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

SCHEME OF TEACHING AND EXAMINATION

B Tech (Third Semester – Electronics & Telecommunication Engineering)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Marks	Credit
							Theory/Lab				
				L	T	P	ESE	CT	TA		
1.	Basic Science	Mathematics - III	B000311(014)	3	1	-	100	20	30	150	4
2.	Electronics & Telecom.	Electronics Devices	B028312(028)	3	1	-	100	20	30	150	4
3.	Electronics & Telecom.	Digital System Design	B028313(028)	3	1	-	100	20	30	150	4
4.	Electronics & Telecom.	Network Theory	B028314(028)	2	1	-	100	20	30	150	3
5.	Electronics & Telecom.	Data structures using C++	B028315(028)	2	-	-	100	20	30	150	2
6.	Electronics & Telecom.	Electronics Devices Lab	B028321(028)	-	-	2	40	-	20	60	1
7.	Electronics & Telecom.	Digital System Design Lab	B028322(028)	-	-	2	40	-	20	60	1
8.	Electronics & Telecom.	Electronics Workshop Lab	B028323(028)	-	-	2	40	-	20	60	1
9.	Electronics & Telecom.	Software Lab	B028324(028)	-	-	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

B.E. IV Semester Electronics & Telecommunication Engineering

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.	Electronics & Telecom.	Analog Communication	**B028411(028)**	3	1	-	100	20	30	150	4
2.	Electronics & Telecom.	Analog Circuits	**B028412(028)**	3	1	-	100	20	30	150	4
3.	Electronics & Telecom.	Electromagnetic Field Theory	**B028413(028)**	2	1	-	100	20	30	150	3
4.	Electronics & Telecom.	Signals & Systems	**B028414(028)**	2	1	-	100	20	30	150	3
5.	Electronics & Telecom.	Probability Theory and Stochastic Processes	**B028415(028)**	2	1	-	100	20	30	150	3
6.	Electronics & Telecom.	Analog Communication Lab	**B028421(028)**	-	-	2	40	-	20	60	1
7.	Electronics & Telecom.	Analog circuits Lab	**B028422(028)**	-	-	2	40	-	20	60	1
8.	Electronics & Telecom.	Programming using Python lab	**B028423(028)**	-	-	2	40	-	20	60	1
9.	Electronics & Telecom.	Virtual Lab	**B028424(028)**	-	-	2	40	-	20	60	1
10.	MC Non-credit	Culture and 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 - Electronics & Telecommunication 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.	Electronics & Telecom.	Digital Communication	C028511(028)	3	1		100	20	30	150	4
2.	Electronics & Telecom.	Design of Electronics Circuit	C028512(028)	3	1	-	100	20	30	150	4
3.	Electronics & Telecom.	Microcontroller & embedded system	C028513(028)	3	1	-	100	20	30	150	4
4.	Electronics & Telecom.	Control Systems	C028514(028)	2	1	-	100	20	30	150	3
5.	Professional Elective-1 (Refer Table I)			2	0	-	100	20	30	150	2
6.	Electronics & Telecom.	Digital Communication lab	C028521(028)	-	-	2	40	-	20	60	1
7.	Electronics & Telecom.	Design of Electronics Circuit lab	C028522(028)	-	-	2	40	-	20	60	1
8.	Electronics & Telecom.	Microcontroller & embedded system lab	C028523(028)	-	-	2	40	-	20	60	1
9.	Electronics & Telecom.	Project-I based on Summer Internship/ Industrial Training	C028521(028)	-	-	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.	Electronics & Telecom.	**C028531(028)**	Computer Network
2.	Computer Science Engg..	**C022534(022)**	Computer organization & Architecture
3.	Electronics & Telecom.	**C028532(028)**	Nano Electronics
4.	Electronics & Telecom.	**C028533(028)**	Optoelectronic devices and circuits
5.	Computer Science Engg..	**C022535(022)**	Advanced Data Structures and Algorithms

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 VivekanandTechnical University

(CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech (Sixth Semester – Electronics and Telecommunication 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.	Electronics & Telecom.	VLSI Design	C028611(028)	3	1	-	100	20	30	150	4
2.	Electronics & Telecom.	Antenna & Wave Propagation	C028612(028)	3	1	-	100	20	30	150	4
3.	Electronics & Telecom.	Digital Signal Processing	C028613(028)	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.	Electronics & Telecom.	VLSI Design lab	C028621(028)	-	-	2	40	-	20	60	1
7.	Electronics & Telecom.	Digital Signal Processing lab	C028622(028)	-	-	2	40	-	20	60	1
8.	Electronics & Telecom.	Machine Learning Lab	C028623(028)	-	-	2	40	-	20	60	1
9.	Electronics & Telecom.	Soft Computing lab	C028624(028)	-	-	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.	Electronics & Telecom.	Information Theory and coding	C028631(028)
2.	Electronics & Telecom.	Microelectronics Technology	C028632(028)
3.	Electronics & Telecom.	ARM System Architecture	C028633(028)
4.	Electronics & Telecom.	Image Processing & remote sensing	C028634(028)
5.	Electronics & Telecom.	Wireless Sensor Networks	C028635(028)

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.

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Chhattisgarh Swami VivekanandTechnical University (CSVTU, 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)**

Chhattisgarh Swami VivekanandTechnical University

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SCHEME OF TEACHING AND EXAMINATION

B Tech (Sixth Semester – Electronics and Telecommunication Engineering)

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				L	T	P	ESE	CT	TA		
1.	Electronics & Telecom.	VLSI Design	C028611(028)	3	1	-	100	20	30	150	4
2.	Electronics & Telecom.	Antenna & Wave Propagation	C028612(028)	3	1	-	100	20	30	150	4
3.	Electronics & Telecom.	Digital Signal Processing	C028613(028)	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.	Electronics & Telecom.	VLSI Design lab	C028621(028)	-	-	2	40	-	20	60	1
7.	Electronics & Telecom.	Digital Signal Processing lab	C028622(028)	-	-	2	40	-	20	60	1
8.	Electronics & Telecom.	Machine Learning Lab	C028623(028)	-	-	2	40	-	20	60	1
9.	Electronics & Telecom.	Soft Computing lab	C028624(028)	-	-	2	40	-	20	60	1
10.	Humanities	Technical Communication and Soft Skill	C000601(046)	-	-	2	-	-	10	10	-
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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 ((Except CSE & IT Branch)	**C000611(076)**
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16	Civil Engg	Metro system and engineering	**C000616(020)**
17	Civil Engg	Infrastructure Planning and Management	**C000617(020)**
18	Computer Science Engg	Parallel Processing & Computing	**C000618(022)**
19	Computer Science Engg	Cryptography & Network Security	**C000619(022)**
20	Computer Science Engg	Cloud Computing	**C000620(022)**
21	Computer Science Engg	Computer Networks	**C000621(022)**
22	Computer Science Engg	Internet of Things	**C000622(022)**
23	Computer Science Engg	Data Structures and Algorithms	**C000623(022)**
24	Computer Science Engg	Big Data Analytics	**C000624(022)**
25	Electrical and Electronics Engg	Electrical Estimation and Costing	**C000625(025)**
26	Electrical and Electronics Engg	Energy Auditing and Management	**C000626(025)**
27	Management	Finance Management	**C000627(076)**
28	Mechanical Engineering	Safety Engineering	**C000628(037)**
29	Electronics & Telecom.	AI and Machine learning	**C000629(028)**
30	Electronics & Telecom.	Operating Systems	**C000630(028)**
31	Electronics & Telecom.	Internet & Web Technology	**C000631(028)**
32	Electronics & Telecom.	Database Management Systems (DBMS)	**C000632(028)**
33	Electronics & Telecom.	Device Modelling	**C000633(028)**
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35	Mechanical Engineering	Principles of Management	**C000635(037)**
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37	Mechanical Engineering	Mechanical Vibrations & Condition Monitoring	**C000637(037)**
38	Mechatronics	Entrepreneurship Developments	**C000638(067)**
39	Plastic Engineering	Heat Transfer Operation	**C000639(095)**
40	Plastic Engineering	Process Economics and Management	**C000640(095)**
41	Plastic Engineering	Adhesive and Surface Coating	**C000641(095)**
42	Information Technology	E-Commerce	**C000642(033)**
43	Information Technology	Industrial Economics and Management	**C000643(033)**
44	Information Technology	Project Planning & Management	**C000644(033)**
45	Information Technology	Bio-Informatics	**C000645(033)**
46	Information Technology	Management Information System	**C000646(033)**
47	**Chemical Engineering**	**Plant Utility & Safety Engineering**	**C000647(019)**
48	**Chemical Engineering**	**Environment Pollution & Control**	**C000648(019)**

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