MASTER OF COMPUTER APPLICATIONS
REGULATIONS 2019
CHOICE BASED CREDIT SYSTEM
SUMMARY OF CREDIT DISTRIBUTION

S. No	CATEGORY	CREDITS PER SEMESTER						TOTAL CREDIT	CREDITS IN %	Range Of Total Credits	
		I	II	III	IV	V	VI			Min	Max
1	FC	4						4	3%	1%	5%
2	PC	16	22	22	16	13		89	75%	80%	90%
3	PE				3	6		9	8%	5%	10%
4	EEC	2			1	2	12	17	14%	10%	20%
	TOTAL	22	22	22	20	21	12	119	100%	-	-

FC	-	Foundation Course	L	-	Lecture
PC	-	Professional Core	T	-	Tutorial
PE	-	Professional Elective	P	-	Practical
EEC	-	Employability Enhancement Course	H	-	Hours

MASTER OF COMPUTER APPLICATION
REGULATIONS 2019
CHOICE BASED CREDIT SYSTEM
I – VI SEMESTERS CURRICULUM AND SYLLABI

FIRST SEMESTER

Code No.	Course	Category	L	T	P	C	H
19MA1257	Mathematical Foundations of Computer Science	FC	4	0	0	4	4
19CA1102	Computer Architecture	PC	3	0	0	3	3
19CA1103	Problem Solving using C Programming	PC	3	0	0	3	3
19CA1104	Database Management Systems	PC	3	0	0	3	3
19CA1105	Data Structures	PC	3	0	0	3	3
19CA1111	Data Structures Laboratory	PC	0	0	4	2	4
19CA1112	Database Management Systems Laboratory	PC	0	0	4	2	4
19CA1913	Communication Skills Laboratory	EEC	1	0	2	2	3
	TOTAL		17	0	10	22	27

SECOND SEMESTER

Code No.	Course	Category	L	T	P	C	H
19CA2101	Object Oriented Programming	PC	3	0	0	3	3
19CA2102	Design and Analysis of Algorithms	PC	3	0	0	3	3
19CA2103	Software Engineering	PC	3	0	0	3	3
19CA2104	Operating Systems	PC	3	0	0	3	3
19CA2105	Computer Graphics and Multimedia	PC	3	1	0	4	4
19CA2111	Object Oriented Programming Laboratory	PC	0	0	4	2	4
19CA2112	Design and Analysis of Algorithms Laboratory	PC	0	0	4	2	4
19CA2113	Operating Systems Laboratory	PC	0	0	4	2	4
		TOTAL	**15**	**1**	**12**	**22**	**28**

THIRD SEMESTER

Code No.	Course	Category	L	T	P	C	H
19CA3101	Microprocessor and Microcontroller	PC	3	0	0	3	3
19CA3102	Computer Networks	PC	3	0	0	3	3
19CA3103	Web Programming Essentials	PC	3	0	0	3	3
19CA3104	Programming with Java	PC	3	0	0	3	3
19CA3105	Object Oriented Analysis and Design	PC	3	1	0	4	4
19CA3111	Networking Laboratory	PC	0	0	4	2	4
19CA3112	Web Programming Laboratory	PC	0	0	4	2	4
19CA3113	Programming with Java Laboratory	PC	0	0	4	2	4
19CA3M01	Effective Communication (For Lateral entry students)	NC	-	-	-	-	-
		TOTAL	**15**	**1**	**12**	**22**	**28**

FOURTH SEMESTER

Code No.	Course	Category	L	T	P	C	H
19CA4401	Resource Management Techniques	PC	3	0	0	3	3
19CA4102	Mobile Communications	PC	3	0	0	3	4
19CA4103	Data Mining	PC	3	0	0	3	3
19CA4104	Web Application Development	PC	3	0	0	3	4
	Professional Elective – I	PE	3	0	0	3	3
19CA4111	Mobile Application Development Laboratory	PC	0	0	4	2	4
19CA4112	Web Application Development Laboratory	PC	0	0	4	2	4
19CA4913	Technical Seminar and Report Writing	EEC	0	0	2	1	2
		TOTAL	**15**	**2**	**10**	**20**	**27**

FIFTH SEMESTER

Code No.	Course	Category	L	T	P	C	H
19CA5101	Cloud Computing	PC	3	0	0	3	3
19CA5102	Big Data Analytics	PC	3	0	0	3	3
19CA5103	Machine Learning	PC	3	0	0	3	3
	Professional Elective – II	PE	3	0	0	3	3
	Professional Elective – III	PE	3	0	0	3	3
19CA5111	Cloud and Big Data Laboratory	PC	0	0	4	2	4
19CA5112	Dot Net Laboratory	PC	0	0	4	2	4
19CA5913	Mini Project	EEC	0	0	4	2	4
19CA5M01	PHP Programming	NC	-	-	-	-	-
		TOTAL	**15**	**2**	**12**	**21**	**29**

SIXTH SEMESTER

Code No.	Course	Category	L	T	P	C	H
19CA6901	Project Work	EEC	0	0	24	12	24
		TOTAL	**0**	**0**	**24**	**12**	**24**

Code No.	Course	L	T	P	C
	PROFESSIONAL ELECTIVES				
	PROFESSIONAL ELECTIVE I				
19CA4201	Soft Computing	3	0	0	3
19CA4202	Accounting and Financial Management	3	0	0	3
19CA4203	Software Project Management	3	0	0	3
19CA4204	Security in Computing	3	0	0	3
19CA4205	Adhoc and Sensor Network	3	0	0	3
	PROFESSIONAL ELECTIVE II				
19CA5201	Professional Ethics	3	0	0	3
19CA5202	Health Care Management	3	0	0	3
19CA5203	Geological Information Systems	3	0	0	3
19CA5204	Human Resource Management	3	0	0	3
19CA5205	Internet of Things	3	0	0	3

Code No.	Course	L	T	P	C
PROFESSIONAL ELECTIVE III					
19CA5206	Software Testing and Quality Assurance	3	0	0	3
19CA5207	Web Server Programming in .NET	3	0	0	3
19CA5208	Game Programming	3	0	0	3
19CA5209	Computational Intelligence	3	0	0	3
19CA5210	Principles of Programming Languages	3	0	0	3
EMPLOYABILITY ENHANCEMENT COURSE					
19CA1913	Communication Skills Laboratory	1	0	2	2
19CA4913	Technical Seminar and Report Writing	0	0	2	1
19CA5913	Mini Project	0	0	4	2
19CA6911	Project Work	0	0	24	12
MANDATORY COURSES (NON CREDIT COURSES)					
19CA3M01	Effective Communication (For Lateral entry students)	-	-	-	-
19CA5M01	PHP Programming	-	-	-	-