

Diploma in Mining Engineering

Semester-I

Scheme of Studies:

S.No	Board of	Course	Course			eme of Hours/V	Studies Veek)
	Study	Code	Titles	L	Р	Т	Credit (C) 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	Mechanical Engineering	2000173(037)	Applied Mechanics	2	-	1	3
4	Applied Science	2000178(011)	Applied Chemistry	2	-	1	3
5	Mechanical Engineering	2000177(037)	Engineering Drawing	2	1	1	3
6	Mechanical Engineering	2000180(037)	Workshop Practice (Theory)	1	-	-	1
7	Mechanical Engineering	2000190(037)	Applied Mechanics (Lab)	-	2	-	1
8	Applied Science	2000191(011)	Applied Chemistry (Lab)	-	2	-	1
9	Mechanical Engineering	2000192(037)	Engineering Drawing (Practical)	-	2	-	1
10	Mechanical Engineering	2000193(037)	Workshop Practice (Practical)	-	4	-	2
11	Humanities	2000194(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	2	-	1
12	-	-	Library	-	2	-	-
13	-	-	Co-curricular & Academic Activity Societies	-	2	-	-
							22

L - Lecture, T - Tuto

T - Tutorial,

P - Practical

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 Mining Engineering

Semester-I

Scheme of Examinations:

				Scheme of Examination					
S.No	Board of	Course	Course	Theory			Practi	Total	
	Study	Code	Titles	ESE	СТ	TA	ESE	TA	Marks
1	Humanities	2000171(046)	Communication Skills-I	70	20	30	-	-	120
2	Applied Science	2000172(014)	Applied Maths-I	70	20	30	-	-	120
3	Mechanical Engineering	2000173(037)	Applied Mechanics	70	20	30	-	-	120
4	Applied Science	2000178(011)	Applied Chemistry	70	20	30	-	-	120
5	Mechanical Engineering	2000177(037)	Engineering Drawing	70	20	30	1	1	120
6	Mechanical Engineering	2000180(037)	Workshop Practice (Theory)	-	1	30	-	-	30
7	Mechanical Engineering	2000190(037)	Applied Mechanics (Lab)	1	1	1	30	50	80
8	Applied Science	2000191(011)	Applied Chemistry (Lab)	-	-	-	30	50	80
9	Mechanical Engineering	2000192(037)	Engineering Drawing (Practical)	-	1	1	30	50	80
10	Mechanical Engineering	2000193(037)	Workshop Practice (Practical)	-	-	1	50	30	80
11	Humanities	2000194(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	-	-	-	50	50
	Total			350	100	180	140	230	1000

ESE: End Semester Examination, CT: Class Test, TA: Teachers Assessment

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

iii) 85% attendance is essential in each theory and practical subjects to appear in examination.

Legend: - PRA: Process Assessment, PDA: Product Assessment

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



Diploma in Mining Engineering

Semester-II

Scheme of Studies:

S.	Board of	Course	Course			ne of St urs/We	
No.	Study	Code	Titles	L	Р	Т	Credit (C) 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	Applied Science	2000274 (015)	Applied Physics	2	-	1	3
5	Mechanical Engineering	2000275 (037)	Basic Non-Conventional Energy Sources	1	-	1	2
6	Computer Science and Engineering	2000276 (022)	Computer Fundamentals & Applications	2	ı	-	2
7	Applied Science	2000290 (015)	Applied Physics (Lab)	ı	2	-	1
8	Mechanical Engineering	2000291 (037)	Basic Non-Conventional Energy Sources (Lab)	ı	2	-	1
9	Computer Science and Engineering	2000292 (022)	Computer Fundamentals & Applications (Lab)	-	4	-	2
10	Humanities	2000294 (046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	2	-	1
11	-	-	Library	-	2	-	-
12	-	-	Co-curricular & Academic Activity Societies	-	2	-	-
			11	14	05	21	

L - Lecture, T - Tutorial, P - Practical

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

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

locations using different instructional strategies).

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

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



Diploma in Mining Engineering

Semester-II

Scheme of Examination:

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S. No	Board of Study	Course Code	Course Titles	Т	heory	,	Pra	ctical	Total
	Study	Code	Titles	ESE	СТ	TA	ESE	TA	Marks
1	Humanities	2000271 (046)	Communication Skills-II	70	20	30	-	1	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	Applied Science	2000274 (015)	Applied Physics	70	20	30	-	-	120
15	Mechanical Engineering	2000275 (037)	Basic Non-Conventional Energy Sources	-	-	70	-	-	70
6	Computer Science and Engineering	2000276 (022)	Computer Fundamentals & Applications	70	20	30	-	-	120
7	Applied Science	2000290 (015)	Applied Physics (Lab)	ı	ı	ı	30	50	80
8	Mechanical Engineering	2000291 (037)	Basic Non-Conventional Energy Sources (Lab)	-	1	1	30	50	80
9	Computer Science and Engineering	2000292 (022)	Computer Fundamentals & Applications (Lab)	-	-	-	30	50	80
10	Humanities	2000294 (046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	-	-	ı	60	60
	Total			350	130	220	90	210	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% of total respectively.

