

MAHATMA GANDHI UNIVERSITY
SCHOOL OF COMPUTER SCIENCES

PROGRAMME: M.Sc. Computer Science

FACULTY OF SCIENCE

DURATION: 4 Semesters

Minimum Total Credits Required: 80

Revised Syllabus 2016: Semester wise List of Courses

Semester I

Course Code	Course Title	Hours/Week			Credits
		L	T	P	
SKS M I C1611	Operating Systems with Case Studies	3	1	2	3
SKS M I C1612	Advanced Microprocessors	3	2	3	4
SKS M I C1613	Design and Analysis of Algorithms	3	2	3	4
SKS M I C1614	Wireless Communications	3	2	-	4
SKS M I E1615	Elective – I	3	1	2	3
SKS M I C1616	Internet Programming Lab	-	1	6	2
Total Credits (Semester I)					20

Semester II

SKS M II C1621	Soft Computing	3	1	2	3
SKS M II C1622	Advanced Data Base Management Systems	3	2	3	4
SKS M II C1623	Data Mining	3	2	3	4
SKS M II C1624	Software Engineering	3	-	2	4
SKS M II E1625	Elective – II	3	1	2	3
SKS M II C1626	Advanced Software Development Tools Lab	-	1	6	2
Total Credits(Semester II)					20

Semester III

SKS M III C1631	Advanced Java Programming	3	3	3	3
SKS M III C1632	Theoretical Computer Science	3	2	-	4
SKS M III E1633	Elective - III	3	1	2	3
SKS M III E1634	Elective - IV	3	1	2	3
SKS M III C1635	Linux Programming and Administration Lab	-	1	4	2
SKS M III C1636	Case Study- Object Oriented Analysis and Design & SKS M III C1631	-	1	2	1

	Open Course	3	1	2	4
Total Credits(Semester III)					20

Semester IV

SKS M IV C1641	Main Project	One Semester			16
SKS M IV C1642	Comprehensive Viva-voce	-	-	-	4
Total Credits(Semester IV)					20

Total Credits for the M Sc Programme : 80

ELECTIVES

Course Code	Course Title	Hours/Week			Credits
		L	T	P	
SKS M I E1615(A)	Advanced Data Structures	3	1	2	3
SKS M I E1615(B)	3D Graphics	3	1	2	3
SKS M I E1615(C)	Compiler Construction	3	1	2	3
SKS M II E1625(A)	Digital Image Processing	3	1	2	3
SKS M II E1625(B)	Distributed Systems	3	1	2	3
SKS M II E1625(C)	Advanced Computer Architecture	3	1	2	3
SKS M III E1633(A)	Security in Computing	3	1	2	3
SKS M III E1633(B)	Embedded systems	3	1	2	3
SKS M III E1633(C)	Pattern Recognition	3	1	2	3
SKS M III E1634(A)	Mobile Computing	3	1	2	3
SKS M III E1634(B)	Big Data Analytics	3	1	2	3
SKS M III E1634(C)	Cloud Computing	3	1	2	3