Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics & Telecommunication/Instrumentation/Computer Science & Engineering/Information Technology (Group-II)

Semester-I

Scheme of Studies :

S.No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+T+(P/2)
1	Humanities	2000171(046)	Communication Skills-I	2	-	1	3
2	Applied Science	2000172(014)	Applied Maths-I	2	-	1	3
3	Applied Science	2000174(015)	Applied Physics	2	-	1	3
4	Applied Science	2000178(011)	Applied Chemistry	2	-	1	3
5	Computer Science and Engineering	2000176(022)	Computer Fundamentals & Applications	2	-	0	2
6	Applied Science	2000190(015)	Applied Physics (Lab)	-	2	-	1
7	Applied Science	2000191(011)	Applied Chemistry (Lab)	-	2	-	1
8	Computer Science and Engineering	2000193(022)	Computer Fundamentals & Applications (Lab)	-	4	-	2
9	Electronics & Telecommunication Engineering	2000194(028)	Electronics Work Shop Practice	-	2	-	1
10	Humanities	2000193(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	2	-	1
11	-	-	Library	-	2	-	-
12	-	-	Co-curricular & Academic Activity Societies	-	2	-	-
Total				**10**	**16**	**04**	**20**

L - Lecture,   T - Tutorial,   P – Practical

Legend:

Lecture (L) → CI Classroom Instruction (Includes different instructional strategies i.e Lecture and others.)

Practical (P)→ LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).

Tutorial (T) → Includes sessional work (SW) (assignment, seminar, mini project etc), self Learning (SL)

Note: Leftover periods/week shall be utilized for Self Learning (SL) purpose.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics & Telecommunication/Instrumentation/Computer Science & Engineering/Information Technology (Group-II)

Semester-I

Scheme of Examination:

S.No	Board of Study	Course Code	Course Titles	Theory			Practical		Total Marks
				ESE	CT	TA	ESE	TA	
1	Humanities	2000171(046)	Communication Skills-I	70	20	30	-	-	120
2	Applied Science	2000172(014)	Applied Maths-I	70	20	30	-	-	120
3	Applied Science	2000174(015)	Applied Physics	70	20	30	-	-	120
4	Applied Science	2000178(011)	Applied Chemistry	70	20	30	-	-	120
5	Computer Science and Engineering	2000176(022)	Computer Fundamentals & Applications	70	20	30	-	-	120
6	Applied Science	2000190(015)	Applied Physics (Lab)	-	-	-	30	50	80
7	Applied Science	2000191(011)	Applied Chemistry (Lab)	-	-	-	30	50	80
8	Computer Science and Engineering	2000193(022)	Computer Fundamentals & Applications (Lab)	-	-	-	30	50	80
9	Electronics & Telecommunication Engineering	2000194(028)	Electronics Work Shop Practice	-	-	-	30	70	100
10	Humanities	2000193(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	-	-	-	60	60
Total				**350**	**100**	**150**	**120**	**280**	**1000**

ESE: End of Semester Exam,   CT: Class Test,   TA: Teachers Assessment

Legend: PRA: Process Assessment, PDA: Product Assessment

Note : i. TA in Theory includes Sessional work (SW) and Attandance (ATT) with weightage of 70% and 30% of total respectively.

ii. TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii. 85% attendance is essential in theory & Practical classes to appear in examination.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics & Telecommunication/Instrumentation/Computer Science & Engineering/Information Technology (Group-II)

Semester-II

Scheme of Studies:

S.No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+T+(P/2)
1	Humanities	2000271(046)	Communication Skills-II	2	-	1	3
2	Applied Science	2000272(014)	Applied Maths-II	2	-	1	3
3	Civil Engineering	2000273(020)	Environmental Engineering & Sustainable Development	2	-	1	3
4	Computer Science and Engineering	2022274(022)	Programming in 'C'	2	-	1	3
5	Electronics & Telecommunication Engineering	2028275(028)	Basic Electronics Engineering	2	-	1	3
6	Computer Science and Engineering	2022290(022)	Programming in 'C' (Lab)	-	4	-	2
7	Electronics & Telecommunication Engineering	2028291(028)	Basic Electronics Engineering (Lab)	-	4	-	2
8	Humanities	2000292(046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	2	-	1
9	-	-	Library	-	2	-	-
10	-	-	Co-curricular & Academic Activity Societies	-	2	-	-
	Total			10	14	05	20

L - Lecture,   T - Tutorial,   P – Practical

Legend:

Lecture (L) → CI Classroom Instruction (Includes different instructional strategies i.e Lecture and others.)