Legend: - PRA: Process Assessment, PDA: Product Assessment.

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 each theory and practical subjects to appear in examination.



Diploma in Mining Engineering

Semester - III

Scheme of Studies:

S.No.	Board of	Course	Course Titles	Sche	me of St	udies	(Hours/Week)
3.140.	Study	Code	course rities	L	Р	Т	Credit L+T+(P/2)
1	Mining Engineering	2039371 (039)	Elements of Mining Technology	2	-	1	3
2	Mining Engineering	2039372 (039)	Mine Transportation	2	-	1	3
3	Mining Engineering	2039373 (039)	Applied Geology	2	-	1	3
4	Mining Engineering	2039374 (039)	Elements of Mine Surveying	2	-	1	3
5	Mining Engineering	2039375 (039)	Mine Ventilation	3	-	1	4
6	Mining Engineering	2039361 (039)	Elements of Mining Technology (Lab)	-	2	-	1
7	Mining Engineering	2039362 (039)	Applied Geology (Lab)	-	2	-	1
8	Mining Engineering	2039363 (039)	Elements of Mine Surveying (Lab)	-	2	-	1
9	Mining Engineering	2039364 (039)	Mine Ventilation (Lab)	-	2	-	1
10	-	-	Library	-	2	-	0
11	Humanities	-	Health and Yoga	-	7	-	0
		Tota	11	17	05	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)



Diploma in Mining Engineering

Semester - III

Scheme of Examination:

S.No.	Doord of	Course Course Titles			Scheme	of Stud	dies (Hou	urs/Weel	()
3.140.	Board of Study	Code	Course rities	7	Theory		Prac	ctical	Total
				ESE	СТ	TA	ESE	TA	Marks
1	Mining Engineering	2039371 (039)	Elements of Mining Technology	70	20	30	-	-	120
2	Mining Engineering	2039372 (039)	Mine Transportation	70	20	30	-	-	120
3	Mining Engineering	2039373 (039)	Applied Geology	70	20	30	-	-	120
4	Mining Engineering	2039374 (039)	Elements of Mine Surveying	70	20	30	-	-	120
5	Mining Engineering	2039375 (039)	Mine Ventilation	70	20	30	-	-	120
6	Mining Engineering	2039361 (039)	Elements of Mining Technology (Lab)	-	-	-	40	60	100
7	Mining Engineering	2039362 (039)	Applied Geology (Lab)	-	-	-	40	60	100
8	Mining Engineering	2039363 (039)	Elements of Mine Surveying (Lab)	-	-	-	40	60	100
9	Mining Engineering	2039364 (039)	Mine Ventilation (Lab)	-	-	-	40	60	100
10	Humanities	-	Health and Yoga	- 350	-	-	-	-	-
	Total				100	150	160	240	1000

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% weightage of total respectively.

- ii. TA in Practical includes performance of PRA, PDA and Viva-voce with weightage of 50% , 40% and 10% weightage of total respectively .
- iii. 85% attendance is essential in theory & Practical classes to appear in examination.



Diploma in Mining Engineering

Semester - IV

Scheme of Studies:

S.No.	Board of	Course	Course	Schen	ne of Stu	dies (Hours/Week)
	Study	Code	Titles	L	Р	Т	Credit L+T+(P/2)
1	Mechanical Engineering	2000475 (037)	Entrepreneurship Development and Management	2	-	1	3
2	Mining Engineering	2039471 (039)	Mine Surveying -I	3	-	1	4
3	Mining Engineering	2039472 (039)	Winning and Working Metal	2	-	1	3
4	Mining Engineering	2039473 (039)	Mine Environment & Pollution Control	2	-	1	3
5	Mining Engineering	2039474 (039)	Winning and Working (Coal)	2	-	1	3
6	Mining Engineering	2039461 (039)	Mine Surveying–I (Lab)	-	2	-	1
7	Mining Engineering	2039462 (039)	Winning and Working Coal (Lab)	-	2	-	1
8	Mining Engineering	2039463 (039)	Mine Environment & Pollution Control(Lab)	-	2	-	1
9	Mining Engineering	2039464 (039)	Minor Project	-	2	-	1
10	-	-	Library	-	2	-	0
11	-	-	Sports	-	5	-	0
		11	15	05	20		

L- Lecture,

T- Tutorial,

P- Practical,

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



Diploma in Mining Engineering

Semester - IV

Scheme of Examination:

S.No.	Board of	Course	Scheme of Studies (Hours/Week)							
5.NO.	Study	Course Code	Course Titles	7	Theory		Prac	ctical	Total	
				ESE	СТ	TA	ESE	TA	Marks	
1	Mechanical Engineering	2000475 (037)	Entrepreneurship Development and Management	70	20	30	-	1	120	
2	Mining Engineering	2039471 (039)	Mine Surveying -I	70	20	30	-	-	120	
3	Mining Engineering	2039472 (039)	Winning and Working Metal	70	20	30	-	ı	120	
4	Mining Engineering	2039473 (039)	Mine Environment & Pollution Control	70	20	30	-	ı	120	
5	Mining Engineering	2039474 (039)	Winning and Working (Coal)	70	20	30	-	-	120	
6	Mining Engineering	2039461 (039)	Mine Surveying –I (Lab)	-	-	-	40	60	100	
7	Mining Engineering	2039462 (039)	Winning and Working Coal (Lab)	-	-	-	40	60	100	
8	Mining Engineering	2039463 (039)	Mine Environment & Pollution Control (Lab)	-	-	-	40	60	100	
9	Mining Engineering	2039464 (039)	Minor Project	-	-	-	40	60	100	
10	-	-	Library	-	-	-	-	-	_	
11	-	-	Sports	-	-	-	-	-	-	
	l	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% weightage of total respectively.

