



Chhattisgarh Swami Vivekanand Technical University (CSVTV, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

BACHELOR OF COMPUTER APPLICATIONS (BCA) – FIRST SEMESTER

S. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Assessment/ Assignment hours per week	Teaching Hours/ Sem
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1.	Computer Application	Fundamentals of Information Technology	3021A01BT021	CC	3	1	0	100	20	20	140	4	1	60
2.	Computer Application	Office Automation	3021A02BT021	CC	3	1	0	100	20	20	140	4	1	60
3.	Computer Application	Programming in C – Paper I	3021A03CT021	SEC	3	1	0	100	20	20	140	4	1	60
4.	Humanities	Communication Skill	3021A04DT046	AEC	1	1	0	50	10	10	70	2	1	30
5.	Humanities	Foundation course on Ancient Indian Knowledge System	3021A05ET046	IKS	1	1	0	50	10	10	70	2	1	30
6.	Electronics & Telecom.	Digital Electronics	3021A06JT028	MDS	2	1	0	100	20	20	140	3	-	45
7.	Electronics & Telecom.	Digital Electronics (Lab)	3021A01JL028	MDS	0	0	2	40	-	20	60	1	-	30
8.	Computer Application	Office Automation (Lab)	3021A02BL021	CC	0	0	2	40	-	20	60	1	-	30
9.	Computer Application	Programming in C – Paper I (Lab)	3021A03CL021	SEC	0	0	2	40	-	20	60	1	-	30
10.	Computer Application	Operating System (DOS & WINDOWS) (Lab)	3021A04BL021	CC	0	0	2	40	-	20	60	1	-	30
11.	Civil Engineering	Environmental Science	3021A07FT020	VAC	2		0	-	-	30	30	-	-	15
12.	Humanities	Sports and Yoga	3021A05FL046	VAC	-	-	2	-	-	30	30	-	-	30
	Total				15	06	10	660	100	240	1000	23	150	450
Total Learning Hours/Semester													600	

L-Lecture, P-Practical, ESE-End semester Exam, CT-Class Test, TA-Teacher's Assessment

Note:- If a candidate does not have Mathematics at the 10+2 level, it is mandatory for them to clear the Mathematics as Bridge Course examination.

1	B	CC	Core Engineering Subjects/ Core Courses
2	C	SEC	Skilled Based Subject/ Skills Enhancement Course
3	D	AEC	Ability Enhancement Course
4	E	IKS	Indian Knowledge System
5	J	MDS	Multi Disciplinary Subjects
6	F	VAC	Human Values Management/ Value Education



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SCHEME OF TEACHING AND EXAMINATION

BACHELOR OF COMPUTER APPLICATIONS (BCA) – SECOND SEMESTER

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Assess- ment/ Assign- ment hours per week	Teachi- ng Hours
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1.	Computer Application	Computer Systems Architecture	3021B01BT021	CC	3	1	0	100	20	20	140	4	1	60
2.	Computer Application	Programming in C – Paper II	3021B02CT021	SEC	3	1	0	100	20	20	140	4	1	60
3.	Computer Application	Web Technology	3021B03CT021	SEC	3	1	0	100	20	20	140	4	1	60
4.	Computer Application	Digital Marketing & E-Commerce	3021B04JT021	MDS	1	1	0	50	10	10	70	2	1	30
5.	Humanities	Indian Culture and Constitution	3021B05ET046	IKS	1	1	0	50	10	10	70	2	1	30
6.	Applied Mathematics	Mathematical Foundation to Computer Science	3021B06BT014	CC	2	1	0	100	20	20	140	3	-	45
7.	Computer Application	Mini Project	3021B01CL021	SEC	0	0	2	40	-	20	60	1	-	30
8.	Computer Application	Programming in C – Paper II (Lab)	3021B02CL021	SEC	0	0	2	40	-	20	60	1	-	30
9.	Computer Application	Web Technology (Lab)	3021B03CL021	SEC	0	0	2	40	-	20	60	1	-	30
10	Computer Application	Linux (Lab)	3021B04BL021	CC	0	0	2	40	-	20	60	1	-	30
11.	Humanities	Health and Hygiene	3021B07FT046	VAC	2	0	0	-	-	30	30	0	-	15
12.	Humanities	Value Education	3021B05FL046	VAC	-	-	2	-	-	30	30	-	-	30
Total					15	06	10	660	100	240	1000	23	150	450
Total Learning Hours/semester													600	

L-Lecture, P-Practical, ESE-End semester Exam, CT-Class Test, TA-Teacher's Assessment

Note:- If a candidate does not have Mathematics at the 10+2 level, it is mandatory for them to clear the Mathematics as Bridge Course examination.

1	B	CC	Core Engineering Subjects/ Core Courses
2	C	SEC	Skilled Based Subject/ Skills Enhancement Course
3	D	AEC	Ability Enhancement Course
4	E	IKS	Indian Knowledge System
5	J	MDS	Multi Disciplinary Subjects
6	F	VAC	Human Values Management/ Value Education

*Exit Criteria after 1st Year BCA programme

Students will have the option to exit the Bachelor of Computer Application (BCA) program after successfully completing the 1st Year. Upon exit there will be awarded a **UG Certificate in Computer Application**.

