Chhattisgarh Swami Vivekanand Technical University, Bhilai SCHEME OF TEACHING & EXAMINATION Master of Computer Applications (MCA) Ist Semester

				P	erio	ds	Scheme	e of Exa	ım			
S.NO	Board of Study	Subject Code	Subject		Per Vee		Theory	/ Practi	cal	Total Marks	Credits L+(T+P)/2	
	Study	Cour		L	Т	Р	ESE	СТ	ТА	iviai Ko	2 (2 · 2), 2	
1	Applied Maths	521151(14)	Mathematical Foundations of Computer Science	4	1	0	100	20	20	140	5	
2	Computer Applications	521152(21)	Information and Web Technology	4	1	0	100	20	20	140	5	
3	Computer Applications	521153(21)	Problem Solving And Program Design With C	4	1	0	100	20	20	140	5	
4	Computer Applications	521154(21)	Computer Organization & Architecture	4	1	0	100	20	20	140	5	
5	Humanities	521155(46)	Professional communication in English	4	1	0	100	20	20	140	5	
6	Computer Applications	521161(21)	Programming Lab in C	0	0	4	75	_	25	100	2	
7	Computer Applications	521162(21)	Software Technology Lab I	0	0	4	75	_	25	100	2	
8	Humanities	521163(46)	Professional Communication in English	0	0	4	50	_	25	75	2	
9	Humanities	521164(46)	Personality Development	0	0	2	_	_	25	25	1	
10			Library	-		1						
			TOTAL	20	5	15	700	100	200	1000	32	

ESE: End Semester Examination CT: Class Test TA: Teacher's Assessment L: Lecture T: Tutorial P: Practical Note: Duration of End Semester Examination of all theory papers will be of Three Hours

Chhattisgarh Swami Vivekanand Technical University, Bhilai SCHEME OF TEACHING & EXAMINATION

Master of	Computer	Applications	(MCA)	II nd	Semester
-----------	----------	--------------	-------	------------------	----------

				Pe	erio	ds	Scheme	e of Exa	ım			
SI.	Subject SUBJECT Board of Code		SUBJECT		Per Veel		Theory	/ Practi	cal	Total Marks	Credits L+(T+P)/2	
No.	Study	Couc		L	Т	Р	ESE	СТ	ТА	iviai ko	1. (1.1)/2	
1	Computer Applications	521251(21)	Operating System	4	1	0	100	20	20	140	5	
2	Computer Applications	521252(21)	Database Management System	4	1	0	100	20	20	140	5	
3	Computer Applications	521253(21)	Data Structures	4	1	0	100	20	20	140	5	
4	Applied Maths	521254(14)	Computer Oriented Numerical Analysis	4	1	0	100	20	20	140	5	
5	Management	521255(76)	Introduction to Management Functions	4	1	0	100	20	20	140	5	
6	Computer Applications	521261(21)	Data Structures Laboratory	0	0	4	75	Ι	25	100	2	
7	Computer Applications	521262(21)	Programming Laboratory in RDBMS	0	0	4	75	_	25	100	2	
8	Computer Applications	521263(21)	Software Technology laboratory II	0	0	4	50	_	25	75	2	
9	Humanities	521264(46)	Group Discussion	0	0	2	_	_	25	25	1	
10			Library			1						
			TOTAL	20	5	15	700	100	200	1000	32	

ESE: End Semester Examination CT: Class Test TA: Teacher's Assessment L: Lecture T: Tutorial P: Practical Note: Duration of End Semester Examination of all theory papers will be of Three Hours

Chhattisgarh Swami Vivekanand Technical University Bhilai (C.G.) SCHEME OF TEACHING & EXAMINATION

SCHEME OF TEACHING & EXAMINATION Master of Computer Applications (MCA) – IIISemester

