



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Civil/Electrical/EEE/Mining & Mine Surveying (Group-IA)

Semester-I

Scheme of Studies:

Session-2020

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	Civil Engineering	2000175(020)	Environmental Engineering & Sustainable Development	2	-	1	3
4	Applied Science	2000174(015)	Applied Physics	2	-	1	3
5	Mechanical Engineering	2000179(037)	Basic Non-Conventional Energy Sources	1	-	1	2
6	Computer Science and Engineering	2000176(022)	Computer Fundamentals & Applications	2	-	0	2
7	Applied Science	2000190(015)	Applied Physics (Lab)	-	2	-	1
8	Mechanical Engineering	2000191(037)	Basic Non-Conventional Energy Sources (Lab)	-	2	-	1
9	Computer Science and Engineering	2000193(022)	Computer Fundamentals & Applications (Lab)	-	4	-	2
10	Humanities	2000195(046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	2	-	1
11	-	-	Library	-	2	-	-
12	-	-	Co-curricular & Academic Activity Societies	-	2	-	-
Total				11	14	05	21

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 (6 periods/week) shall be utilized for Self Learning (SL) purpose.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Civil/Electrical/EEE/Mining & Mine Surveying (Group-IA)

Semester-I

Session-2020

Scheme of Examinations:

S. No	Board of Study	Course Code	Course Titles	Scheme of Examination					
				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	Civil Engineering	2000175(020)	Environmental Engineering & Sustainable Development	70	50	30	-	-	150
4	Applied Science	2000174(015)	Applied Physics	70	20	30	-	-	120
5	Mechanical Engineering	2000179(037)	Basic Non-Conventional Energy Sources	-	-	70	-	-	70
6	Computer Science and Engineering	2000176(022)	Computer Fundamentals & Applications	70	20	30	-	-	120
7	Applied Science	2000190(015)	Applied Physics (Lab)	-	-	-	30	50	80
8	Mechanical Engineering	2000191(037)	Basic Non-Conventional Energy Sources (Lab)	-	-	-	30	50	80
9	Computer Science and Engineering	2000193(022)	Computer Fundamentals & Applications (Lab)	-	-	-	30	50	80
10	Humanities	2000195(046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	-	-	-	60	60
Total				350	130	220	90	210	1000

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

Legend: PRA: Process Assessment, PDA: Product Assessment

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



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Civil/Electrical/EEE/Mining & Mine Surveying (Group-IA)

Semester-II

Session-2020

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	Mechanical Engineering	2000275(037)	Applied Mechanics	2	-	1	3
4	Applied Science	2000278(011)	Applied Chemistry	2	-	1	3
5	Mechanical Engineering	2000277(037)	Engineering Drawing	2	-	1	3
6	Mechanical Engineering	2000276(037)	WorkShop Practice (Theory)	1	-	-	1
7	Mechanical Engineering	2000290(037)	Applied Mechanics (Lab)	-	2	-	1
8	Applied Science	2000291(011)	Applied Chemistry (Lab)	-	2	-	1
9	Mechanical Engineering	2000292(037)	Engineering Drawing (Practical)	-	2	-	1
10	Mechanical Engineering	2000294(037)	WorkShop Practice (Practical)	-	4	-	2
11	Humanities	2000293(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	2	-	1
12	-	-	Library	-	2	-	-
13	-	-	Co-curricular & Academic Activity Societies	-	2	-	-
Total				11	16	05	22

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 (4 periods/week) shall be utilized for Self Learning (SL) purpose.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Civil/Electrical/EEE/Mining & Mine Surveying (Group-IA)

Semester-II

Scheme of Examination:

Session-2020

S.No	Board of Study	Course Code	Course Titles	Scheme of Examination					
				Theory			Practical		Total Marks
				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	Mechanical Engineering	2000275(037)	Applied Mechanics	70	20	30	-	-	120
4	Applied Science	2000278(011)	Applied Chemistry	70	20	30	-	-	120
5	Mechanical Engineering	2000277(037)	Engineering Drawing	70	20	30	-	-	120
6	Mechanical Engineering	2000276(037)	WorkShop Practice (Theory)	-	-	30	-	-	30
7	Mechanical Engineering	2000290(037)	Applied Mechanics (Lab)	-	-	-	30	50	80
8	Applied Science	2000291(011)	Applied Chemistry (Lab)	-	-	-	30	50	80
9	Mechanical Engineering	2000292(037)	Engineering Drawing (Practical)	-	-	-	30	50	80
10	Mechanical Engineering	2000294(037)	WorkShop Practice (Practical)	-	-	-	50	30	80
11	Humanities	2000293(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	-	-	-	50	50
Total				350	100	180	140	230	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 Attendance (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 Mining & Mine Surveying

