

Chhattisgarh Swami Vivekanand Technical University, Bhilai

SCHEME OF TEACHING & EXAMINATION

FIRST SEMESTER- MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Periods per week			Scheme of Exam			Total Marks	Credits L+(T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Applications	421111 (21)	Computer Fundamentals	4	1	0	80	20	20	120	5
2	Computer Applications	421112 (21)	Fundamentals of Programming	4	1	0	80	20	20	120	5
3	Applied Mathematics	421113 (14)	Elementary Mathematics	4	1	0	80	20	20	120	5
4	Humanities	421114 (46)	Communication Skills – I	4	1	0	80	20	20	120	5
5	Management	421115 (76)	Principles of Management	4	1	0	80	20	20	120	5
6	Computer Applications	421121 (21)	PC Software Lab	0	0	6	50	-	25	75	3
7	Computer Applications	421122 (21)	Programming in C Lab – I	0	0	6	50	-	25	75	3
8	Humanities	421123 (46)	Personality Development – I	0	0	2	-	-	50	50	1
9			Library	0	0	1	-	-	0	0	-
Total				20	5	15	500	100	200	800	32

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

Chhattisgarh Swami Vivekanand Technical University, Bilai

SCHEME OF TEACHING & EXAMINATION

SECOND SEMESTER - MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Periods per week			Scheme of Exam			Total Marks	Credits L+(T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Applications	421211 (21)	Digital Electronics	4	1	0	80	20	20	120	5
2	Computer Applications	421212 (21)	Programming in C Language	4	1	0	80	20	20	120	5
3	Applied Mathematics	421213 (14)	Mathematical Foundations of Computer Science	4	1	0	80	20	20	120	5
4	Humanities	421214 (46)	Communication Skills - II	4	1	0	80	20	20	120	5
5	Management	421215 (76)	Accounting & Management Control	4	1	0	80	20	20	120	5
6	Computer Applications	421221 (21)	Digital Electronics Lab	0	0	6	50	-	25	75	3
7	Computer Applications	421222 (21)	Programming in C Lab - II	0	0	6	50	-	25	75	3
8	Humanities	421223 (46)	Personality Development – II	0	0	2	-	-	50	50	1
9			Library	0	0	1	-	-	0	0	-
Total				20	5	15	500	100	200	800	32

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SCHEME OF TEACHING & EXAMINATION

THIRD SEMESTER - MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Periods per week			Scheme of Exam			Total Marks	Credits L+(T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Applications	421311 (21)	Data Structures	4	1	0	80	20	20	120	5
2	Computer Applications	421312 (21)	Internet & Web Technology	4	1	0	80	20	20	120	5
3	Applied Mathematics	421313 (14)	Computer Oriented Numerical Analysis	4	1	0	80	20	20	120	5
4	Computer Applications	421314 (21)	Information System Analysis, Design and Implementation	4	1	0	80	20	20	120	5
5	Computer Applications	421315 (21)	Object Oriented Methodology and C++	4	1	0	80	20	20	120	5
6	Computer Applications	421321 (21)	Data Structures Lab	0	0	6	50	-	25	75	3
7	Computer Applications	421322 (21)	Programming Lab in C++	0	0	6	50	-	25	75	3
8	Humanities	421323 (46)	Group Discussion-I	0	0	2	-	-	50	50	1
9			Library	0	0	1	-	-	0	0	-
Total				20	5	15	500	100	200	800	32

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SCHEME OF TEACHING & EXAMINATION

FOURTH SEMESTER - MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Periods per week			Scheme of Exam			Total Marks	Credits L+(T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Applications	421411 (21)	Operating System	4	1	0	80	20	20	120	5
2	Computer Applications	421412 (21)	Data base Management System	4	1	0	80	20	20	120	5
3	Computer Applications	421413 (21)	Management of Information System	4	1	0	80	20	20	120	5
4	Computer Applications	421414 (21)	Web Designing Technology (HTML,XML,ASP,JSP, C#)	4	1	0	80	20	20	120	5
5	Computer Applications	421415 (21)	Computer Organization & Architecture	4	1	0	80	20	20	120	5
6	Computer Applications	421421 (21)	Data base Management System Lab	0	0	6	50	-	25	75	3
7	Computer Applications	421422 (21)	Web Designing Technology Lab	0	0	6	50	-	25	75	3
8	Humanities	421423 (46)	Group Discussion – II	0	0	2	-	-	50	50	1
9			Library	0	0	1	-	-	0	0	-
Total				20	5	15	500	100	200	800	32

