

# Master of Computer Applications

## FIRST SEMESTER EXAMINATION

Paper ID	Paper Code	Paper	L	T/P	Credit
044101	MCA 101	Fundamentals of IT	3	1	4
044103	MCA 103	Programming in C	3	1	4
044105	MCA 105	Discrete Mathematics	3	1	4
044107	MCA 107	Computer Organization	3	1	4
044109	MCA 109	Principles and Practices of Management	3	1	4
<b>Practical</b>					
044151	MCA 151	Fundamentals of IT Lab.	0	2	1
044153	MCA 153	Programming in C Lab	0	4	2
044155	MCA 155	Computer Organization Lab.	0	4	2
<b>NUES</b>					
044161	MCA 161	General Proficiency – I*  (It is suggested to have Personality Development and Communication Skills - I Course)	0	2	1
		<b>Total</b>	<b>15</b>	<b>17</b>	<b>26</b>

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## SECOND SEMESTER EXAMINATION

Paper ID	Paper Code	Paper	L	T/P	Credit
044102	MCA 102	Data and File Structures	3	1	4
044104	MCA 104	Object Oriented Programming in C++	3	1	4
044106	MCA 106	Operating Systems	3	1	4
044108	MCA 108	Database Management Systems	3	1	4
044110	MCA 110	Software Engineering	3	1	4
<b>Practical</b>					
044152	MCA 152	Data and File Structures Lab	0	2	1
044154	MCA 154	Object Oriented Programming in C++ Lab	0	4	2
044156	MCA 156	Database Management Systems Lab	0	2	1
044158	MCA 158	Software Engineering Lab.	0	2	1
<b>NUES</b>					
044162	MCA 162	General Proficiency – II* (It is suggested to have Personality Development and Communication Skills – II Course)	0	2	1
<b>Total</b>			<b>15</b>	<b>17</b>	<b>26</b>

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## THIRD SEMESTER EXAMINATION

Paper ID	Paper Code	Paper	L	T/P	Credit
044201	MCA 201	Theory of Computation	3	1	4
044203	MCA 203	Computer Graphics	3	1	4
044205	MCA 205	Java Programming	3	1	4
044207	MCA 207	Data Communications and Networking	3	1	4
044209	MCA 209	C# Programming	3	1	4
<b>Practical</b>					
044251	MCA 251	Computer Graphics Lab	0	2	1
044253	MCA 253	Java Programming Lab	0	4	2
044255	MCA 255	C# Programming Lab.	0	4	2
<b>NUES</b>					
044261	MCA 261	General Proficiency – III* (It is suggested to have Technical Paper Writing Course)	0	2	1
		<b>Total</b>	<b>15</b>	<b>17</b>	<b>26</b>

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## FOURTH SEMESTER EXAMINATION

Paper ID	Paper Code	Paper	L	T/P	Credit
044202	MCA 202	Design and Analysis of Algorithms	3	1	4
044204	MCA 204	Data Warehousing and Data Mining	3	1	4
044206	MCA 206	Advanced Computer Networks	3	1	4
044208	MCA 208	Object Oriented Analysis and Design	3	1	4
044210	MCA 210	Web Technologies	3	1	4
		<b>Practical</b>			
044252	MCA 252	Design and Analysis of Algorithms Lab	0	2	1
044254	MCA 254	Data Warehousing and Data Mining Lab	0	2	1
044256	MCA 256	Advanced Computer Networks Lab	0	2	1
044258	MCA 258	Object Oriented Analysis and Design Lab	0	2	1
044260	MCA 260	Web Technologies Lab	0	2	1
<b>NUES</b>					
044262	MCA 262	General Proficiency – IV* (It is suggested to have Process Modeling Management Oriented Course)	0	2	1
		<b>Total</b>	<b>15</b>	<b>17</b>	<b>26</b>

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## FIFTH SEMESTER EXAMINATION

Paper ID	Paper Code	Paper	L	T/P	Credit
044301	MCA 301	Linux Programming	3	1	4
044303	MCA 303	Software Testing	3	1	4
044305	MCA 305	Enterprise Computing with Java	3	1	4
<b>Elective - I (Choose any One)</b>					
044307	MCA 307	Advanced Database Management Systems	3	1	4
044309	MCA 309	Numerical and Scientific Computing			
044311	MCA 311	Software Project Management			
044313	MCA 313	Multimedia Technologies			
044315	MCA 315	Mobile Computing			
044317	MCA 317	Artificial Intelligence			
044319	MCA 319	Microprocessors			
044321	MCA 321	Compiler Design			
<b>Elective - II (Choose any One)</b>					
044323	MCA 323	Operational Research	3	1	4
044325	MCA 325	Distributed Systems			
044327	MCA 327	Financial Accounting			
044329	MCA 329	Organizational Behavior			
044331	MCA 331	Advanced Computer Architecture			
044333	MCA 333	Software Quality Management			

044335	MCA 335	Digital Signal Processing			
044337	MCA 337	Research Project			
<b>Practical</b>					
044351	MCA 351	Linux Programming Lab	0	2	1
044353	MCA 353	Software Testing Lab	0	2	1
044355	MCA 355	Enterprise Computing with Java Lab	0	4	2
044357	MCA 357	Lab based on Elective - I	0	2	1
<b>NUES</b>					
044361	MCA 361	General Proficiency – V* (It is suggested to have Intellectual Property Rights - Software Systems Oriented Course)	0	2	1
		<b>Total</b>	<b>15</b>	<b>17</b>	<b>26</b>

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## SIXTH SEMESTER EXAMINATION

Paper ID	Paper Code	Paper	L	T/P	Credit
044302	MCA 302	Dissertation	-	-	26
<b>NUES</b>					
044362	MCA 362	General Proficiency – VI* (Seminar and Progress Report)	-	-	4
		<b>Total</b>	-	-	<b>30</b>

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The student will submit a synopsis at the beginning of the semester for approval from the departmental committee in a specified format. The student will have to present the progress of the work through seminars and progress reports.

### Note:

1. The total number of the credits of the MCA programme = 160.
2. Each student shall be required to appear for examinations in all courses. However, for the award of the degree a student shall be required to earn the minimum of 150 credits

