



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

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Third Semester – Civil 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.	Civil Engg.	Introduction to Fluid Mechanics	B020312(020)	3	1	-	100	20	30	150	4
3.	Civil Engg.	Introduction to Solid Mechanics	B020313(020)	3	1	-	100	20	30	150	4
4.	Civil Engg.	Plane Surveying	B020314(020)	3		-	100	20	30	150	3
5.	Civil Engg.	Building Materials	B020315(020)	2	-	-	100	20	30	150	2
6.	Civil Engg.	Fluid Mechanics Lab	B020321(020)	-	-	2	40	-	20	60	1
7.	Civil Engg.	Surveying Lab	B020322(020)	-	-	2	40	-	20	60	1
8.	Civil Engg.	Building Material Lab	B020323(020)	-	-	2	40	-	20	60	1
9.	Civil Engg.	Software Lab	B020324(020)	-	-	2	40	-	20	60	1
10.	Humanities	Personality Development	B000306(046)	-	-	2	-	-	10	10	-
Total Marks				14	3	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 (CSVTU), Bhilai (CG)

SCHEME OF TEACHING AND EXAMINATION

Courses of Study and Scheme of Examination B. Tech. (4th Semester) –Civil 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.	Civil Engg.	Structural Analysis-I	B020411(020)	3	1	-	100	20	30	150	4
2.	Civil Engg	Hydraulic Engineering	B020412(020)	3	1	-	100	20	30	150	4
3.	Civil Engg	Surveying and geomatics	B020413(020)	3	1	-	100	20	30	150	4
4.	Civil Engg	Building Construction	B020414(020)	3		-	100	20	30	150	3
5.	Civil Engg	Engineering Geology	B020415(020)	2		-	100	20	30	150	2
6.	Civil Engg	Hydraulics Lab	B020421(020)	-	-	2	40	-	20	60	1
7.	Civil Engg	Surveying and Geomatics Lab	B020422(020)	-	-	2	40	-	20	60	1
8.	Civil Engg	Geology Lab	B020423(020)	-	-	2	40	-	20	60	1
9.	Civil Engg	Virtual Lab	B020424(020)	-	-	2	40	-	20	60	1
10.	Non- credit course	Indian Culture and Constitution of India	B000406(046)	-	-	2	-	-	10	10	-
Total Marks				14	3	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 (CSVTV, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech (Fifth Semester - CIVIL 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.	Civil Engg.	Structural Engineering Design-I	C020511(020)	3	1	-	100	20	30	150	4
2.	Civil Engg.	Hydrology & Water Resources Engineering	C020512(020)	3	1	-	100	20	30	150	4
3.	Civil Engg.	Geotechnical Engineering	C020513(020)	3	1	-	100	20	30	150	4
4.	Civil Engg.	Transportation Engineering	C020514(020)	2	1	-	100	20	30	150	3
5.	Professional Elective –I(Refer Table I)			2	0	-	100	20	30	150	2
6.	Civil Engg.	Structural Analysis lab	C020521(020)	-	-	2	40	-	20	60	1
7.	Civil Engg.	Transportation Engineering Lab	C020522(020)	-	-	2	40	-	20	60	1
8.	Civil Engg.	Geotechnical Engineering Lab	C020523(020)	-	-	2	40	-	20	60	1
9.	Civil Engg.	Project-I based on Summer Internship/ Industrial Training	C020524(020)	-	-	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,

ESE – End Semester Exam,

CT –ClassTest

TA – Teacher's Assessment

Professional Elective I

S.N.	Board of Studies	Course Code	Subject
1	Civil Engg	C020531(020)	Structural Analysis-II
2	Civil Engg	C020532(020)	Repairs and rehabilitation of structures
3	Civil Engg	C020533(020)	Groundwater Engineering

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 – Civil 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.	Civil Engg	Structural Engineering Design-II	C020611(020)	3	1	-	100	20	30	150	4
2.	Civil Engg	Environmental Engineering	C020612(020)	3	1	-	100	20	30	150	4
3.	Civil Engg	Engineering economics, estimating and costing	C020613(020)	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.	Civil Engg	Structural Engineering Lab	C020621(020)	-	-	2	40	-	20	60	1
7.	Civil Engg	Environmental Engineering Lab	C020622(020)	-	-	2	40	-	20	60	1
8.	Civil Engg	Computer Aided Civil Engineering Drawing lab	C020623(020)	-	-	2	40	-	20	60	1
9.	Civil Engg	Concrete Technology Lab	C020624(020)	-	-	2	40	-	20	60	1
10.	Humanities	Technical Communication and Soft Skill	C000625(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.	Civil Engg	Structural Analysis by matrix method	C020631(020)
2.	Civil Engg	Concrete technology	C020632(020)
3.	Civil Engg	Traffic engineering and management	C020633(020)

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 (CSVTV, NEWAI (C.G.))

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)