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

Scheme of Teaching and Examination

M. Tech. (High Voltage Engineering) in the Department of Electrical Engineering

1st Semester

S. No.	Board of Study	Subject Code	Subject	Periods per Week			Scheme of Exam Theory/Practical			Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Electrical Engineering	5100111(024)	Mathematical Methods for Power Engineering	3	1	-	100	20	20	140	4
2	Electrical Engineering	5100112(024)	High Voltage Engineering & Measurement	3	1	-	100	20	20	140	4
3	Electrical Engineering	5100113(024)	Power System Protection	3	1	-	100	20	20	140	4
4	Electrical Engineering	5100114(024)	High Voltage AC/DC Transmission	3	1	-	100	20	20	140	4
5	Refer Table – I		Elective – I	3	1	-	100	20	20	140	4
6	Electrical Engineering	5100121(024)	High Voltage Engineering Lab-1	-	-	3	75	-	75	150	2
7	Electrical Engineering	5100122(024)	Power System Protection Lab	-	-	3	75	-	75	150	2
Total				15	5	6	650	100	250	1000	24

Table – I

	Elective – I		
S. No.	Board of Study	Subject Code	Subject
1	Electrical Engineering	5100131(024)	Power Electronics for Renewable Sources
2	Electrical Engineering	5100132(024)	Physics for Dielectrics
3	Electrical Engineering	5100133(024)	Analysis of Electrical Machine
4	Electrical Engineering	5100134(024)	Power System Dynamics & Control

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam, CT- Class Test, TA-Teacher's Assessment

Note: 1. 1/4th of total strength of students subject to minimum of four students is required to offer an elective in the college in a Particular academic session.

2. Choice of elective course once made for an examination can be changed in future examinations

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

Scheme of Teaching and Examination

M. Tech. (High Voltage Engineering) in the Department of Electrical Engineering

2nd Semester

S. No.	Board of Study	Subject Code	Subject	Periods per Week			Scheme of Exam Theory/Practical			Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Electrical Engineering	5100211(024)	Optimization Techniques	3	1	-	100	20	20	140	4
2	Electrical Engineering	5100212(024)	High Voltage Testing Techniques	3	1	-	100	20	20	140	4
3	Electrical Engineering	5100213(024)	Computer Aided Power System	3	1	-	100	20	20	140	4
4	Electrical Engineering	5100214(024)	Advanced High Voltage Protection System	3	1	-	100	20	20	140	4
5	Refer Table – 1I		Elective – II	3	1	-	100	20	20	140	4
6	Electrical Engineering	5100221(024)	High Voltage Engineering Lab-II	-	-	3	75	-	75	150	2
7	Electrical Engineering	5100222(024)	Computer Aided Power System Lab	-	-	3	75	-	75	150	2
	Total			15	5	6	650	100	250	1000	24

Table – II

Elective – II			
S. No.	Board of Study	Subject Code	Subject
1	Electrical Engineering	5100231(024)	Computation of Electromagnetics
2	Electrical Engineering	5100232(024)	Distribution System Planning, Management and Automation
3	Electrical Engineering	5100233(024)	Substation Designing
4	Electrical Engineering	5100234(024)	Electrical Power Quality Analysis

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam, CT- Class Test, TA-Teacher's Assessment

Note: 1. 1/4th of total strength of students subject to minimum of four students is required to offer an elective in the college in a Particular academic session.
2. Choice of elective course once made for an examination can be changed in future examinations

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

Scheme of Teaching and Examination

M. Tech. (High Voltage Engineering) in the Department of Electrical Engineering

3rd Semester

S. No	Board of Study	Subject Code	Subject	Periods per Week			Scheme of Exam Theory/Practical			Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Electrical Engineering	5100311(024)	Insulation & Design of High Voltage Power Apparatus	3	1	-	100	20	20	140	4
2	**Refer Table-III**		**Elective-III**	3	1	-	100	20	20	140	4
3	Electrical Engineering	5100321(024)	Preliminary Project	-	-	28	100	-	100	200	14
4	Electrical Engineering	5100322(024)	Seminar	-	-	3	-	-	20	20	2
Total				**6**	**2**	**31**	**300**	**40**	**160**	**500**	**24**

Table – III

	Elective – III		
Sl. No.	Board of Study	Subject Code	Subject
1	Electrical Engineering	5100331(024)	Distributed Generation & Micro Grid
2	Electrical Engineering	5100332(024)	Industrial Load Modeling & Control
3	Electrical Engineering	5100333(024)	Engineering Soft Computing
4	Electrical Engineering	5100334(024)	Energy Audit & Financial Management

L-Lecture   T-Tutorial   P-Practical

CT-Class Test   TA-Teacher Assessment   ESE-End Semester Exam

Note: (1) 1/4th of total strength of students subject to minimum of twenty students is required to offer an 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 (CSVTU), Bhilai (C.G.)

Scheme of Teaching and Examination

M. Tech. (High Voltage Engineering) in the Department of Electrical Engineering

4th Semester

Sl. No.	Board of Study	Subject Code	Subject	Periods per Week		Scheme of Exam Theory/Practical				Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Electrical Engineering	5100421(024)	Dissertation + Seminar + Viva-Voce	6	-	34	300	-	200	500	23
Total				6	-	34	300	-	200	500	23

L-Lecture   T-Tutorial   P-Practical

CT-Class Test   TA-Teacher Assessment   ESE-End Semester Exam

Scheme of Marks Allotment

Semester	Total Marks	Grand Total
I	1000	
II	1000	3000
III	500	
IV	500	