				-	Periods Per		Sche	meofE	xam		
	Board of	Subject		Week		Theory /Practical			Total	Credits	
SI. No.	Study	Code	SUBJECT	L	Т	Р	ESC	СТ	ТА	Marks	L+(T+P)/2
1	Computer Applications	521351(21)	ComputerNetworksand Communication	4	1	0	100	20	20	140	5
2	Applied Maths	521352(14)	ComputerOriented Optimization	4	1	0	100	20	20	140	5
3	Computer Applications	521353(21)	FormalLanguages and AutomataTheory	4	1	0	100	20	20	140	5
4	Computer Applications	521354(21)	Unix OperatingSystem andShell	4	1	0	100	20	20	140	5
5	Computer Applications	521355(21)	ObjectOriented MethodologyandC++	4	1	0	100	20	20	140	5
6	Computer Applications	521361(21)	ProgrammingLabin C++	0	0	4	50	-	25	75	2
7	Computer Applications	521362(21)	Unix lab	0	0	4	75	-	25	100	2
8	Computer Applications	521363(21)	Software Technology Lab III	0	0	5	75	_	25	100	3
9	Humanities	521364 (46)	Report Writing & Seminar	0	0	2	_	-	25	25	1
	1		TOTAL	20	5	15	700	100	200	1000	33

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

Name of the Programme: Master of Computer Applications (MCA) :::: Duration of the Programme: Three years

Chhattisgarh Swami Vivekanand Technical University Bhilai(C.G.) SCHEMEOFTEACHING&EXAMINATION Master of Computer Applications (MCA) – IV Semester

					erio	od	Sche	meofE	xam		
	Board of	Subject		PerWeek		Theory /Practical			Total	Credit	
S.No.	Study	Code	SUBJECT	L	Т	Р	ESC	СТ	ТА	Marks	L+(T+P)/2
1	Computer Applications	521451(21)	Artificial Intelligence and Expert System	4	1	0	100	20	20	140	5
2	Computer Applications	521452(21)	CompilerDesign	4	1	0	100	20	20	140	5
3	Computer Applications	521453(21)	Software Engineering	4	1	0	100	20	20	140	5
4	Computer Applications	521454(21)	Advanced JAVA Programming	4	1	0	100	20	20	140	5
5	Re	ferTable-I	Elective– I	4	1	0	100	20	20	140	5
6	Computer Applications	521461(21)	ArtificialIntelligence Lab	0	0	4	50	-	25	75	2
7	Computer Applications	521462(21)	Advanced JavaLab	0	0	4	75		25	100	2
8	Computer Applications	521463(21)	Project-I	0	0	5	75	_	25	100	3
9	Computer Applications	521464(21)	Aptitude Training	0	0	2	_	_	25	25	1
		TOTAL		20	5	15	700	100	200	1000	33

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

Table 1 : List of Elective -I

S.N 0.	BoardofStudy	Code	Subject
1	Computer Applications	521471(21)	NeuralNetwork&Fuzzy Logic
2	Computer Applications	521472(21)	Logic& Functional Programming
3	Computer Applications	521473(21)	NetworkProgramming
4	Computer Applications	521474(21)	Modeling&Simulation
5	ComputerApplications	521475(21)	Design&Analysisof Algorithms
6	Computer Applications	521476(21)	System Programming
7	Computer Applications	521477(21)	Distributed Operating System
8	Computer Applications	521478(21)	Cloud Computing
9	Computer Applications	521479(21)	Biometric Security

Note:

- 1. 1/4th of total strength of students subject to Minimum Strength of twenty students is required to offer an elective in the college in a particular academic session.
- 2. Choice of elective course once made for an examination cannot be changed for future examinations.

