

Program Name: Master of Computer Application (MCA)

Semester/Year: Semester – III / Second Year

Program Code: CS201

Effective From Academic Year: 2017-18

Subject Code	Subject Name	Credit	Hours per week				Theory (Marks)		Practical (Marks)		Total (Marks)
			L	T	P	Total	University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
1CS2010301	Structured & Object Oriented Analysis & Design Methodology	4	3	1	-	4	60	40	-	-	100
1CS2010302	Operating System	6	3	-	3	6	60	40	30	20	150
1CS2010303	Operations Research	4	3	1	-	4	60	40	-	-	100
	Elective-I	6	3	-	3	6	60	40	30	20	150
	Elective-II	6	3	-	3	6	60	40	30	20	150
1CS2010310	Workshop-III(Introduction to Computer Hardware, Peripherals & Networking Devices)	2	-	-	2	2	-	-	-	50	50
1CS2010311	Yoga, Meditation and Critical Thinking *	-	-	-	2	2	-	-	-	-	-
		28	15	2	13	30	300	200	90	110	700

* Non-credit course

List of Elective Subjects:

Elective - I	
1CS2010304	Programming with C++
1CS2010305	Programming with Java
1CS2010306	Programming with Python
Elective – II	
1CS2010307	Procedure Programming in SQL
1CS2010308	Image Processing
1CS2010309	Dynamic HTML

Program Name: Master of Computer Application (MCA)

Semester/Year: Semester – IV / Second Year

Program Code: CS201

Effective From Academic Year: 2017-18

Subject Code	Subject Name	Credit	Hours per week				Theory (Marks)		Practical (Marks)		Total (Marks)
			L	T	P	Total	University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
1CS2010401	Fundamentals of Networking	7	3	1	3	7	60	40	30	20	150
1CS2010402	Data Warehouse & Data Mining	4	3	1	-	4	60	40	-	-	100
1CS2010403	Advanced Database Management System	3	3	-	-	3	60	40	-	-	100
	Elective-III	7	4	-	3	7	60	40	30	20	150
	Elective-IV	7	4	-	3	7	60	40	30	20	150
1CS2010410	Research Methodology and Technical Communication*	-	2	-	-	2	-	-	-	-	-
		28	19	2	9	30	300	200	90	60	650

* Non-credit course

List of Elective Subjects:

Elective – III	
1CS2010404	Advanced Java Programming
1CS2010405	Advanced Python
1CS2010406	Data Analytics with R
Elective – IV	
1CS2010407	Programming with Linux, Apache, MySQL, and PHP (LAMP)
1CS2010408	Cyber Security & Forensic(CSF)
1CS2010409	Information Security