Semester - III

Scheme of Studies:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+T+P/2
1	Mining & Mine Surveying	2093371(093)	Introductory Mining Technology	2	-	1	3
2	Mining & Mine Surveying	2093372(093)	Introductory Mine Surveying	2	-	1	3
3	Mechanical Engineering	2093375(037)	Basic Engineering Sciences	3	-	1	4
4	Mining & Mine Surveying	2093373(093)	Mine Environment	2	-	1	3
5	Mining & Mine Surveying	2093374(093)	Mine Supports	2	-	1	3
6	Mining & Mine Surveying	2093361(093)	Introductory Mine Surveying (Lab)	-	2	-	1
7	Mining & Mine Surveying	2093362(093)	Mine Environment (Lab)	-	2	-	1
8	Mechanical Engineering	2093363(037)	Basic Engineering Sciences (Lab)	-	2	-	1
9	Mining & Mine Surveying	2093364(093)	Industrial Visit	-	2	-	1
10	Humanities	-	Personality Development	-	0	1	0
Total				11	8	6	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) --> SL : Self Learning.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Mining & Mine Surveying

Semester - III

Scheme of Examination:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Examination					
				Theory			Practical		Total Marks
				ESE	CT	TA	ESE	TA	
1	Mining & Mine Surveying	2093371(093)	Introductory Mining Technology	70	20	30	-	-	120
2	Mining & Mine Surveying	2093372(093)	Introductory Mine Surveying	70	20	30	-	-	120
3	Mechanical Engineering	2093375(037)	Basic Engineering Sciences	70	20	30	-	-	120
4	Mining & Mine Surveying	2093373(093)	Mine Environment	70	20	30	-	-	120
5	Mining & Mine Surveying	2093374(093)	Mine Supports	70	20	30	-	-	120
6	Mining & Mine Surveying	2093361(093)	Introductory Mine Surveying (Lab)	-	-	-	40	60	100
7	Mining & Mine Surveying	2093362(093)	Mine Environment (Lab)	-	-	-	40	60	100
8	Mechanical Engineering	2093363(037)	Basic Engineering Sciences (Lab)	-	-	-	40	60	100
9	Mining & Mine Surveying	2093364(093)	Industrial Visit	-	-	-	40	60	100
10	Humanities	-	Personality Development	-	-	-	-	0	0
Total				350	100	150	160	240	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 Attendance (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 appear in examination.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Mining & Mine Surveying

Semester - IV

Scheme of Studies:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+T+P/2
1	Electrical Engineering	2093471(024)	Mine Electrical Engineering	2	-	1	3
2	Mining & Mine Surveying	2093472(093)	Mining Geology	2	-	1	3
3	Mining & Mine Surveying	2093473(093)	Mine Legislation	2	-	1	3
4	Mining & Mine Surveying	2093474(093)	Mine Surveying	3	-	1	4
5	Mining & Mine Surveying	2093475(093)	Coal Mining Technology	2	-	1	3
6	Electrical Engineering	2093461(024)	Mine Electrical Engineering (Lab)	-	2	-	1
7	Mining & Mine Surveying	2093462(093)	Mining Geology (Lab)	-	2	-	1
8	Mining & Mine Surveying	2093463(093)	Mine Surveying (Lab)	-	2	-	1
9	Mining & Mine Surveying	2093464(093)	Industrial Training	-	2	-	1
10	-	-	Sports	-	0	1	0
Total				11	08	06	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) --> SL : Self Learning.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Mining & Mine Surveying

Semester - IV

Scheme of Examination:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Examination					
				Theory			Practical		Total Marks
				ESE	CT	TA	ESE	TA	
1	Electrical Engineering	2093471(024)	Mine Electrical Engineering	70	20	30	-	-	120
2	Mining & Mine Surveying	2093472(093)	Mining Geology	70	20	30	-	-	120
3	Mining & Mine Surveying	2093473(093)	Mine Legislation	70	20	30	-	-	120
4	Mining & Mine Surveying	2093474(093)	Mine Surveying	70	20	30	-	-	120
5	Mining & Mine Surveying	2093475(093)	Coal Mining Technology	70	20	30	-	-	120
6	Electrical Engineering	2093461(024)	Mine Electrical Engineering (Lab)	-	-	-	40	60	100
7	Mining & Mine Surveying	2093462(093)	Mining Geology (Lab)	-	-	-	40	60	100
8	Mining & Mine Surveying	2093463(093)	Mine Surveying (Lab)	-	-	-	40	60	100
9	Mining & Mine Surveying	2093464(093)	Industrial Training	-	-	-	40	60	100
10	-	-	Sports	-	-	-	-	0	0
Total				350	100	150	160	240	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 Attendance (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.
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Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Mining & Mine Surveying

