



Sanjay Ghodawat University, Kolhapur
School of Computer Science and Application
Department of Master of Computer Application

Structure for Master of Computer Application Program R0
With effect from Academic Year 2020-21

Structure for First Year Odd Semester (Semester I)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT %	Min. Pass %
MCA101 (Version: 1.0	Computational Mathematics	4	-	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA103 (Version: 1.0	Relational Database Management System	3	1	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA105 (Version: 1.0	Operating System	3	1	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA107 (Version: 1.0	Software Engineering & Project Management	3	-	-	3	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA109 (Version: 1.0	Java Programming	3	-	-	3	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA111 (Version: 1.0	Java Programming Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA113 (Version: 1.0	RDBMS Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA115 (Version: 1.0	Soft skill and Personality Development	-	-	2	1				
Total		16	2	10	23	Total Hours: 28, Total Credits: 23			

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Structure for First Year Even Semester (Semester II)									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
MCA102 (Version: 1.0	Data Analytics	3	1	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA104 (Version: 1.0	Data Structures and Algorithms	3		-	3	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA106 (Version: 1.0	Program Elective I	4	-	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA108 (Version: 1.0	Web Technologies	4	-	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA110 (Version: 1.0	Python Programming	3	1	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA112 (Version: 1.0	Data Structures and Algorithms Lab using Python	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA114 (Version: 1.0	Web Technologies Lab	-	-	2	1	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA116 (Version: 1.0	Soft skill and Personality Development	-	-	2	1				
Total		17	2	8	23	Total Hours: 27, Total Credits: 23			

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Program Elective – I (for Semester II) MCA106
Information and Network Security
Object Oriented Analysis and Design
Computational Intelligence
Distributed database management



Structure for Second Year Odd Semester (Semester III)									
Course Code	Course Title	L	T	P	C	Component	Evaluation Scheme		
							Exam	WT %	Min. Pass %
MCA201 (Version: 1.0	Computer Networks & Security	3	1	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA203 (Version: 1.0	Machine Learning	4	-	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA205 (Version: 1.0	Program Elective II	3	-	-	3	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA207 (Version: 1.0	Mobile Application Development	3	-	-	3	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA209 (Version: 1.0	Software Quality Assurance And Testing	3	1	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA211 (Version: 1.0	Machine Learning Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA213 (Version: 1.0	Mobile Application Development Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA215 (Version: 1.0	Internship	-	-	-	2	Practical 100 Marks	FEP	50	40
Total		16	2	8	24	Total Hours: 26, Total Credits: 24			

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Program Elective – II (for Semester III) MCA205_
Internet of Things
Pattern Recognition Techniques and Applications
Cyber Forensics
Parallel Programming



Structure for Second Year Even Semester (Semester IV)									
Course Code	Course Title	L	T	P	C		Evaluation Scheme		
						Component	Exam	WT %	Min. Pass %
MCA202 (Version: 1.0	.net Programming	3	1		4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA204 (Version: 1.0	A.I and Applications	4	-	-	4	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA206 (Version: 1.0	Program Elective III	3	-	-	3	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA208 (Version: 1.0	Advanced Web Technology	3	-	-	3	Theory 100 Marks	FET	20	40
							CAT I	15	
							CAT II	15	
							ESE	50	40
MCA212 (Version: 1.0	A.I and Applications Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA214 (Version: 1.0	Advanced Web Technology Lab	-	-	4	2	Practical 100 Marks	FEP	50	40
							POE	50	40
MCA216 (Version: 1.0	Project	-	-	8	4	Practical 200 Marks	FEP	50	40
							POE	50	40
Total		13	1	16	22	Total Hours: 30, Total Credits: 22			

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Program Elective III (for Semester IV) MCA206
Cloud Computing
Service Oriented Architecture
Ethical Hacking
Big Data Analytics