



Chhattisgarh Swami Vivekanand Technical University (CSVTVU), Bhilai (C.G.)

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Third Semester – Computer Science Engineering)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Marks	Credit
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1.	Basic Science	Mathematics - III	B000311(014)	3	1	-	100	20	30	150	4
2.	Computer Science & Engg.	Data structure & Algorithms	B022312(022)	3	1	-	100	20	30	150	4
3.	Computer Science & Engg.	Principles of Programming Languages	B022313(022)	2	1	-	100	20	30	150	3
4.	Computer Science & Engg.	Digital Electronics& Logic Design	B022314(022)	2	1	-	100	20	30	150	3
5.	Computer Science & Engg.	Operating Systems	B022315(022)	2	1	-	100	20	30	150	3
6.	Computer Science & Engg.	Data structure & Algorithms Laboratory	B022321(022)		-	2	40	-	20	60	1
7.	Computer Science & Engg.	Digital Electronics& Logic Design Laboratory	B022322(022)		-	2	40	-	20	60	1
8.	Computer Science & Engg.	Operating Systems Laboratory (UNIX)	B022323(022)		-	2	40	-	20	60	1
9.	Computer Science & Engg.	Software Laboratory (Sci Lab/MATLAB)	B022324(022)		-	2	40	-	20	60	1
10.	Humanities	Personality Development	B000306(046)	-	-	2	-	-	10	10	-
Total Marks				12	5	10	660	100	240	1000	21

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam, CT- Class Test, TA-Teacher's Assessment



Chhattisgarh Swami Vivekanand Technical University (CSVTVU), Bhilai (CG)

SCHEME OF TEACHING AND EXAMINATION

Courses of Study and Scheme of Examination of B. Tech. (Computer Science Engineering) - 4th Semester

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Marks	Credit
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1.	Basic Science	Discrete Mathematics	B022411(014)	3	1	-	100	20	30	150	4
2.	Computer Science & Engg.	Computer System Architecture	B022412(022)	2	1	-	100	20	30	150	3
3.	Computer Science & Engg.	Database Management Systems	B022413(022)	3	1	-	100	20	30	150	4
4.	Computer Science & Engg.	Object Oriented Programming (with Java)	B022414(022)	2	1	-	100	20	30	150	3
5.	Computer Science & Engg.	Design & Analysis of Algorithms	B022415(022)	2	1	-	100	20	30	150	3
6.	Computer Science & Engg.	Computer Organization & Architecture Laboratory	B022421(022)	-	-	2	40	-	20	60	1
7.	Computer Science & Engg.	Object Oriented Programming Laboratory (Java)	B022422(022)	-	-	2	40	-	20	60	1
8.	Computer Science & Engg.	Database Management Systems Laboratory	B022423(022)	-	-	2	40	-	20	60	1
9.	Computer Science & Engg.	Virtual Laboratory	B022424(022)	-	-	2	40	-	20	60	1
10.	Humanities & Social Sciences	Environmental Sciences (Constitution of India)	B000406(046)	-	-	2	-	-	10	10	-
Total				12	5	10	660	100	240	1000	21
Internship-I to be completed after fourth semester exam and its evaluation to be done in fifth semester											

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam, CT- Class Test, TA-Teacher's Assessment



Chhattisgarh Swami Vivekanand Technical

University (CSVTVU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech (Fifth Semester – Computer Science & Engineering)

Sl. No.	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Computer Science & Engineering	Microprocessors & Interfaces	C022511(022)	3	1		100	20	30	150	4
2.	Computer Science Engineering	Computer Networks	C022512(022)	3	1	-	100	20	30	150	4
3.	Computer Science Engineering	Formal Languages and Automata Theory	C022513(022)	3	1	-	100	20	30	150	4
4.	Computer Science Engineering	Data Analytics with Python	C022514(022)	2	1	-	100	20	30	150	3
5.	Professional Elective-1 (Refer Table I)			2	0	-	100	20	30	150	2
6.	Computer Science Engineering	Microprocessors & Interfaces Laboratory	C022521(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engineering	Computer Networks Laboratory	C022522(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engineering	Data Analytics with Python Laboratory	C022523(022)	-	-	2	40	-	20	60	1
9.	Computer Science Engineering	Project-I based on Summer Internship/ Industrial Training	C022524(022)	-	-	2	40	-	20	60	1
10.	Civil Engg.	Environmental Studies	C000506(020)	-	-	2	-	-	10	10	-
Total				13	4	10	660	100	240	1000	21

L – Lecturer, T – Tutorial, P – Practical, CT – Class Test ESE – End Semester Exam TA – Teacher's Assessment

- **Note:** - The students have to attend the four weeks industrial training / summer internship in B. Tech program after fourth semester, which will be evaluated in fifth semester.

Table I (Professional Elective I)

S.N.	Board of Studies	Course Code	Subject
1.	Computer Science Engineering	C022531(022)	Computer Graphics
2.	Computer Science Engineering	C022532(022)	Object Oriented Analysis & Design
3.	Computer Science Engineering	C022533(022)	Digital Image Processing
4.	Computer Science Engineering	C022534(022)	Multimedia & Virtual Reality

Note: (1) 1/4th of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.

