

M.Sc. Computer Science

Programme: M.Sc. Computer Science

A. Distribution of Courses, Credits and Contact Hours

Type of Course	Total No. of Courses	Credits per Course	Total Credits	Percentage in Total Credits	Total Contact Hours	Percentage in Total Contact Hours
Core (Compulsory)						
Theory	8	4	32	35.56	32	26.67
Laboratory	6	2	12	13.33	24	20.00
Research Review	1	2	2	2.22	2	1.67
Article Publication	1	2	2	2.22	6	5.00
Application Development	1	2	2	2.22	2	1.67
Internship : Review and Report	1	2	2	2.22	Extra	---
Project	1	12	12	13.33	25	20.84
Elective (Optional)						
Theory	5	4	20	22.22	21	17.50
Laboratory	1	4	4	4.44	4	3.33
Ability Enhancement						
Soft and Quantitative Skills	2	1	2	2.22	4	3.33
Total	27	1-12	90	100	120	100

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B. List of Core and Elective Courses

Core Courses (Compulsory)

Theory :

16PCS101	: Analysis and Design of Algorithms
16PCS102	: Relational Database Management System
16PCS103	: Multimedia and Animation Techniques
16PCS104	: Advanced Java Programming
16PCS105	: Introduction to Open Source Tools
16PCS106	: Information Security
16PCS107	: C# dot Net Programming
16PCS108	: Web Programming

Laboratory :

16PCS301	: Relational Database Management Systems
16PCS302	: Multimedia and Animation Techniques
16PCS303	: Java Programming
16PCS304	: Introduction to Open Source Tools
16PCS305	: C# dot Net Programming
16PCS306	: Web Programming

Elective Courses (Optional)

Regular Study - Theory:

Group 1(Any One Course)

16PCS201	: Advanced Networks
16PCS202	: Neural Network and Fuzzy Logic
16PCS203	: Network Security and Cryptography

Group 2(Any One Course)

16PCS204	: Advanced Software Engineering
16PCS205	: Software Reliability
16PCS206	: Software Project Management

Group 3(Any One Course)

16PCS207	: Cloud Computing
16PCS208	: Soft Computing
16PCS209	: Mobile Computing

Group 4(Any One Course)

16PCS210	: Data Mining and Ware Housing
16PCS211	: CASE Tools Applications and Concepts

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16PCS212 : Digital Image Processing

Regular Study - Laboratory:

Group 1(Any One Course)

16PCS213 : Data Mining

16PCS214 : Networking

16PCS215 : CASE Tools

Self Study:

Group 1(Any One Course)

16PCS216 : E-learning

16PCS217 : Research Methodology

16PCS218 : Entrepreneurship

Explanation for Course Code:

First 02 Digits : Year 2016; Third Digit : Level of the Programme (U : UG / P : PG);

**Fourth and Fifth Digits : Cluster / Discipline Code; Last 03 Digits : Nature of the
Course (Core/Elective/Supportive etc.,)**

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**C. Semester-wise Distribution of Courses, Credits, Marks and
Contact Hours**

=Part	Type of Course	Course Code	Title of the Course	Credits	Marks	Contact Hours / Week
Semester I						
III	Core : Theory – 1	16PCS101	Analysis and Design of Algorithms	4	100	4
	Core : Theory – 2	16PCS102	Relational Database Management System	4	100	4
	Core : Theory – 3	16PCS103	Multimedia and Animation Techniques	4	100	4
	Elective : Theory – 1	16PCS201/ 16PCS202/ 16PCS203	Advanced Networks/ Neural Network and Fuzzy Logic/ Network Security and Cryptography	4	100	4
	Elective : Theory – 2	16PCS204/ 16PCS205/ 16PCS206	Advanced Software Engineering/ Software Reliability/ Software Project Management	4	100	4
	Core : Laboratory – 1	16PCS301	Relational Database Management Systems	2	100	4
	Core : Laboratory – 2	16PCS302	Multimedia and Animation Techniques	2	100	4
	Core : Article Publication – 1	16PCS601	Publication of Article in Research Journal	-	CIA	2
Sub-Total				24	700	30
Semester II						
III	Core : Theory – 4	16PCS104	Advanced Java Programming	4	100	4
	Core : Theory – 5	16PCS105	Introduction to Open Source Tools	4	100	4
	Elective : Theory – 3	16PCS207/ 16PCS208/ 16PCS209	Cloud Computing/ Soft Computing/ Mobile Computing	4	100	4
	Elective : Theory – 4	16PCS210/ 16PCS211/ 16PCS212	Data Mining and Ware Housing/ CASE Tools Applications and Concepts/ Digital Image Processing	4	100	4
	Core : Laboratory – 3	16PCS303	Java Programming	2	100	4
	Core : Laboratory – 4	16PCS304	Introduction to Open Source Tools	2	100	4
	Core : Article Publication – 1	16PCS601	Publication of Article in Research Journal	-	CIA	2
	Core : Research Review – 1	16PCS701	Research Review on Current Trends in the Discipline : Report	2	100	2

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	Ability Enhancement	16PAB401	Soft and Quantitative Skills – I	1	100	2
Sub-Total				23	800	30
		16PCS801	Summer Internship			
Semester III						
III	Core : Theory – 6	16PCS106	Information Security	4	100	4
	Core : Theory – 7	16PCS107	C# dot Net Programming	4	100	4
	Core : Theory – 8	16PCS108	Web Programming	4	100	4
	Elective : Laboratory – 1	16PCS213/ 16PCS214/ 16PCS215	Laboratory: Data Mining/ Networking/ CASE Tools	4	100	4
	Core : Laboratory – 5	16PCS305	C# dot Net Programming	2	100	4
	Core : Laboratory – 6	16PCS306	Web Programming	2	100	4
	Core : Article Publication – 1	16PCS601	Publication of Articles in Research Journals	2	100	2
	Core : Application Development	16PCS951	Development of Application using the Concepts Learned and Skills Attained	2	100	2
	Ability Enhancement	16PAB402	Soft and Quantitative Skills – II	1	100	2
Core : Internship	16PMC801	Summer Internship : Review and Report	2	100	Extra	
Sub-Total				27	1000	30
Semester IV						
III	Elective : Theory – 5 (Self Study)	16PCS216/ 16PCS217/ 16PCS218	E-learning Research Methodology Entrepreneurship	4	100	5
	Core : Project	16PCS501	Project Work and Viva Voce	12	100	25
Sub-Total				16	200	30

Total Marks: 700+800+1000+200 = 2700

Total Credits: 24+23+27+16 = 90