Chhattisgarh Swami Vivekanand Technical University (CSVТУ, NEWAI (C.G.))



SCHEME OF TEACHING AND EXAMINATION

BACHELOR OF COMPUTER APPLICATIONS (BCA)

BRIDGE COURSE

S. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination	Total Marks	Credits	Assessment/Assignment hours per week	Teaching Hours/Sem
					L	T	P	Theory/Lab				
								ESE				
1.	Applied Mathematics	ALGEBRA	3021A08AT014	AEC	2	1	0	100	100	0	1	60
Total					02	01	0	100	100	0	1	60

L-Lecture, P-Practical, ESE-End semester Exam, CT-Class Test, TA-Teacher's Assessment

Note:- Abbreviations of Course category

AEC- Ability Enhancement Courses

Note:- If a candidate does not have Mathematics at the 10+2 level, it is mandatory for them to clear the Mathematics as Bridge Course examination.

Note: All (10+2) Biology, Commerce, Arts, Home Science or Agriculture student on the other hand (10+2) no mathematics students must clear the Bridge Course examination during 3 years (6 semesters) tenure of BCA Program. The end semester examination of Bridge Course will be conducted with all semester examinations.

**Chhattisgarh Swami Vivekanand Technical University, Bhilai**

CSVТУ, NEWAI (C.G.)

SCHEME OF TEACHING AND EXAMINATION**Scheme for third Semester (BCA)**

Sl.No.	Board of Studies(BOS)	Courses (Subject)	Subject Code	Course Category	PeriodperWeek			Scheme ofExamination			Total Marks	Credits	Teaching Hours/se m	Assesse nt hours (Assignme nt/ Practical file)
					L	T	P	Theory/ Lab						
								ESE	CT	TA				
1	Mathematics	Probability & Statistics	3021C01AT014	BFS-BSC	2	1	-	100	20	20	140	3	45	15
2	Computer Application	Operating System	3021C02BT021	PCC	2	1	-	100	20	20	140	3	45	15
3	Computer Application	Data Structure using C	3021C03BT021	PCC	2	1	-	100	20	20	140	3	45	15
4	Computer Application	Database Management System	3021C04CT021	SBS-PCC	2	1	-	100	20	20	140	3	45	15
5	Computer Application	Object Oriented Programming with C++	3021C05CT021	SBS-PCC	2	1	-	100	20	20	140	3	45	15
6	Humanities	LifeConceptby Bhagwat Gita	3021C06ET046	IKS	2	-	-	50	10	10	70	2	30	15
7	Computer Application	Data Structure using C Lab	3021C01BL021	PCC	-	-	2	40	-	20	60	1	30	15
8	Computer Application	Database Management System Lab	3021C02BL021	PCC	-	-	2	40	-	20	60	1	30	15
9	Computer Application	Object Oriented Programming with C++ Lab	3021C03CL021	SBS-PCC	-	-	2	40	-	20	60	1	30	15
10	Computer Application	Idea Innovation Lab	3021C04FL021	VAC		-	2	-	-	30	30	1	30	15
11	Management	Personality Development	3021C07DT076	AEC-MNC AU	1		2	-	-	20	20	-	45	15
12		Library				1		-	-			-	15	-
Total					13	6	10	670	110	220	1000	21	435	165
TotalLearningHours/Semester													600	

**Chhattisgarh Swami Vivekanand Technical University, Bhilai**

CSVТУ, NEWAI (C.G.)

SCHEME OF TEACHING AND EXAMINATION**Scheme for Fourth Semester (BCA)**

Scheme for Fourth Semester (BOS)														
Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Teaching Hours	Assessment hours (Assignment/ Practical file)
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1	Computer Application	Artificial Intelligence	3021D01BT021	PCC	3	1	-	100	20	20	140	4	60	15
2	Computer Application	Software Engineering	3021D02BT021	PCC	3	1	-	100	20	20	140	4	45	15
3	Computer Application	Computer Networks	3021D03BT021	PCC	3	1	-	100	20	20	140	4	45	15
4	Computer Application	Python Programming	3021D04CT021	SBS-PCC	2	1	-	100	20	20	140	3	45	15
5	Computer Application	Fundamentals of Data Science	3021D05BT021	PCC	1	1		50	10	10	70	2	30	15
6	Humanities	Indian Traditional Knowledge: Science and Practices	3021D06ET046	IKS	2	-	-	50	10	10	70	2	30	15
7	Computer Application	Artificial Intelligence Lab	3021D01BL021	PCC	-	-	2	40	-	20	60	1	30	15
8	Computer Application	Computer Networks Lab	3021D02BL021	PCC	-	-	2	40	-	20	60	1	30	15
9	Computer Application	Python Programming Lab	3021D03BL021	PCC	-	-	2	40	-	20	60	1	30	15
10	Computer Application	Photoshop Lab	3021D04CL021	SBS-PCC	-	-	2	40	-	20	60	1	30	15
11	Management	Entrepreneurship Development and Startups	3021D07DT076	AEC-MNC AU	2		-	-	-	30	30	-	30	15
12	Humanities	Emotional Intelligence and Social Learning	3021D08FT046	VAC-MNC AU	1					30	30		15	-
13		Library				1		-	-		-		15	-
Total					17	6	8	660	100	240	1000	23	435	165
Total Learning Hours/semester														600