

**MAHATMA GANDHI UNIVERSITY
SCHOOL OF COMPUTER SCIENCES**

FACULTY OF **ENGINEERING AND TECHNOLOGY**

PROGRAMME : **M. Tech in Computer Science and Technology**

Specialization: Communication and Network Technology

DURATION : **4 Semesters**

Minimum Total Credits Required : **86**

Revised Syllabus 2016

SEMESTER 1

Course Code	Course Title	Hours/Week			Credits
		L	T	P	
SKS M I C1651	Advanced Mathematical Structures	3	1	-	4
SKS M I C1652	Operating System Design	3	1	-	4
SKS M I C1653	Database Design	3	1	-	4
SKS M I C1654	Compiler Design	3	1	-	4
SKS M I E1655	Elective I	3	1	-	4
SKS M I C1656	Seminar I	-	2	2	2
SKS M I C1657	Advanced Computer Network Lab	-	-	2	2

SEMESTER II

Course Code	Course Title	Hours/Week			Credits
		L	T	P	
SKS M II C1661	Digital Communication Techniques	3	1	-	4
SKS M II C1662	Algorithms and Complexity	3	1	-	4
SKS M II C1663	Network Security	3	1	-	4
SKS M II E1664	Elective II	3	1	-	4
SKS M II E1665	Elective III	3	1	-	4
SKS M II C1666	Seminar II	-	-	2	2
SKS M II C1667	Network Simulation Lab	-	-	2	2

SEMESTER III

Course Code	Course Title	Hours/Week			Credits
		L	T	P	
SKS M III C1671	Research Methodology	3	1	-	3
SKS M III E1672	Elective IV	3	1	-	3
SKS M III E1673	Elective V	3	1	-	3
SKS M III C1674	Industrial Training	-	-	-	1
SKS M III C1675	Master Research Project Phase I	-	-	12	10

SEMESTER IV

Course Code	Course Title	Hours/Week			Credits
		L	T	P	
SKS M IV C1681	Master Research Project (Phase II)	-	-	30	18

LIST OF ELECTIVES

SKS M I E1655 (A)	Optical Communications
SKS M I E1655 (B)	Computational Intelligence
SKS M I E1655 (C)	Quantum Computing
SKS M II E1664 (A)	Data Compression
SKS M II E1664 (B)	Crypto complexity
SKS M II E1664 (C)	Game Theory
SKS M II E1665 (A)	Cloud Computing
SKS M II E1665 (B)	Big-Data Analytics
SKS M IIE1665 (C)	Soft Computing
SKS M III E1672 (A)	Wireless Sensor Networks
SKS M III E1672 (B)	Digital Image Processing
SKS M III E1672 (C)	Wireless Communication Technologies
SKS M III E1673 (A)	High Speed Networks
SKS M III E1673 (B)	Information Theory and Coding
SKS M III E1673(C)	Internet Models