Practical (P)→ LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other

locations using different instructional strategies).

Tutorial (T) → Includes sessional work (SW) (assignment, seminar, mini project etc), self Learning (SL)

Note: Leftover periods/week shall be utilized for Self Learning (SL) purpose.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics & Telecommunication/Instrumentation/Computer Science & Engineering/Information Technology (Group-II)

Semester-II

Scheme of Examinations:

S.No	Board of Study	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical		
				ESE	CT	TA	ESE	TA	
1	Humanities	2000271(046)	Communication Skills-II	70	20	30	-	-	120
2	Applied Science	2000272(014)	Applied Maths-II	70	20	30	-	-	120
3	Civil Engineering	2000273(020)	Environmental Engineering & Sustainable Development	70	50	30	-	-	150
4	Computer Science and Engineering	2022274(022)	Programming in 'C'	70	50	50	-	-	170
5	Electronics & Telecommunication Engineering	2028275(028)	Basic Electronics Engineering	70	50	50	-	-	170
6	Computer Science and Engineering	2022290(022)	Programming in 'C' (Lab)	-	-	-	30	70	100
7	Electronics & Telecommunication Engineering	2028291(028)	Basic Electronics Engineering (Lab)	-	-	-	30	70	100
8	Humanities	2000292(046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	-	-	-	70	70
	Total			**350**	**190**	**190**	**60**	**210**	**1000**

ESE: End of Semester Exam,   CT: Class Test,   TA: Teachers Assessment

Legend: PRA: Process Assessment, PDA: Product Assessment

Note : i.   TA in Theory includes Sessional work (SW) and Attandance (ATT) with weightage of 70% and 30% of total respectively.

ii. TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii. 85% attendance is essential in theory & Practical classes to appear in examination.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics and Telecommunication

Semester – III

Scheme of Studies :

S.No.	Board of Study	Course Code	Course Titles	L	P	T	Credit L+T+(P/2)
1	ET&T	2028371(028)	Network Analysis	2	-	1	3
2	ET&T	2028372(028)	Instrumentation and Measurement system	3	-	-	3
3	ET&T	2028373(028)	Analog Electronic Circuit-I	3	-		3
4	ET&T	2028374(028)	Digital Electronics	2	-	1	3
5	Electrical	2028375(024)	Basic of Electrical Engineering	2	-	1	3
6	ET&T	2028361(028)	Network Analysis (Lab)	-	2	-	1
7	ET&T	2028362(028)	Instrumentation and Measurement system (Lab)	-	2	-	1
8	ET&T	2028363(028)	Analog Electronic Circuit-I (Lab)	-	2	-	1
9	ET&T	2028364(028)	Digital Electronics (Lab)	-	2	-	1
10	Electrical	2028365(024)	Basic of Electrical Engineering (Lab)	-	2	-	1
11	Humanities	-	Health Hygiene and Yoga	-	2	-	-
12	-	-	Library	-	2	-	-
Total				**12**	**14**	**03**	**20**

L- Lecture,   T- Tutorial,   P- Practical,

Lecture (L)→ CL Classroom Instruction (Includes different instructional Strategies i.e Lecture and others.)

Practical (P)→ Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).

