



# Chhattisgarh Swami Vivekanand Technical University (CSV TU), 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
				L	T	P	Theory/Lab				
							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			Total Marks	Credit
				L	T	P	Theory / Lab				
							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 Vivekanand Technical University (CSVTV, 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 )**

<b>S.N.</b>	<b>Board of Studies</b>	<b>Course Code</b>	<b>Subject</b>
<b>1.</b>	Electronics & Telecom.	<b>C028531(028)</b>	Computer Network
<b>2.</b>	Computer Science Engg..	<b>C022534(022)</b>	Computer organization & Architecture
<b>3.</b>	Electronics & Telecom.	<b>C028532(028)</b>	Nano Electronics
<b>4.</b>	Electronics & Telecom.	<b>C028533(028)</b>	Optoelectronic devices and circuits
<b>5.</b>	Computer Science Engg..	<b>C022535(022)</b>	Advanced Data Structures and Algorithms

**Note: (1) 1/4<sup>th</sup> 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 – 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	-
<b>Total</b>				<b>13</b>	<b>4</b>	<b>10</b>	<b>660</b>	<b>100</b>	<b>240</b>	<b>1000</b>	<b>21</b>

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.	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) 1/4<sup>th</sup> 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 Vivekanand Technical University (CSVTV, NEWAI (C.G.))

## B Tech (Sixth Semester)

### List of Open Elective – I (Table III ) (For 6<sup>th</sup> 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	<b>C000638(037)</b>
39	Mechatronics	Entrepreneurship Developments	<b>C000639(067)</b>
40	Mechatronics	Enterprise Resource Planning (Except CSE & IT Branch)	<b>C000640(067)</b>
41	Plastic Engineering	Heat Transfer Operation	<b>C000641(095)</b>
42	Plastic Engineering	Process Economics and Management	<b>C000642(095)</b>
43	Plastic Engineering	Adhesive and Surface Coating	<b>C000643(095)</b>
44	Information Technology	E-Commerce	<b>C000644(033)</b>
45	Information Technology	Industrial Economics and Management	<b>C000645(033)</b>
46	Information Technology	Project Planning & Management	<b>C000646(033)</b>
47	Information Technology	Bio-Informatics	<b>C000647(033)</b>
48	Information Technology	Management Information System	<b>C000648(033)</b>