ESE: End Semester Examination CT: Class Test TA: Teacher's Assessment L: Lecture

T: Tutorial P: Practical.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

SCHEME OF TEACHING & EXAMINATION

FIFTH SEMESTER - MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Periods per week			Scheme of Exam			Total Marks	Credits L+ (T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Applications	421511 (21)	Computer Networks and Communication	4	1	0	80	20	20	120	5
2	Computer Applications	421512 (21)	Unix Operating System and Shell programming	4	1	0	80	20	20	120	5
3	Computer Applications	421513 (21)	Software Engineering	4	1	0	80	20	20	120	5
4	Management	421514 (76)	Organisational Behaviour	4	1	0	80	20	20	120	5
5	Computer Applications	421515 (21)	Programming in .Net Framework	4	1	0	80	20	20	120	5
6	Computer Applications	421521 (21)	Unix Lab	0	0	6	50	-	25	75	3
7	Computer Applications	421522 (21)	Programming in .NET Framework Lab	0	0	6	50	-	25	75	3
8	Humanities	421523 (46)	Report Writing & Seminar	0	0	3	-	-	50	50	2
Total				20	5	15	500	100	200	800	33

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P: Practical.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

SCHEME OF TEACHING & EXAMINATION

SIXTH SEMESTER - MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Periods per week			Scheme of Exam			Total Marks	Credits L+(T+P)/2
				L	T	P	Theory / Practical				
							ESE	CT	TA		
1	Computer Applications	421611 (21)	Programming in Core JAVA	4	1	0	80	20	20	120	5
2	Computer Applications	421612 (21)	Multimedia Tools and Applications	4	1	0	80	20	20	120	5
3	Computer Applications	421613 (21)	Enterprise Resource Planning	4	1	0	80	20	20	120	5
4	Computer Applications	421614 (21)	Network Programming	4	1	0	80	20	20	120	5
5	Refer Table-I		Open Elective-I	4	1	0	80	20	20	120	5
6	Computer Applications	421621 (21)	Programming in JAVA Lab - I	0	0	4	50	-	25	75	2
7	Computer Applications	421622 (21)	Multimedia Lab	0	0	4	50	-	25	75	2
8	Computer Applications	421623 (21)	Project – I	0	0	7	75	-	25	100	4
Total				20	5	15	575	100	175	850	33

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Table - I
Open Elective – I

S. No	Board of Studies	Subject Code	Subject
1	Computer Applications	421631 (21)	Digital Image Processing
2	Computer Applications	421632 (21)	Bio-Informatics
3	Computer Applications	421633 (21)	Real Time Systems
4	Management	421634 (76)	Intellectual Property Rights
5	Computer Applications	421635 (21)	Soft Computing

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.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

SEVENTH SEMESTER - MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Period/week			Scheme of Exam			Total Marks	Credit L+(T+P)/2
							Theory/Practical				
				L	T	P	ESE	CT	TA		
1	Computer Applications	421711 (21)	Programming in Advanced JAVA	4	1	0	80	20	20	120	5
2	Computer Applications	421712 (21)	Formal Languages & Automata Theory	4	1	0	80	20	20	120	5
3	Computer Applications	421713 (21)	Computer Graphics	4	1	0	80	20	20	120	5
4	Computer Applications	421714 (21)	Data Warehousing & Mining	4	1	0	80	20	20	120	5
5	Humanities	421715 (46)	Professional Communication in English	4	1	0	80	20	20	120	5
6	Computer Applications	421721 (21)	JAVA Lab - II	0	0	6	50	-	25	75	3
7	Computer Applications	421722 (21)	Computer Graphics Lab	0	0	6	50	-	25	75	3
8	Management	421723 (76)	Managerial Skills	0	0	3	-	-	50	50	2
Total				20	5	15	500	100	200	800	33