Tutorial (T)→ Includes sessional work (SW) (assignment, seminar, mini project etc), Self Learing (SL)

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics and Telecommunication

Semester – III

Scheme of Examination:

S.No.	Board of Study	Course Code	Course Titles	Scheme of Examination					
				Theory			Practical		Total Marks
				ESE	CT	TA	ESE	TA	
1	ET&T	2028371 (028)	Network Analysis	70	20	30	-	-	120
2	ET&T	2028372 (028)	Instrumentation and Measurement System	70	20	30	-	-	120
3	ET&T	2028373 (028)	Analog Electronic Circuit-I	70	20	30	-	-	120
4	ET&T	2028374 (028)	Digital Electronics	70	20	30	-	-	120
5	Electrical	2028375 (024)	Basic of Electrical Engineering	70	20	30	-	-	120
6	ET&T	2028361 (028)	Network analysis (Lab)	-	-	-	30	50	80
7	ET&T	2028362 (028)	Instrumentation and Measurement System (Lab)	-	-	-	30	50	80
8	ET&T	2028363 (028)	Analog Electronic Circuit-I (Lab)	-	-	-	30	50	80
9	ET&T	2028364 (028)	Digital Electronics (Lab)	-	-	-	30	50	80
10	Electrical	2028365 (024)	Basic of Electrical Engineering (Lab)	-	-	-	30	50	80
			Total	**350**	**100**	**150**	**150**	**250**	**1000**

ESE: End semester exam   CT: Class Test   TA: Teachers Assessment

Note:

i) TA in theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% total respectively.

ii) TA in Practical includes performance of PRA, PDA and Viva- Voice with weightage of 50%, 40% and 10% of total respectively.

iii) 85% attendance is essential in theory & Practical classes appear in examination.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics and Telecommunication

Semester – IV

Scheme of Studies:

S.No.	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+T+(P/2)
1	ET&T	2028471 (028)	Microcontroller & it's Application	3	-	-	3
2	ET&T	2028472 (028)	Communication System-I	3	-	-	3
3	Electrical	2028473 (024)	Power Electronics	2	-	1	3
4	ET&T	2028474 (028)	Analog Electronic Circuit-II	2	-	1	3
5	ET&T	2028475 (028)	Programmable Logic Controller (PLC) and Supervisory control and Data Acquisition (SCADA)	3	-	-	3
6	ET&T	2028461 (028)	Microcontroller & it's Application (Lab)	-	2	-	1
7	ET&T	2028462 (028)	Communication System-I (Lab)	-	2	-	1
8	Electrical	2028463 (024)	Power Electronics (Lab)	-	2	-	1
9	ET&T	2028464 (028)	Analog Electronic Circuit-II (Lab)	-	2	-	1
10	ET&T	2028465 (028)	Programmable Logic Controller (PLC) and Supervisory control and Data Acquisition (SCADA) (Lab)	-	2	-	1
11	-	-	Library	-	2	-	-
12	-	-	Career counseling/ Emerging technologies in the field of electronics and telecommunication	2	-	-	-
Total				**15**	**12**	**02**	**20**

L- Lecture,   T- Tutorial,   P- Practical,

Lecture (L)→ CL Classroom Instruction (Includes different instructional Strategies i.e Lecture and others.)
Practical (P)→ Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).
Tutorial (T)→ Includes sessional work (SW) (assignment, seminar, mini project etc), Self Learing (SL)
Note: - Four weeks industrial Training will be organized after 4th Semester examination and its valuation will be done in 5th semester

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics and Telecommunication

Semester – IV

Scheme of Examination:

S.No.	Board of Study	Course Code	Course Titles	Scheme of Examination					
				Theory			Practical		Total Marks
				ESE	CT	TA	ESE	TA	
1	ET&T	2028471 (028)	Microcontroller & it's Application	70	20	30	-	-	120
2	ET&T	2028472 (028)	Communication System-I	70	20	30	-	-	120
3	Electrical	2028473 (024)	Power Electronics	70	20	30	-	-	120
4	ET&T	2028474 (028)	Analog Electronic Circuit-II	70	20	30	-	-	120
5	ET&T	2028475 (028)	Programmable Logic Controller (PLC) and Supervisory control and Data Acquisition (SCADA)	70	20	30	-	-	120
6	ET&T	2028461 (028)	Microcontroller & it's Application (Lab)	-	-	-	30	50	80
7	ET&T	2028462 (028)	Communication System-I (Lab)	-	-	-	30	50	80
8	Electrical	2028463 (024)	Power Electronics (Lab)	-	-	-	30	50	80
9	ET&T	2028464 (028)	Analog Electronic Circuit-II (Lab)	-	-	-	30	50	80
10	ET&T	2028465 (028)	Programmable Logic Controller (PLC) and Supervisory control and Data Acquisition (SCADA)(Lab)	-	-	-	30	50	80
Total				350	100	150	150	250	1000

