



**SAGE UNIVERSITY, INDORE**  
**INSTITUTE OF COMPUTER APPLICATION**  
**PROGRAM STRUCTURE**

**CHOICE BASED CREDIT SYSTEM (Wef: Academic Session 2024-25)**

<b>Program Code: MCA</b> <b>Admission Batch: -2024-26</b>
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**Program: Master of Computer Application**

**Sem-I**

**Subject wise Distribution of Marks and Corresponding credits.**

S.No	Sub Code	Category	Subject Name	Marking Scheme								Lecture /Practical			NTCC	Credit	Total Hours	
				Theory				Practical				L	T	P				SM
				End Sem	Continuous Internal Evaluation		Total	End Sem Practical Viva	Continuous Internal Evaluation		Total							
					Mid Term	Attendance /Assignment /Quiz			Lab Work	Attendance /Assignment /Quiz								
1	CAPDCMOS004T	DC	Modern Operating Systems	60	20	20	100	-	-	-	-	4				4	4	
2	CAPDCCAO001T	DC	Computer Architecture and Organisation	60	20	20	100	-	-	-	-	4		-		4	4	
3	CAPDCDBM018T	DC	Data Base Management System	60	20	20	100	-	-	-	-	3				3	3	
4	CAPDEWDT006T	DE-I	Web Design and Technology	60	20	20	100	-	-	-	-	3		-		3	3	
	CAPDEIOT004T		Introduction to Internet-Of-Things					-	-	-	-							
5	CAPDEWDT006P	DE-I	Lab -Web Design and Technology	-	-	-		30	10	10	50			2		1	2	
	CAPDEIOT004P		Lab - Introduction to Internet-Of-Things	-	-	-												
6	CAPDCDBM018P	DC	Lab- Data Base Management System	-	-	-		30	10	10	50			2		1	2	
7	CAPDCITF001T	DC	IT Fundamentals	60	20	20	100	-	-	-		4				4	4	
8	CAPDSCPC013P	DSEC- I	Computer Progg in C	-	-	-	-	30	10	10	50			4		2	4	
	CAPDSOOP005P		Object Oriented Programming using C++	-	-	-	-											
9	CAPDSEMT003N	DS	Elementary Mathematics*												4		4	
<b>TOTAL</b>				<b>300</b>	<b>100</b>	<b>100</b>	<b>500</b>	<b>90</b>	<b>30</b>	<b>30</b>	<b>150</b>	<b>18</b>	<b>0</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>22</b>	<b>30</b>

**BRIDGE Course for non-mathematics students\* Teaching will be conducted but no exam.**

**Dr. Sanjay Dubey**  
**HOD, ICA, SUI**



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**Program: Master of Computer Application**

**Sem-II**

**Subject wise Distribution of Marks and Corresponding credits.**

S.No	Sub Code	Category	Subject Name	Marking Scheme								Lecture /Practical			NTCC	Credit	Total Hours	
				Theory				Practical				L	T	P				
				End Sem	Continuous Internal Evaluation		Total	End Sem Practical Viva	Continuous Internal Evaluation		Total							
					Mid Term	Attendance /Assignment /Quiz			Lab Work	Attendance /Assignment /Quiz								
1	CAPDCDSA003T	DC	Data Structure and Algorithms	60	20	20	100	-	-	-	-	3				3	3	
2	CAPDCSEM011T	DC	Software Engineering Methodology	60	20	20	100	-	-	-	-	4				4	4	
3	CAPDECCO013T	DE-II	Cloud Computing	60	20	20	100	-	-	-	-	3	1			4	4	
	CAPDEDSC001T		Data Science															
4	CAPDEBDA018T	DE-III	Big Data Analytics	60	20	20	100	-	-	-	-	3	1			4	4	
	CAPDEPDC007T		Parallel and Distributed Computing															
5	CAPDCDSA003P	DC	Lab Data Structure and Algorithms	-	-	-	-	30	10	10	50			2		1	2	
6	CAPDSCPC006P	DSEC-II	Python	-	-	-	-	30	10	10	50			4		2	4	
	CAPDSOOP015P		OBJECT ORIENTED ANALYSIS AND DESIGN USING UML															
7	CAPDCGVC001T	DC	GRAPHICS AND VISUAL COMPUTING	60	20	20	100					4				4	4	
8	CAPDSCON004N	DS	Computer Oriented Numerical Methods*											4			4	
<b>Total</b>				<b>300</b>	<b>100</b>	<b>100</b>	<b>500</b>	<b>60</b>	<b>20</b>	<b>20</b>	<b>100</b>	<b>17</b>	<b>2</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>22</b>	<b>29</b>

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**Program Code: MCA**  
**Admission Batch: 2024**  
**-25**  
**Admission Batch: 2023**  
**-24**

**Program: Master of Computer Application**

**Sem-III**

**Subject wise Distribution of Marks and Corresponding credits.**

S.No	Sub Code	category	Subject Name	Marking Scheme							Lecture / Practical					Credit	Total Hours					
				Theory			Practical				L	T	P	S	M			N	T	C	C	
				End Sem	Continuous Internal Evaluation		Total	End Sem Practical Viva	Continuous Internal Evaluation													Total
					Mid Term	Attendance / Assignment / Quiz			Lab Work	Attendance / Assignment / Quiz												
1	CAPDCDCC006T	DC	Data Communication and Computer Networks	60	20	20	100					4							4	4		
2	CAPDCMAI010T	DC	Modern Artificial Intelligence	60	20	20	100					4							4	4		
3	CAPDEPCS019T	DE-IV	Principle of Cyber Security	60	20	20	100					4							4	4		
	CAPDEULP016T		Unix / Linux Operating System																			
4	CAPDETOC021T	DE-V	Theory of Computation	60	20	20	100					4							4	4		
	CAPDEAAL007T		Analysis of Algorithms																			
5	CAPDSINT001N	DSEC-III	Internship	-	-	-	-	-	20	30	50								4	2	0	
6	CAPDPMNP001N	DAP	Minor Project						40	60	100								12	6	0	
<b>Total</b>				<b>240</b>	<b>80</b>	<b>80</b>	<b>400</b>		<b>60</b>	<b>90</b>	<b>150</b>	<b>16</b>						<b>16</b>	<b>24</b>	<b>16</b>		

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 Admission Batch: -2023-24

Program: Master of Computer Application

Sem-IV

Subject wise Distribution of Marks and Corresponding credits.

S.No	Sub Code	Category	Subject Name	Marking Scheme								Lecture / Practical			Credit	Total Hours		
				Theory				Practical										
				End Sem	Continuous Internal Evaluation		Total	End Sem Practical Viva	Continuous Internal Evaluation		Total	L	T	P			SM	NTCC
					Mid Term	Attendance /Assignment /Quiz			Lab Work	Attendance /Assignment /Quiz								
1	CAPDSMAD001N	DSEC-IV	Mobile Application Development	-	-	-	-	-	-	-	-	-	-	-	4	2	-	
	CAPDSWAD003N		Web Application Development	-	-	-	-	-	-	-	-	-	-	-	-			
2	CAPDPMJP002N	DAP	Major Project	-	-	-	-	-	40	60	100	-	-	30	-	4	15	30
<b>Total</b>				-	-	-	-	-	<b>40</b>	<b>60</b>	<b>100</b>			<b>30</b>	-	<b>4</b>	<b>17</b>	<b>30</b>

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