



# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Scheme of Teaching & Examination

### Master of Computer Applications (MCA)

#### Semester-I

S. No	Board of Studies	Subject Code	Subject Name	Periods Per Week			Scheme of Examination					Total Marks	Credits
							Theory			Practical			
				L	T	P	ESE	CT	TA	ESE	TA		
1	Computer Applications	5021171 (021)	C++ and Data Structure	4	1	-	100	20	20	-	-	140	5
2	Computer Applications	5021172 (021)	Advance Data Base Management System	4	1	-	100	20	20	-	-	140	5
3	Computer Applications	5021173 (021)	Software Engineering and Project Management	4	1	-	100	20	20	-	-	140	5
4	Applied Maths	5021174 (014)	Mathematical Foundation of Computer Science	4	1	-	100	20	20	-	-	140	5
5	Computer Applications	5021175 (021)	Fundamentals of Computer Science	4	1	-	100	20	20	-	-	140	5
6	Computer Applications	5021161 (021)	Python (Lab)	0	0	4	-	-	-	75	25	100	2
7	Computer Applications	5021162 (021)	C++ and Data Structure (Lab)	-	-	4	-	-	-	75	25	100	2
8	Computer Applications	5021163 (021)	Advance Data Base Management System (Lab)	-	-	5	-	-	-	75	25	100	3
9	Computer Applications	--	Seminar	-	-	2	-	-	-	-	-	-	-
<b>Total</b>				<b>20</b>	<b>05</b>	<b>15</b>	<b>500</b>	<b>100</b>	<b>100</b>	<b>225</b>	<b>75</b>	<b>1000</b>	<b>32</b>

L: Lecture T: Tutorial P: Practical ESE: End Semester Examination TA: Teacher's Assessment CT: Class Test



# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Scheme of Teaching and Examination

### Master of Computer Applications (MCA)

#### Semester-II

S. No	Board of Studies	Subject Code	Subject Name	Periods Per Week			Scheme of Examination					Total Marks	Credits
							Theory			Practical			
				L	T	P	ESE	CT	TA	ESE	TA		
1	Computer Applications	5021271 (021)	Programming with Java	4	1	-	100	20	20	-	-	140	5
2	Computer Applications	5021272 (021)	Computer Network	4	1	-	100	20	20	-	-	140	5
3	Computer Applications	5021273 (021)	Artificial Intelligence	4	1	-	100	20	20	-	-	140	5
4	Computer Applications	5021274 (021)	Operating System with Unix	4	1	-	100	20	20	-	-	140	5
5	<i>Refer Table-I</i>		<i>Elective-I</i>	4	1	-	100	20	20	-	-	140	5
6	Computer Applications	5021261 (021)	Java (Lab)	0	0	4	-	-	-	75	25	100	2
7	Computer Applications	5021262 (021)	Unix (Lab)	-	-	4	-	-	-	75	25	100	2
8	Computer Applications	5021263 (021)	Web Technology (Lab)	-	-	5	-	-	-	75	25	100	3
9	Humanities	5021264 (046)	Personality Development	-	-	2	-	-	-	-	-	-	-
<b>Total</b>				<b>20</b>	<b>05</b>	<b>15</b>	<b>500</b>	<b>100</b>	<b>100</b>	<b>225</b>	<b>75</b>	<b>1000</b>	<b>32</b>

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**Table-I (Elective-I)**

S.No	Board of Studies	Subject Code	Subject Name Elective-I (Management)
1	Management	5021281(076)	Accounting and Financial Management
2	Management	5021282(076)	Supply Chain Management
3	Management	5021283(076)	Managerial Economics
4	Management	5021284(076)	Enterprise Resource Planning
5	Management	5021285(076)	Management Information System
6	Management	5021286(076)	Digital Marketing



# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Scheme of Teaching and Examinations Master of Computer Applications (MCA)

### Semester-III

S. No	Board of Studies	Subject code	Subject Name	Periods Per Week			Scheme Of Examination					Total Marks	Credits
				L	T	P	Theory			Practical			
							ESE	CT	TA	ESE	TA		
1	Computer Applications	5021371 (021)	Computer Graphics and Image Processing	4	1	-	100	20	20	-	-	140	5
2	Computer Applications	5021372 (021)	Cryptography and Network Security	4	1	-	100	20	20	-	-	140	5
3	Computer Applications	5021373 (021)	Data Science	4	1	-	100	20	20	-	-	140	5
4	<i>Refer Table-I</i>		<i>Elective-I</i>	4	1	-	100	20	20	-	-	140	5
5	<i>Refer Table-II</i>		<i>Elective-II</i>	4	1	-	100	20	20	-	-	140	5
6	Computer Applications	5021361 (021)	Data Science (Lab)	0	0	5	-	-	-	75	25	100	3
7	Computer Applications	5021362 (021)	Android (Lab)	-	-	4	-	-	-	75	25	100	2
8	Computer Applications	5021363 (021)	Minor Project*	-	-	4	-	-	-	75	25	100	2
9	Computer Applications	5021364 (021)	Report Writing	-	-	2	-	-	-	-	-	-	-
<b>Total</b>				<b>20</b>	<b>5</b>	<b>15</b>	<b>500</b>	<b>100</b>	<b>100</b>	<b>225</b>	<b>75</b>	<b>1000</b>	<b>32</b>

L:Lecture T: Tutorial P:Practical ESE : End Semester Examination TA: Teacher's Assessment CT: Class Test

**Note: \* Student has to undergo 4 weeks training/certification/internship/online course after the second semester during summer vacation, which would be given weightage in assessments of 3<sup>rd</sup> semester minor project.**

Table-I (Elective-I)		
Board of Studies	Subject Code	Subject Name
Computer Applications	5021381(021)	Natural Language Processing
Computer Applications	5021382(021)	Mobile Computing
Computer Applications	5021383(021)	Compiler Design
Computer Applications	5021384(021)	Neural Network & Fuzzy Logic
Computer Applications	5021385(021)	Blockchain Technology

Table-II (Elective-II)		
Board of Studies	Subject Code	Subject Name
Computer Applications	5021391(021)	Machine Learning
Computer Applications	5021392(021)	Parallel Processing
Computer Applications	5021393(021)	Internet of Things
Computer Applications	5021394(021)	Formal Language and Automata Theory
Computer Applications	5021395(021)	Operation Research



# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Scheme of Teaching & Examination

### Master of Computer Applications (MCA)

#### Semester-IV

S. No	Board of Studies	Subject Code	Subject Name	Periods Per Week			Scheme of Examination					Total Marks	Credits
							Theory			Practical			
				L	T	P	ESE	CT	TA	ESE	TA		
1	Computer Applications	5021471 (021)	Cloud Computing	3	1	-	100	20	20	-		140	4
2	Computer Applications	5021472 (021)	Big Data Analytics	3	1	-	100	20	20	-	-	140	4
3	Computer Applications	5021461 (021)	Industrial Internship	2	-	24	-	-	-	150	70	-	14
4	--	--	MOOC Certification*	-	-	-	-	-	-	-	-	-	2
<b>Total</b>				<b>8</b>	<b>2</b>	<b>24</b>	<b>200</b>	<b>40</b>	<b>40</b>	<b>150</b>	<b>70</b>	<b>280</b>	<b>24</b>

L-Lecture

T-Tutorial

P-Practical

CT-Class Test

TA-Teacher Assessment

ESE-End Semester Exam

**Note: \*MOOC Certification in any one programming language.**