ESE: End semester exam   CT: Class Test   TA: Teachers Assessment

Note:

i) TA in theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% total respectively.

ii) TA in Practical includes performance of PRA, PDA and Viva- Voice with weightage of 50%, 40% and 10% of total respectively.

iii) 85% attendance is essential in theory & Practical classes appear in examination.

iv) Four weeks industrial Training will be organized after 4th Semester examination and its evaluation will be done in 5th semester

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics & Telecommunication Engineering

Semester - V

Scheme of Studies: Session-2020

S.No.	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)				
				L	P	T	*SL	Credit L+T+(P/2)
1	ET&T	2028571 (028)	Antenna & Microwave	2	-	1	*	3
2	ET&T	2028572 (028)	Communication System - II	2	-	1	*	3
3	ET&T	2028573 (028)	Satellite & RADAR Communication	2	-	1	*	3
4	ET&T	2028574 (028)	Consumer Electronics	2	-	1	*	3
5	ET&T	2028561 (028)	Antenna & Microwave (Lab)	-	4	-	-	2
6	ET&T	2028562 (028)	Communication System - II (Lab)	-	4	-	-	2
7	ET&T	2028563 (028)	Satellite & RADAR Communication (Lab)	-	4	-	-	2
8	ET&T	2028564 (028)	Consumer Electronics (Lab)	-	2	-	-	1
9	ET&T	2028565 (028)	Industrial Training	-	2	-	-	1
10	Humanities	--	Non Credit Subject (NSS/Sports/Yoga/Library Activities)	-	4	-	-	-
			Total	8	20	4	-	20

Lecture (L) → Classroom Instruction (CI) includes different instructional Strategies.

Practical (P) →Laboratory Instruction (LI) includes practical performances in Laboratory, workshop, field or other locations using different instructional strategies.

Tutorial (T) →Sessional work (SW) includes assignment, seminar, mini project etc.

*Self Learning (SL) →Leftover hours/week i.e. 5 hours/week shall be equally allocated among faculty members to make up 36 hours/week.

Note: SW & SL has to be planned and performed under the continuous guidance and feedback of teacher to ensure outcome of Learning.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics & Telecommunication Engineering

Semester - V

Scheme of Examination:

S.No.	Board of Study	Course Code	Course Titles	Scheme of Examination					
				Theory			Practical		Total Marks
				ESE	CT	TA	ESE	TA	
1	ET&T	2028571 (028)	Antenna & Microwave	70	30	30	-	-	130
2	ET&T	2028572 (028)	Communication System - II	70	30	30	-	-	130
3	ET&T	2028573 (028)	Satellite & RADAR Communication	70	30	30	-	-	130
4	ET&T	2028574 (028)	Consumer Electronics	70	30	30	-	-	130
5	ET&T	2028561 (028)	Antenna & Microwave (Lab)	-	-	-	30	50	80
6	ET&T	2028562 (028)	Communication System - II (Lab)	-	-	-	30	50	80
7	ET&T	2028563 (028)	Satellite & RADAR Communication (Lab)	-	-	-	30	50	80
8	ET&T	2028564 (028)	Consumer Electronics (Lab)	-	-	-	30	50	80
9	ET&T	2028565 (028)	Industrial Training	-	-	-	80	80	160
10	Humanities	--	Non Credit Subject (NSS/Sports/Yoga/Library Activities)	-	-	-	-	-	-
Total				**280**	**120**	**120**	**200**	**280**	**1000**