Semester - V

Scheme of Studies:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+T+P/2
1	Mechanical Engineering	2093571(037)	Entrepreneurship Development	2	-	1	3
2	Mining & Mine Surveying	2093572(093)	Mine Disasters	3	-	1	4
3	Mining & Mine Surveying	2093573(093)	Metal Mining Technology	2	-	1	3
4	Mining & Mine Surveying	2093574(093)	Mine Mechanisation	2	-	1	3
5	Mining & Mine Surveying	2093575(093)	Blasting Technology	2	-	1	3
6	Mining & Mine Surveying	2093561(093)	Mine Disasters (Lab)	-	2	-	1
7	Mining & Mine Surveying	2093562(093)	Mine Mechanisation (Lab)	-	2	-	1
8	Mining & Mine Surveying	2093563(093)	Vocational Training	-	4	-	2
Total				11	8	5	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) → SL : Self Learning.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Mining & Mine Surveying

Semester - V

Scheme of Examination:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Examination					
				Theory			Practical		Total Marks
				ESE	CT	TA	ESE	TA	
1	Mechanical Engineering	2093571(037)	Entrepreneurship Development	70	20	30	-	-	120
2	Mining & Mine Surveying	2093572(093)	Mine Disasters	70	20	30	-	-	120
3	Mining & Mine Surveying	2093573(093)	Metal Mining Technology	70	20	30	-	-	120
4	Mining & Mine Surveying	2093574(093)	Mine Mechanisation	70	20	30	-	-	120
5	Mining & Mine Surveying	2093575(093)	Blasting Technology	70	20	30	-	-	120
6	Mining & Mine Surveying	2093561(093)	Mine Disasters (Lab)	-	-	-	40	60	100
7	Mining & Mine Surveying	2093562(093)	Mine Mechanisation (Lab)	-	-	-	40	60	100
8	Mining & Mine Surveying	2093563(093)	Vocational Training	-	-	-	80	120	200
Total				350	100	150	160	240	1000

ESE : End of Semester Exam,

CT: Class Test,

TA: Teachers Assessment

Note: i) TA in Theory includes Sessional work (SW) and Attendance (ATT).

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



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Mining & Mine Surveying

Semester - VI

Scheme of Studies:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+T+P/2
1	Mining & Mine Surveying	2093671(093)	Mineral Economics	2	-	1	3
2	Mining & Mine Surveying	2093672(093)	Open Cast Mining	2	-	1	3
3	Mining & Mine Surveying	2093673(093)	Mine Management and Safety Aspects	2	-	1	3
4	Mining & Mine Surveying	2093674(093)	Modern Mine Surveying	3	-	1	4
5	Mining & Mine Surveying	2093675(093)	Mine Transportation Engineering	2	-	1	3
6	Mining & Mine Surveying	2093661(093)	Open Cast Mining (Lab)	-	2	-	1
7	Mining & Mine Surveying	2093662(093)	Modern Mine Surveying (Lab)	-	2	-	1
8	Mining & Mine Surveying	2093663(093)	Mine Transportation Engineering (Lab)	-	2	-	1
9	Mining & Mine Surveying	2093664(093)	Project/ Seminar	-	2	-	1
10	Mining & Mine Surveying	--	Self Learning	-	0	1	0
Total				11	08	06	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) → SL : Self Learning.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Mining & Mine Surveying

Semester - VI

Scheme of Examination:

Session-2020

S. No	Board of Study	Course Code	Course Titles	Scheme of Examination					
				Theory			Practical		Total Marks
				ESE	CT	TA	ESE	TA	
1	Mechanical Engineering	2093671(093)	Mineral Economics	70	20	30	-	-	120
2	Mining & Mine Surveying	2093672(093)	Open Cast Mining	70	20	30	-	-	120
3	Mining & Mine Surveying	2093673(093)	Mine Management and Safety Aspects	70	20	30	-	-	120
4	Mining & Mine Surveying	2093674(093)	Modern Mine Surveying	70	20	30	-	-	120
5	Mining & Mine Surveying	2093675(093)	Mine Transportation Engineering.	70	20	30	-	-	120
6	Mining & Mine Surveying	2093661(093)	Open Cast Mining (Lab)	-	-	-	40	60	100
7	Mining & Mine Surveying	2093662(093)	Modern Mine Surveying (Lab)	-	-	-	40	60	100
8	Mining & Mine Surveying	2093663(093)	Mine Transportation Engineering (Lab)	-	-	-	40	60	100
9	Mining & Mine Surveying	2093664(093)	Project/ Seminar	-	-	-	40	60	100
10	Mining & Mine Surveying	--	Self Learning	-	-	-	-	0	0
Total				350	100	150	160	240	1000

ESE : End of Semester Exam,

CT: Class Test,

TA: Teachers Assessment

Note: i) TA in Theory includes Sessional work (SW) and Attendance (ATT).

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