Cyber Laws	7P262	Internet of Things
5	7P258	Scripting Languages	7P263	Mobile Applications and Services

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S. No.	Subject Code	Program Core Subject Name	L	T	P	C	Marks	
							CIE	SEE
1	7P301	Human Computer Interaction	3	-	-	3	30	70
2	7P302	Open Elective	3	-	-	3	30	70
3	7P303	Mini Project with Seminars (Project Conducted in summer)	-	-	6	3	30	70
4	7P304	Main Project Phase– I with Seminars	-	-	10	5	30	70
Total			6	0	16	14	120	280

Sl.No	Subject Code	Open Elective Subject Name
1	7ZC03	Banking Operations, Insurance and Risk Management
2	7T217	Embedded Systems
3	7WC18	Operations Research
4	7ZC28	Cost Management of Engineering Projects
5	7QC47	Bioinformatics

II Year	COURSE STRUCTURE	II Semester
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S. No.	Subject Code	Program Core Subject Name	L	T	P	C	Marks	
							CIE	SEE
1	7P401	Main Project Phase– II with Seminars	-	-	12	6	30	70
2	7P402	Dissertation and defense Viva	-	-	-	7	30	70
		Total	-	-	12	13	60	140

L - Lectures; T = Tutorial; P = Practical; C = Credits

CIE: Continuous Internal Evaluation

SEE: Semester End Exam