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



SCHEME OF TEACHING AND EXAMINATION

B Tech (Sixth Semester – Computer Science Engineering)

Sl. No.	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Compiler Design	C022611(022)	3	1	-	100	20	30	150	4
2.	Computer Science Engg.	Software Engineering & Project Management	C022612(022)	3	1	-	100	20	30	150	4
3.	Computer Science Engg.	Artificial Intelligence & Expert Systems	C022613(022)	3	1	-	100	20	30	150	4
4.	Professional Elective-II (Refer Table I)			2	1	-	100	20	30	150	3
5.	Open Elective – I (Refer Table III)			2	0	-	100	20	30	150	2
6.	Computer Science Engg.	Software Engineering & Project Management Laboratory	C022621(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Artificial Intelligence & Expert Systems Laboratory	C022622(022)	-	-	2	40	-	20	60	1
8.	Professional Elective –II(Lab) (Refer Table II)			-	-	2	40	-	20	60	1
9.	Computer Science Engg.	Android Application Laboratory	C022627(022)	-	-	2	40	-	20	60	1
10.	Non-Credit	Technical Communication and Soft Skill	C000601(046)	-	-	2	-	-	10	10	-
Total				13	4	10	660	100	240	1000	21

L – Lecturer
P – Practical,

T – Tutorial, TA – Teacher's Assessment
ESE – End Semester Exam,

CT –ClassTest

Table I (Professional Elective II)

S.N.	Board of Studies	Subject	Course Code
1.	Computer Science Engg	Web Technologies	C022631(022)
2.	Computer Science Engg	Internet Of Things	C022632(022)
3.	Computer Science Engg	Soft Computing	C022633(022)
4.	Computer Science Engg	Network Programming	C022634(022)

Table II (Professional Elective II Lab)

S.N.	Board of Studies	Subject	Course Code
1.	Computer Science Engg	Web Technologies lab	C022623(022)
2.	Computer Science Engg	Internet Of Things Lab	C022624(022)
3.	Computer Science Engg	Soft Computing Lab	C022625(022)
4.	Computer Science Engg	Network Programming Lab	C022626(022)

Note: (1) $\frac{1}{4}^{\text{th}}$ of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.

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



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

SCHEME OF TEACHING AND EXAMINATION

B Tech (Seventh Semester – Computer Science Engineering)

Sl. No.	Board Of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Marks	Credit
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1.	Computer Science Engg.	Machine Learning	D022711(022)	3	1	-	100	20	30	150	4
2.	Computer Science Engg.	Data Mining and Warehousing	D022712(022)	2	1	-	100	20	30	150	3
3.	Computer Science Engg.	Internet and Web Technology	D022713(022)	2	1	-	100	20	30	150	3
4.	Professional Elective –III (Refer to Table I)			1	1	-	100	20	30	150	2
5.	Open Elective- II (Refer to Table II)			2	0	-	100	20	30	150	2
6.	Computer Science Engg.	Machine Learning Lab	D022721(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Internet and Web Technology Lab	D022722(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Project (Phase I)	D022723(022)	-	-	6	60	-	40	100	3
9.	Computer Science Engg.	Industrial Training	D022724(022)			2			20	20	1
10.	Humanities	Universal Human Values 2	D000701(046)	-	-	2	-	-	10	10	-
Total Marks				10	4	14	640	100	260	1000	20

L – Lecturer, T – Tutorial, P – Practical, CT – Class Test ESE – End Semester Exam TA – Teacher's Assessment

➤ Note: - The students have to attend the four weeks industrial training / summer internship in B. Tech program after sixth semester, which will be evaluated in seventh semester.

Table I (Professional Elective III)

S.N.	Board of Studies	Course Code	Subject
1.	Computer Science Engg.	D022731(022)	Parallel and Distributed Algorithms
2.	Computer Science Engg.	D022732(022)	Cyber Security
3.	Computer Science Engg.	D022733(022)	Quantum Computing
4.	Computer Science Engg.	D022734(022)	Distributing Systems

Note: (1) 1/4th of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.

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



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

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Eight Semester – Computer Science Engineering)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Mark	Credit
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1.	Computer Science Engineering	Cyber Law and Intellectual Property	D022811(022)	3	1	-	100	20	30	150	4
2.	Professional Elective–IV (Refer to Table–I)			2	1	-	100	20	30	150	3
3.	Open Elective–III (Refer to Table–III)			2	0	-	100	20	30	150	2
4.	Computer Science Engineering	Computer Vision Laboratory	D022821(022)	-	-	2	40	-	20	60	1
5.	Computer Science Engineering	R Programming Laboratory	D022822(022)	-	-	2	40	-	20	60	1
6.	Computer Science Engineering	Project (Phase-II)	D022823(022)	-	-	14	350	-	80	430	7
Total Marks				7	2	18	730	60	210	1000	18

L – Lecturer, T – Tutorial, P – Practical, CT –Class Test, ESE – End Semester Exam, TA – Teacher’s Assessment

Table–I (Professional Elective–IV)

S.N.	Board of Studies	Course Code	Subject
1	Computer Science Engineering	D022831(022)	Introduction to Game Theory
2	Computer Science Engineering	D022832(022)	R Programming
3	Computer Science Engineering	D022833(022)	Multimedia & Computer Vision
4	Computer Science Engineering	D022834(022)	Augmented & Virtual Reality

Note: (1) 1/4th of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.

(2) Choice of elective course once made for an examination cannot be changed in future Examinations.