Chhattisgharh Swami Vivekanand Technical University, Bhilai

SCHEME OF TEACHING & EXAMINATION FIFTH SEMESTER MCA

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

	Board of				Period			ne of Ex	kam	Total	
S.NO	Board of Study	Subject code	SUBJECT	/	Week		Theor	y/ Prac	tical	Marks	Credit L
				L	Т	P	ESC	СТ	TA		+(T+P)/2
1	Computer Applications	521551(21)	Cyber Security	4	1	0	100	20	20	140	5
2	Computer Applications	521552(21)	Computer Graphics and Multimedia	4	1	0	100	20	20	140	5
3	Computer Applications	521553(21)	Software Project Management	4	1	0	100	20	20	140	5
4	4 Refer Table - II		Elective - II	4	1	0	100	20	20	140	5
5	Refer Tal	ble - III	Elective-III	4	1	0	100	20	20	140	5
6	Computer Applications	521531(21)	Graphics and Multimedia Lab	0	0	4	50	_	25	75	2
7	Computer Applications	521532(21)	Software Technology Lab-IV	0	0	4	75	_	25	100	2
8	Computer Applications	521533(21)	Project-II	0	0	5	75	_	25	100	3
9	Management	521534(76)	Managerial Skills	0	0	2	_	_	25	25	1
			TOTAL	20	5	15	700	100	200	1000	33

P: Practical

* Industrial lectures/seminars should be conducted during the fifth semester

Table 2 : List of Elective II

S.No.	Board of Study	Code	Subject
1	Management	521571(76)	Managerial Economics
2	Management	521572(76)	Enterprise Resource Planning
3	Management	521573(76)	Organizational Behavior
4	Management	521574(76)	Management Information Systems
5	Management	521575(76)	E-Commerce
6	Management	521576(76)	Management Accounting

Note (1)- 1/4th of total strength of students subject to Minimum Strength of twenty students is required to offer an elective in the college in a particular academic session

Note (2) - Choice of elective course once made for an examination cannot be changed for future examinations.

|--|

S.No.	Board of Studies	Code	Subject
1	Computer Applications	521581(21)	Data Warehousing and Mining
2	Computer Applications 521582(21)		Natural Language Processing
3	Computer Applications	521583(21)	Mobile Computing
4	Computer Applications	521584(21)	Distributed Databases
5	Computer Applications	521585(21)	Robotics & Computer Vision
6	Computer Applications	521586(21)	Parallel Processing
7	Computer Applications	521587(21)	Digital Image Processing
8	Computer Applications	521588(21)	Big data Analytics

Chhattisgharh Swami Vivekanand Technical University, Bhilai

SCHEME OF TEACHING & EXAMINATION SIXTH SEMESTER MCA

S.NO	Board of Study	Subject code	SUBJECT	Period		Scheme of Exam Theory/ Practical			Total Marks	Credit L	
				/Week							
				L	Т	P	ESC	СТ	ТА		+(T+P)/2
1	Computer Applications	521661(21)	Project	4	0	32	300			300	20
2	Computer Applications	521662(21)	Seminar on Project		0	4			200	200	2
			TOTAL	4		36	300		200	500	22

General Guidelines for MCA VI semester

- Students are required to take up individual project in companies/Organizations/PSU/Govt. EDP Cell other than the mini project standards already taken up during previous semesters.
- > Project should be real time work, for total of 5 months duration.
- Project work may be application oriented or research oriented as per student interest. Therefore the project reports will vary depending on whether it is application oriented project or research based project.
- Regular project work weekly dairy should be maintained by the students, signed by the internal guide in order to verify the regularity of the student.
- > Seminars / presentation should be given at Project Completion levels.
- Project verification at the place of project work is mandatory by the internal guide, for completion of the work.
- If project report is not as per the format and not a real time project, external guides will have every right to reject the project
- Students are encouraged and appreciated to show their project code demo along with their power point slide show during their viva-voce exams as an added advantage.

Guidelines for the Preparation of Project Reports

• **Printing Area:** The margins should be: Left: 1.25", Right: 1.00", Top and Bottom-1.00". The text should be justified to occupy the full line width, so that the right margin is not ragged, with words hyphenated as appropriate. Please fill pages so that the length of the text runs to the right margin.

The report must be printed on one side only. Please use a high-resolution printer, preferably a laser printer with at least 300 dpi. Project reports must be printed neatly on