



**School of Engineering and Technology**  
**Jain Global Campus**  
Jakkasandra Post, Kanakapura Taluk, Ramanagara District  
Pin Code: 562 112

**JAIN UNIVERSITY**

Declared as Deemed-to-be University u/s 3 of the UGC Act 1956

**Master of Technology**  
**In**  
**Computer Science and Engineering**  
**Course Matrix for I to IV Semesters**

**Batch: 2014-2016**

**Department of Computer Science & Engineering**



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**Course Matrix**  
**Computer Science and Engineering**  
**I Semester**

Sl. No.	Subject Code	Name of the Subject	Credit	L-T-P	Internal Assessment		End Semester Examinations		Minimum Passing Marks
					Max. Marks	Min. Marks	Max. Marks	Min. Marks	
1	14MCSC101	Advanced Software Engineering	4	4-0-0	50	25	50	25	50
2	14MCSC102	Data Structures and Algorithms	4	4-0-0	50	25	50	25	50
3	14MCSC103	Operating System and Design Principles	4	4-0-0	50	25	50	25	50
4	14MCSC104	Advances in Data Base Management Systems	4	4-0-0	50	25	50	25	50
5	14MCSCxxx	Elective - 1	4	4-0-0	50	25	50	25	50
6	14MCSC106L	Computer Lab -1	2	0-0-6	50	25	50	25	50
<b>Total</b>			22		<b>300</b>		<b>300</b>		<b>600</b>

**Elective – I**

Sl. No.	Subject Code	Name of the Subject
1	14MCSC151	C# and .Net Concepts
2	14MCSC152	Object Oriented Information System Design
3	14MCSC153	Principles of Programming Languages
4	14MCSC154	Neural Networks

**Date:**

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**Computer Science and Engineering**  
**II Semester**

Sl. No.	Subject Code	Name of the Subject	Credit	L-T-P	Internal Assessment		End Semester Examinations		Minimum Passing Marks
					Max. Marks	Min. Marks	Max. Marks	Min. Marks	
1	14MCSC201	Parallel Computer Architecture and Programming	4	4-0-0	50	25	50	25	50
2	14MCSC202	Computer Networks And Distributed Systems	4	4-0-0	50	25	50	25	50
3	14MCSC203	Cloud Computing	4	4-0-0	50	25	50	25	50
4	14MCSC204	Design Patterns	4	4-0-0	50	25	50	25	50
5	14MCSCxxx	Elective - 2	4	4-0-0	50	25	50	25	50
6	14MCSC206L	Computer Lab - 2	2	0-0-6	50	25	50	25	50
<b>Total</b>			22		<b>300</b>		<b>300</b>		<b>600</b>

**Elective – II**

Sl. No.	Subject Code	Name of the Subject
1	14MCSC251	Advanced Java and J2EE
2	14MCSC252	Real Time Embedded Systems
3	14MCSC253	Data Mining and Data Warehousing
4	14MCSC254	Web Technologies and E-Commerce

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**Course Matrix**  
**Computer Science and Engineering**  
**III Semester**

Sl. No.	Subject Code	Name of the Subject	Credit	L-T-P	Internal Assessment		End Semester Examinations		Minimum Passing Marks
					Max. Marks	Min. Marks	Max. Marks	Min. Marks	
1	14MCSC301	Software Testing	4	4-0-0	50	25	50	25	50
2	14MCSC302	Android Applications Design	4	4-0-0	50	25	50	25	50
3	14MCSCXXX	Elective - 3	4	4-0-0	50	25	50	25	50
4	14MCSC304	Internship	2		50	25	--	--	25
5	14MCSC305	Seminar	2		50	25	--	--	25
<b>Total</b>			16		<b>250</b>		<b>150</b>		<b>400</b>

**Elective – III**

Sl. No.	Subject Code	Name of the Subject
1	14MCSC331	Business Intelligence
2	14MCSC332	Big Data Analytics
3	14MCSC333	Network Forensics
4	14MCSC334	Functional Programming using Scala

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## Course Matrix Computer Science and Engineering

### IV Semester

Sl. No.	Subject Code	Name of the Subject	Credit	L-T-P	Internal Assessment		End Semester Examinations		Minimum Passing Marks
					Max. Marks	Min. Marks	Max. Marks	Min. Marks	
1	14MCSC401	Project Work and Dissertation	20		100	50	400	200	250
<b>Total</b>			20		<b>100</b>		<b>400</b>		<b>500</b>

Date:

Head of the Department