



Chhattisgarh Swami Vivekanand Technical University (CSVTVU), 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)

S.N.	Board of Studies	Course Code	Subject
1.	Electronics & Telecom.	C028531(028)	Computer Network
2.	Computer Science Engg..	C028534(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.



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	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.	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.

(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 – 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	RF & Microwave Engineering	D028711(028)	3	1	-	100	20	30	150	4
2.	Electronics & Telecom	Instrumentation & IoT	D028712(028)	2	1	-	100	20	30	150	3
3.	Electronics & Telecom	Wireless Communication	D028713(028)	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.	Electronics & Telecom	Microwave Lab	D028721(028)	-	-	2	40	-	20	60	1
7.	Electronics & Telecom	Instrumentation & IoT lab	D028722(028)	-	-	2	40	-	20	60	1
8.	Electronics & Telecom	Project (Phase I)	D028723(028)	-	-	6	60	-	40	100	3
9.	Electronics & Telecom	Industrial Training	D028724(028)			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.	Electronics & Telecom	D028731(028)	Digital Circuit Design with Verilog HDL
2.	Electronics & Telecom	D028732(028)	Adaptive Signal Processing
3.	Electronics & Telecom	D028733(028)	Industrial Automation

4.	Electronics & Telecom	D028734(028)	Speech and Audio Processing
5.	Electronics & Telecom	D028735(028)	Power Electronics

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.))

SCHEME OF TEACHING AND EXAMINATION

B Tech (Eighth Semester – Electronics and Telecommunication Engineering)

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.	Electronics & Telecom.	Advanced Communication	D028811(028)	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
6.	Electronics & Telecom.	Advanced Communication (Lab)	D028821(028)	-	-	2	40	-	20	60	1
7.	Electronics & Telecom.	Power Electronics (Lab)	D028822(028)	-	-	2	40	-	20	60	1
8.	Electronics & Telecom.	Project (Phase-II)	D028823(028)	-	-	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	Electronics & Telecom.	D028831(028)	VLSI and Microelectronics
2	Electronics & Telecom.	D028832(028)	Radar and Navigational Aids
3	Electronics & Telecom.	D028833(028)	Consumer Electronics
4	Electronics & Telecom.	D028834(028)	Smart Antennas
5	Electronics & Telecom.	D028835(028)	Bio-medical Signal Processing

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.