ESE: End semester exam   CT: Class Test   TA: Teachers Assessment

Note:
i.   TA in theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% total respectively.
ii. TA in Practical includes performance of PRA, PDA and Viva- Voice with weightage of 50%, 40% and 10% of total respectively.
iii. 85% attendance is essential in theory & Practical classes appear in examination.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics & Telecommunication Engineering

Semester - VI

Scheme of Studies:

S. No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)				
				L	P	T	*SL	Credit L+T+(P/2)
1	ET&T	2028671(028)	Cellular and Optical Communication	2	-	1	*	3
2	ET&T	2028672(028)	Computer Network	2	-	1	*	3
3	Mechanical Engineering	2028673(037)	Entrepreneurship Development and Management	3	-	-	-	3
4	ET&T		**Elective (Any One)**	2	-	1	*	3
		2028681(028)	**Embedded System and VLSI Technology**					
		2028682(028)	**Internet of Things (IoT)**					
5	ET&T	2028661(028)	Cellular and Optical Communication (Lab)	-	2	-	-	1
6	ET&T	2028662(028)	Computer Network (Lab)	-	4	-	-	2
7	ET&T	2028663(028)	Electronics Simulation (Lab)	-	4	-	*	2
8	ET&T		**Elective (Any One)**	-	2	-	-	1
		2028691(028)	**Embedded System and VLSI Technology (Lab)**					
		2028692(028)	**Internet of Things (IoT) (Lab)**					
9	ET&T	2028664(028)	Major Project	-	4	-	-	2
10	Humanities	--	Non Credit Subject (NSS/Sports/Yoga/Library Activities)	-	4	-	-	-
Total				**09**	**20**	**03**	**-**	**20**

Lecture (L) → Classroom Instruction (CI) includes different instructional Strategies.

Practical (P) →Laboratory Instruction (LI) includes practical performances in Laboratory, workshop, field or other locations using different instructional strategies.

Tutorial (T) → Sessional work (SW) includes assignment, seminar, mini project etc.

*Self Learning (SL) →Leftover hours/week i.e. 4 hours/week shall be equally allocated among faculty members to make up 36 hours/week.

Note: SW & SL has to be planned and performed under the continuous guidance and feedback of teacher to ensure outcome of Learning.

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Electronics & Telecommunication Engineering

Semester - VI

Scheme of Examination:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical		
				ESE	CT	TA	ESE	TA	
1	ET&T	2028671 (028)	Cellular and Optical Communication	70	30	30	-	-	130
2	ET&T	2028672 (028)	Computer Network	70	30	30	-	-	130
3	Mechanical Engineering	2028673 (037)	Entrepreneurship Development and Management	70	30	30	-	-	130
4	ET&T		**Elective (Any One)**	70	30	30	-	-	130
		2028681 (028)	**Embedded System and VLSI Technology**						
		2028682 (028)	**Internet of Things (IoT)**						
5	ET&T	2028661 (028)	Cellular and Optical Communication (Lab)	-	-	-	30	50	80
6	ET&T	2028662 (028)	Computer Network (Lab)	-	-	-	30	50	80
7	ET&T	2028663 (028)	Electronics Simulation (Lab)	-	-	-	30	50	80
8	ET&T		**Elective (Any One) Lab**	-	-	-	30	50	80
		2028691 (028)	**Embedded System and VLSI Technology (Lab)**						
		2028692 (028)	**Internet of Things (IoT) (Lab)**						
9	ET&T	2028664 (028)	Major Project	-	-	-	80	80	160
10	Humanities	--	Non Credit Subject (NSS/Sports/Yoga/Library Activities)	-	-	-	-	-	-
Total				**280**	**120**	**120**	**200**	**280**	**1000**

ESE: End semester exam   CT: Class Test   TA: Teachers Assessment

Note:
i)   TA in theory includes Sessional work (SW) and Attendance (ATT) with weightage of 70% and 30% total respectively.
ii)   TA in Practical includes performance of PRA, PDA and Viva- Voice with weightage of 50%, 40% and 10% of total respectively.
iii) 85% attendance is essential in theory & Practical classes appear in examination.