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

Chhattisgarh Swami Vivekanand Technical University, Bhilai

EIGHTH SEMESTER - MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Period/week			Scheme of Exam			Total Marks	Credit L+ (T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Applications	421811 (21)	Compiler Design	4	1	0	80	20	20	120	5
2	Computer Applications	421812 (21)	Artificial Intelligence and Expert System	4	1	0	80	20	20	120	5
3	Applied Mathematics	421813 (14)	Computer Oriented Optimization	4	1	0	80	20	20	120	5
4	Refer Table-II		Elective-II	4	1	0	80	20	20	120	5
5	Refer Table-III		Elective-III	4	1	0	80	20	20	120	5
6	Computer Applications	421821 (21)	Artificial Intelligence Lab	0	0	4	50	-	25	75	2
7	Computer Applications	421822 (21)	Software Technology Lab(Android)	0	0	4	50	-	25	75	2
8	Computer Applications	421823 (21)	Project-II	0	0	7	75	-	25	100	4
Total				20	5	15	575	100	175	850	33

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Table II: Elective – II

S. No	Board of Studies	Subject Code	Subject
1	Computer Applications	421831 (21)	Neural Network & Fuzzy Logic
2	Computer Applications	421832 (21)	Logic & Functional programming
3	Computer Applications	421833 (21)	Modelling & Simulation
4	Computer Applications	421834 (21)	Decision Support System
5	Computer Applications	421835 (21)	Pattern Recognition

Table III: Elective – III

S. No	Board of Studies	Subject Code	Subject
1	Management	421841 (76)	Managerial Economics
2	Management	421842 (76)	Technology Management
3	Management	421843 (76)	Organizational Development
4	Management	421844 (76)	Knowledge Entrepreneurship

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.

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NINTH SEMESTER - MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S. No	Board of Study	Subject Code	Subject	Period/week			Scheme of Exam			Total Marks	Credit L+ (T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Applications	421911 (21)	Design & Analysis of Algorithms	4	1	0	80	20	20	120	5
2	Computer Applications	421912 (21)	Software Project Management	4	1	0	80	20	20	120	5
3	Computer Applications	421913 (21)	Cyber Security	4	1	0	80	20	20	120	5
4	Refer Table-IV		Elective-IV	4	1	0	80	20	20	120	5
5	Refer Table-V		Elective-V	4	1	0	80	20	20	120	5
6	Computer Applications	421921 (21)	Cyber Security Lab	0	0	4	50	-	25	75	2
7	Computer Applications	421922 (21)	Software Technology Lab(PHP)	0	0	4	50	-	25	75	2
8	Computer Applications	421923 (21)	Project-III	0	0	7	75	-	25	100	4
Total				20	5	15	575	100	175	850	33

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Table IV: Elective – IV

S. No	Board of Studies	Subject Code	Subject
1	Computer Applications	421931 (21)	Natural Language Processing
2	Computer Applications	421932 (21)	Distributed Databases
3	Computer Applications	421933 (21)	Robotics & Computer Vision
4	Computer Applications	421934 (21)	Parallel Processing
5	Computer Applications	421935 (21)	Middleware Technologies

Table V: Elective – V

S. No	Board of Studies	Subject Code	Subject
1	Computer Applications	421941 (21)	Software Testing and Quality Assurance
2	Computer Applications	421942 (21)	Mobile Computing
3	Computer Applications	421943 (21)	Grid Computing
4	Computer Applications	421944 (21)	Virtualization and Cloud Computing
5	Computer Applications	421945 (21)	Big Data Analytics

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.

Chhattisgarh Swami Vivekanand Technical University, Bilai

TENTH SEMESTER- MASTER OF COMPUTER APPLICATIONS (INTEGRATED)

S.No	Board of Study	Subject Code	Subject	Scheme of Exam					Total Marks	Credit L+(T+P)/2
				Theory/Practical						
				L	T	P	ESE	TA		
1	Computer Applications	421021 (21)	Project	4	-	32	300		300	20
2	Computer Applications	421022 (21)	Seminar on Project	-	-	4		150	150	2
Total				4	0	36	300	150	450	22

The work done by the students should be worthy enough to prove the duration of computer applications project as six months.

- The certificate of the company must specify the duration of atleast 5 months.
- The Project should be based on application of technical knowledge for attempting live problems.
- Students undergone for project have to send the confirmation letter from the company within 15 days of joining .This letter will consist of information regarding Company name, Guide Name, Project Title, Project start date Etc.
- Two progress report should be sent to the college during 6 months of Project work
- The students will have to deliver a very formal seminar in the form of Power Point Presentation and 2 copies of Project Report are to be submitted.
- Independent work should be conducted by each student.