

M.Sc. Computer Science

FIRST SEMESTER

A.THEORY/PRACTICAL						
S.No.	SUBJECT NAME	SUBJECT TYPE	HOURS /WEEK			CREDITS
			L	T	P	
1	Mathematical foundations Of Computer Science	CC-1	3	1	-	4
2	Distributed Operating System	CC-2	4	-	4	6
3	Advanced Data Structures and Algorithms	CC-3	4	-	4	6
4	Advanced Database Management Systems	CC-4	3	-	4	5
5	Software Engineering Concepts and Methodologies	CC-5	3	-	-	3
6	Python Programming	SEC-1	3	-	2	4
Total of Theory and Tutorial						21
Total of Practical						7
Total of Semester						28

SECOND SEMESTER

A.THEORY/PRACTICAL						
S.No.	SUBJECT NAME	SUBJECT TYPE	PERIODS/WEEK			CREDITS
			L	T	P	
1	Advanced Java Programming	CC-6	4	-	4	6
2	Inferential Statistics	CC-7	3	-	2	4
3	Program Elective-I	PE-1	3	-	0	3
4	Program Elective-II	PE-2	3	-	2	4
5	Program Elective-III	PE-3	3	-	2	4
6	English for Research Paper Writing	SEC-2	4	-	0	4
Tota of Theory and Tutorial						20
Total of Practical						5
Total of Semester						25

Program Elective-I
Introduction to Data Science using Python
Introduction to Information security
Introduction to Cloud Computing
Mobile Application Development

Program Elective-II
Machine Learning
Ethical Hacking
Storage and Data Centres
Android Application Development

Program Elective-III
Real Time Data Processing
Digital Forensics
Principles of Virtualization
Advance Android Application Development

THIRD SEMESTER

A.THEORY/PRACTICAL						
S.No.	SUBJECT NAME	SUBJECT TYPE	PERIODS/WEEK			CREDITS
			L	T	P	
1	Software Verification and Validation Testing	CC-8	4	-	4	6
2	Program Elective-IV	PE-4	3	-	2	4
3	Program Elective-V	PE-5	3	-	2	4
4	Open Elective-1	OE-1	3	-		3
5	Placement training	SEC-3	2	-	0	2
6	Mini Project	SEC-4	0		10	5
Total of Theory & Tutorial						15
Total of Practical						9
Total of Semester						24

Program Elective-IV
Data Visualization
Data Encryption & Compression
Cloud Web Services
Java Script Frameworks

Program Elective-V
Data Mining
Web Security and SDLC
Hybrid Cloud Computing
Cross Platform Application Development

Open Elective-I
Business Analytics / Operations
Research/Cost Management of Engineering Projects

FOURTH SEMESTER

A.THEORY/PRACTICAL						
S.No.	SUBJECT NAME	SUBJECT TYPE	PERIODS/WEEK			CREDITS
			L	T	P	
1	Final Project/Internship And Viva	PE-6	-	-	32	16
2	Research Methodology	SEC-5	5	-	-	5
3	Research Project	SEC-6	-	-	12	6
Total of Theory &Tutorial						5
Total of Practical						22
Total of Semester						27

