

MSc (Computer Applications)							
Semester -I							
Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ES E	Total
Major Mandatory (14T) = (4T+4T+4T+2P)	CMPCA51101	Object Oriented Programming with C++	4	-	40	60	100
	CMPCA51102	Advanced Database Concepts	4	-	40	60	100
	CMPCA51103	Web Technology	4	-	40	60	100
	CMPCA51104	Practical based on Web Technology and DBMS	-	2	20	30	50
Major Elective (2T+2P)	CMPCA51205(A)	Cloud Computing	2	-	20	30	50
	CMPCA51206(A)	Practical based on Cloud Computing	-	2	20	30	50
		OR					
	CMPCA51205(B)	Operating System	2	-	20	30	50
	CMPCA51206(B)	Practical based on Operating System	-	2	20	30	50
RM (2T+2P)	CMPCA51307	Research Methodology	2	-	20	30	50
	CMPCA51308	Practical based on Research Methodology	-	2	20	30	50
Non SGPA	HR101	Human Rights - I	1	-	-	-	-
		Total	14	6	220	330	550
MSc (Computer Applications)							
Semester -II							
Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ES E	Total
Major Mandatory (14T) = (4T+4T+4T+2P)	CMPCA52101	Java Programming	4	-	40	60	100
	CMPCA52102	Data Warehousing and Data Mining	4	-	40	60	100
	CMPCA52103	Computer Networking	4	-	40	60	100
	CMPCA52104	Practical based on Java Programming and Data Mining	-	2	20	30	50
Major Elective (2T+2P)	CMPCA52205(A)	Python Programming	2	-	20	30	50
	CMPCA52206(A)	Practical based on Python Programming	-	2	20	30	50
		OR					
	CMPCA52205(B)	GO Language	2	-	20	30	50
	CMPCA52206(B)	Practical based on GO Language	-	2	20	30	50
OJT	CMPCA52407	On Job Training	-	4	40	60	100
Non SGPA	HR102	Human Rights - II	1	-	-	-	-
	CS102	Introduction to Cyber Security	4	-	-	-	-
		Total	14	8	220	330	550

MSc (Computer Applications)							
Semester -III							
Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory (14T) =(2T+2T+4T)	CMPCA63101	Data Science	4	-	40	60	100
	CMPCA63102	Software Testing and Tools	4	-	40	60	100
	CMPCA63103	Natural Language Processing	4	-	40	60	100
	CMPCA63104	Practical based on Data Science and Software Testing and To	-	2	20	30	50
DSE Electives (2T+2P)	CMPCA63205(A)	Mobile Application Development Using Android	2	-	20	30	50
	CMPCA63206(A)	Practical based on Mobile Application Development Using A	-	2	20	30	50
		OR					
	CMPCA63205(B)	DOT NET	2	-	20	30	50
	CMPCA63206(B)	Practical based on DOT NET	-	2	20	30	50
RP	CMPCA63507	Research Project	-	4	40	60	100
Non SGPA	SK201	Skill Development-I	2	-	20	30	50
		Total	14	10	220	330	550
MSc (Computer Applications)							
Semester -IV							
Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory	CMPCA64101	Industrial Project/Industrial Training	-	12	120	180	300
DSE Electives	CMPCA64202	Online Course with certificate equivalent to 4 credits	4	-	40	60	100
RP	CMPCA64503	Industrial Project Design	-	6	60	90	150
Non SGPA	SK202	Skill Development-II	2	-	20	30	50
	IC201	Introduction to Constitution	4	-	40	60	100
		Total	10	18	220	330	550

MSc (Computer Science)							
Semester -I							
Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory (14T) =(4T+4T+4T+2P)	CMPCS51101	Design and Analysis of Algorithms	4	-	40	60	100
	CMPCS51102	Database Technologies	4	-	40	60	100
	CMPCS51103	Artificial Intelligence	4	-	40	60	100
	CMPCS51104	Practical based on DBT and AI	-	2	20	30	50
Major Elective (2T+2P)	CMPCS51205(A)	Cloud Computing	2	-	20	30	50
	CMPCS51206(A)	Practical based on Cloud Computing	-	2	20	30	50
		or					
	CMPCS51205(B)	Content Management System	2	-			
	CMPCS51206(B)	Practical based on CMS		2			
RM (2T+2P)	CMPCS51307	Research Methodology	2	-	20	30	50
	CMPCS51308	Practical based on Research Methodology	-	2	20	30	50
Non SGPA	HR101	Human Rights - I	1	-	-	-	-
		Total	16	6	220	330	550
MSc (Computer Science)							
Semester -II							
Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory (4T+4T+4T+2P)	CMPCS52101	Software Testing and Tools	4	-	40	60	100
	CMPCS52102	Advanced Operating System	4	-	40	60	100
	CMPCS52103	Machine Learning	4	-	40	60	100
	CMPCS52104	Practical based on ML and STT	-	2	20	30	50
Major Elective (2T+2P)	CMPCS52205(A)	Mobile Technologies	2	-	20	30	50
	CMPCS52206(A)	Practical based on Mobile Technologies	-	2	20	30	50
		OR					
	CMPCS52205(B)	UI/UX Design	2	-	20	30	50
	CMPCS52206(B)	UI/UX Design Practical	-	2	20	30	50
OJT(4P)	CMPCS52407	On Job Training	-	4	40	60	100
	HR102	Human Rights - II	1	-	-	-	-
Non SGPA	CS102	Introduction to Cyber Security	4	-	-	-	-
		Total	12	10	220	330	550

MSc (Computer Science)**Semester -III****MSc (Computer Science)****Semester -III**

Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory (14T) =(4T+4T+4T+2P)	CMPCS63101	Software Architecture and Design Patterns	4	-	40	60	100
	CMPCS63102	DevOps	4	-	40	60	100
	CMPCS63103	Information System Security	4	-	40	60	100
	CMPCS63104	Practical based on SADP and DevOps	-	2	20	30	50
Major Elective (2T+2P)	CMPCS63205A	Software Project Management	2	-	20	30	50
	CMPCS63206A	Practical based on Software Project	-	2	20	30	50
		OR					
	CMPCS63205B	Prompt Engineering	2	-	20	30	50
	CMPCS63206B	Practical based on Prompt Engineering	-	2	20	30	50
Research Project	CMPCS63507	Research Project	-	4	40	60	100
Non SGPA	SK201	Skill Development - I	-	2	20	30	50
		Total	14	8	220	330	550

MSc (Computer Science)**Semester -IV**

Course Type	Course Code	Course Title	Credits		Evaluation		
			TH	PR	CIE	ESE	Total
Major Mandatory	CMPCS64101	Industrial Project/Industrial Training	-	12	120	180	300
DSE Electives	CMPCS64202	Online Course with certificate equivalent to 4 cr	4	-	40	60	100
RP	CMPCS64503	Industrial Project Design	-	6	60	90	150
Non SGPA	SK202	Skill Development-II	2		20	30	50
	IC201	Introduction to Constitution	4	-	40	60	100
		Total	4	18	220	330	550