



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

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Third Semester – Information & Technology)

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.	Information Technology	Computer Architecture, Organization and Microprocessor	B033312(033)	3	1	-	100	20	30	150	4
3.	Information Technology	Object Oriented Concepts & Programming using JAVA	B033313(033)	3	1	-	100	20	30	150	4
4.	Information Technology	Computer Networks	B033314(033)	2	1	-	100	20	30	150	3
5.	Information Technology	Digital Electronics	B033315(033)	2	-	-	100	20	30	150	2
6.	Information Technology	Digital Electronics Lab	B033321(033)		-	2	40	-	20	60	1
7.	Information Technology	COA & Microprocessor Lab	B033322(033)		-	2	40	-	20	60	1
8.	Information Technology	Computer Networks Lab	B033323(033)		-	2	40	-	20	60	1
9.	Information Technology	Software Lab (Programming in Java)	B033324(033)		-	2	40	-	20	60	1
10.	Humanities	Personality Development	B000306(046)	-	-	2	-	-	10	10	-
Total Marks				13	4	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, Bhilai

Scheme of Teaching and Examination

BE (Information Technology) IV Semester

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Period per Week			Scheme of Examination			Total Marks	Credits
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1	Information Technology	Data Structures	B033411(033)	3	1	-	100	20	30	150	4
2	Information Technology	Database Management System	B033412(033)	3	1	-	100	20	30	150	4
3	Information Technology	Analog Electronic Circuits	B033413(033)	3	1	-	100	20	30	150	4
4	Information Technology	Operating System	B033414(033)	2	1	-	100	20	30	150	3
5	Information Technology	Internet of Things	B033415(033)	2	0	-	100	20	30	150	2
6	Information Technology	Data Structures Lab	B033421(033)	-	-	2	40	-	20	60	1
7	Information Technology	Database Management System Lab	B033422(033)	-	-	2	40	-	20	60	1
8	Information Technology	Operating System (UNIX) Lab	B033423(033)	-	-	2	40	-	20	60	1
9	Information Technology	Virtual Lab (IoT Lab)	B033424(033)	-	-	2	40	-	20	60	1
10	Humanities	Traditions, Culture & Constitution of India	B000406(046)	-	-	2	-	-	10	10	-
		Total Marks		13	4	10	660	100	240	1000	21

Note:

1. Duration of End Semester Exam of all theory papers will be of Three Hours.
2. Industrial Training of eight weeks is mandatory for B.E. student. It is to be completed in two parts.
 - The first part will be in summer after IV semester after which students have to submit a training report which will be evaluated by the college teachers during B.E. V semester.



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

SCHEME OF TEACHING AND EXAMINATION

B Tech (Fifth Semester – Information Technology)

Sl. No.	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Information Technology	Artificial Intelligence & Machine Learning	C033511(033)	3	1		100	20	30	150	4
2.	Information Technology	Theory of Computation	C033512(033)	3	1	-	100	20	30	150	4
3.	Information Technology	Principles of Communication System	C033513(033)	3	1	-	100	20	30	150	4
4.	Information Technology	Software Engineering & Project Management	C033514(033)	2	1	-	100	20	30	150	3
5.	Professional Elective-1 (Refer Table I)			2	0	-	100	20	30	150	2
6.	Information Technology	Artificial Intelligence & Machine Learning Lab	C033521(033)	-	-	2	40	-	20	60	1
7.	Information Technology	Software Engineering & Project Management Lab	C033522(033)	-	-	2	40	-	20	60	1
8.	Information Technology	Principles of Communication System Lab	C033523(033)	-	-	2	40	-	20	60	1
9.	Information Technology	Project-I based on Summer Internship/ Industrial Training	C033524(033)	-	-	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 –ClassTest ESE – End Semester Exam TA – Teacher's Assessment

➤ Note: - The students has to attended 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.	Information Technology	C033531(033)	Design and Analysis of Algorithms
2.	Information Technology	C033532(033)	Computer Vision
3.	Information Technology	C033533(033)	Multimedia Systems
4.	Information Technology	C033534(033)	Signal Processing
5.	Information Technology	C033535(033)	Artificial Neural Networks

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 – Information Technology)

Sl. No.	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Information Technology	Computer Graphics & Data Visualization	C033611(033)	3	1	-	100	20	30	150	4
2.	Information Technology	Compiler Design	C033612(033)	3	1	-	100	20	30	150	4
3.	Information Technology	Information Theory & Coding	C033613(033)	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 II)			2	0	-	100	20	30	150	2
6.	Information Technology	Computer Graphics & Data Visualization Lab	C033621(033)	-	-	2	40	-	20	60	1
7.	Information Technology	Mobile Application Development (Android) Lab	C033622(033)	-	-	2	40	-	20	60	1
8.	Information Technology	Web Application Development Lab	C033623(033)	-	-	2	40	-	20	60	1
9.	Information Technology	Project –I (Android)	C033624(033)	-	-	2	40	-	20	60	1
10.	Humanities	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 – Class Test

Table I (Professional Elective II)

S.N.	Board of Studies	Subject	Course Code
1.	Information Technology	Wireless and Mobile Communication	C033631(033)
2.	Information Technology	Parallel Computing	C033632(033)
3.	Information Technology	Advanced DBMS	C033633(033)
4.	Information Technology	Augmented and Virtual Reality	C033634(033)
5.	Information Technology	Data mining	C033635(033)

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 (Seventh Semester – Information Technology)

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.	Information Technology	Cryptography and Network Security	D033711(033)	3	1	-	100	20	30	150	4
2.	Information Technology	Cloud Computing	D033712(033)	2	1	-	100	20	30	150	3
3.	Information Technology	Enterprise Resource Planning	D033713(033)	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.	Information Technology	Cryptography and Network Security Lab	D033721(033)	-	-	2	40	-	20	60	1
7.	Information Technology	Cloud Computing Lab	D033722(033)	-	-	2	40	-	20	60	1
8.	Information Technology	Project (Phase I)	D033723(033)	-	-	6	60	-	40	100	3
9.	Information Technology	Industrial Training	D033724(033)			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.	Information Technology	D033731(033)	Natural Language Processing
2.	Information Technology	D033732(033)	Applied Fuzzy logic & Fuzzy Sets
3.	Information Technology	D033733(033)	Grid Computing
4.	Information Technology	D033734(033)	Decision Support System
5.	Information Technology	D033735(033)	Real Time Operating 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 (Eighth Semester – Information Technology)

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.	Information Technology	Big Data Analytics	D033811(033)	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.	Information Technology	Hadoop (Lab)	D033821(033)	-	-	2	40	-	20	60	1
5.	Information Technology	Simulation (Lab)	D033822(033)	-	-	2	40	-	20	60	1
6.	Information Technology	Project (Phase-II)	D033823(033)	-	-	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.	Information Technology	D033831(033)	Introduction to Data Science
2.	Information Technology	D033832(033)	Digital Image Processing
3.	Information Technology	D033833(033)	Blockchain Technology and Applications
4.	Information Technology	D033834(033)	Deep Learning Fundamentals
5.	Information Technology	D033835(033)	Cyber Security

- 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.