Chhattisgarh Swami Vivekanand Technical University (CSVTU), 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 Theory/Lab			Total Marks	Credit
				L	T	P	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	L	T	P	ESE	CT	TA	Total Marks	Credits
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 VivekanandTechnical University (CSVTU, 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 Chnation Technology	C033535(033)	Artificial Neural Networks

Note: (1) $1/4^{th}$ 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 VivekanandTechnical University
(CSVTU, NEWAI (C.G.))
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.	Non-Credit	Technical Communication and Soft Skill	C000625(033)	-	-	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.	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.

B Tech (Sixth Semester)

List of Open Elective – I (Table III) (For 6th Semester)

S.N.	Board of Studies	Subject	Course Code
1	Agriculture Engg.	Food Packaging Technology	C000601(094)
2	Agriculture Engg	Energy Management & Audit	C000602(094)
3	Agriculture Engg	Energy Conservation & Management	C000603(094)
4	Agriculture Engg	Disaster Management	C000604(094)
5	Agriculture Engg	Ecology and Sustainable Development	C000605(094)
6	Agriculture Engg	Non Conventional Energy Sources	C000606(094)
7	Mechanical Engineering	Safety Engineering	C000607(037)
8	Mechanical Engineering	Value Engineering	C000608(037)
9	Mechanical Engineering	Managing Innovation & Entrepreneurship	C000609(037)
10	Mechanical Engineering	Environment Pollution & Control	C000610(037)
11	Management	Enterprise Resource Planning	C000611(076)
12	Computer Science Engg.	Artificial Intelligence	C000612(022)
13	Computer Science Engg	Quantum Computing	C000613(022)
14	Computer Science Engg	Cyber Security	C000614(022)
15	Civil Engg	Construction engineering and management	C000615(020)
16	Civil Engg	Metro system and engineering	C000616(020)
17	Civil Engg	Infrastructure Planning and Management	C000617(020)
18	Computer Science Engg	Cyber Security	C000618(022)
19	Computer Science Engg	Parallel Processing & Computing	C000619(022)
20	Computer Science Engg	Cryptography & Network Security	C000620(022)
21	Computer Science Engg	Cloud Computing	C000621(022)
22	Electrical Engineering	Fibre Optics	C000622(024)
23	Electrical Engineering	Microcontroller and Embedded System	C000623(024)
24	Electrical Engineering	Hybrid Electric vehicle	C000624(024)
25	Electrical Engineering	Digital Control System	C000625(024)
26	Electrical and Electronics Engg	Electrical Estimation and Costing	C000626(025)
27	Electrical and Electronics Engg	Energy Auditing and Management	C000627(025)
28	Management	Finance Management	C000628(076)
29	Mechanical Engineering	Safety Engineering	C000629(037)
30	Electronics & Telecom.	AI and Machine learning	C000630(028)
31	Electronics & Telecom.	Operating Systems	C000631(028)
32	Electronics & Telecom.	Internet & Web Technology	C000632(028)
33	Electronics & Telecom.	Database Management Systems (DBMS)	C000633(028)
34	Electronics & Telecom.	Device Modelling	C000634(028)
35	Electronics & Telecom.	Introduction to MEMS	C000635(028)
36	Mechanical Engineering	Principles of Management	C000636(037)
37	Mechanical Engineering	Advanced I.C. Engines	C000637(037)

38	Mechanical Engineering	Mechanical Vibrations & Condition Monitoring	**C000638(037)**
39	Mechatronics	Entrepreneurship Developments	**C000639(067)**
40	Mechatronics	Enterprise Resource Planning (Except CSE & IT Branch)	**C000640(067)**
41	Plastic Engineering	Heat Transfer Operation	**C000641(095)**
42	Plastic Engineering	Process Economics and Management	**C000642(095)**
43	Plastic Engineering	Adhesive and Surface Coating	**C000643(095)**
44	Information Technology	E-Commerce	**C000644(033)**
45	Information Technology	Industrial Economics and Management	**C000645(033)**
46	Information Technology	Project Planning & Management	**C000646(033)**
47	Information Technology	Bio-Informatics	**C000647(033)**
48	Information Technology	Management Information System	**C000648(033)**