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Diploma in Mining Engineering

Semester - V

Scheme of Studies:

S.No.	Board of	Course	Course Titles			me of S ours/W	Studies /eek)
	Study	Code		L	Р	Т	Credit L+T+(P/2)
1	Mining Engineering	2039571 (039)	Advance Mining Geology	2	-	1	3
2	Mining Engineering	2039572 (039)	Mine Legislation	2	1	1	3
3	Mining Engineering	2039573 (039)	Mine Machinery	3	-	1	4
4	Mining Engineering	2039574 (039)	Strata Control and Roof Support	2	-	1	3
5	Mining Engineering	2039575 (039)	Drilling and Blasting Practice in Mines	2	-	1	3
6	Mining Engineering	2039561 (039)	Advance Mining Geology (Lab)	-	2	-	1
7	Mining Engineering	2039562 (039)	Mine Machinery (Lab)	-	2	-	1
8	Mining Engineering	2039563 (039)	Drilling and Blasting Practice in Mines (Lab)	-	2	-	1
9	Mining Engineering	2039564 (039)	Industrial Training (Lab)	1	2	-	1
10	Mandatory Course		Environmental Science	2	-	-	-
		Tota	I	13	08	05	20

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P-Practical,

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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 Learning (SL)



Diploma in Mining Engineering

Semester - V

Scheme of Examination:

				9	Scheme	of Stud	lies (Hou	ırs/Week	:)
S. No.	Board of Study	Course Code	Course Titles	-	Theory		Prac	tical	Total
140.	Study	Code		ESE	СТ	TA	ESE	TA	Marks
1	Mining Engineering	2039571 (039)	Advance Mining Geology	70	20	30	-	-	120
2	Mining Engineering	2039572 (039)	Mine Legislation	70	20	30	-	-	120
3	Mining Engineering	2039573 (039)	Mine Machinery	70	20	30	-	-	120
4	Mining Engineering	2039574 (039)	Strata Control and Roof Support	70	20	30	-	-	120
5	Mining Engineering	2039575 (039)	Drilling and Blasting Practice in Mines	70	20	30	-	-	120
6	Mining Engineering	2039561 (039)	Advance Mining Geology (Lab)	-	-	-	40	60	100
7	Mining Engineering	2039562 (039)	Mine Machinery (Lab)	-	-	-	40	60	100
8	Mining Engineering	2039563 (039)	Drilling and Blasting Practice in Mines (Lab)	-	-	-	40	60	100
9	Mining Engineering	2039564 (039)	Industrial Training (Lab)	-	-	-	40	60	100
10	Mandatory Course		Environmental Science	-	-	-	-	-	-
		Total		350	100	150	160	240	1000

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% weightage of total respectively.

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

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Diploma in Mining Engineering

Semester - VI

Scheme of Studies:

S.No.	Board of	Course	Course Titles			me of S ours/W	
	Study	Code		L	P	T	Credit L+T+(P/2)
1	Mining Engineering	2039671 (039)	Mine Hazards	2	-	1	3
2	Mining Engineering	2039672 (039)	Surface Mining	2	-	1	3
3	Mining Engineering	2039673 (039)	Mine Surveying-II	3	-	1	4
4	Mining Engineering	2039674 (039)	Mine Management and Economics	2	-	1	3
5	Mining Engineering	2039675 (039)	Mine Safety and Legislation	2	-	1	3
6	Mining Engineering	2039661 (039)	Mine Hazards (Lab)	-	2	-	1
7	Mining Engineering	2039662 (039)	Mine Surveying-II (Lab)	-	2	-	1
8	Mining Engineering	2039663 (039)	Major project	-	2	-	1
9	Mining Engineering	2039664 (039)	Industrial Training – II (Lab)	-	2	-	1
10	Mandatory Course		Essence of Indian Knowledge and Tradition	2	-	-	0
		Total		13	08	05	20

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



Diploma in Mining Engineering

Semester - VI

Scheme of Examination:

	Board of	Course		Scheme of Studies (Hours/Week)					eek)
S.No.	Study	Code	Course Titles		Theor	у	Prac	Total	
	,			ESE	СТ	TA	ESE	TA	Marks
1	Mining Engineering	2039671 (039)	Mine Hazards	70	20	30	-	-	120
2	Mining Engineering	2039672 (039)	Surface Mining	70	20	30	-	-	120
3	Mining Engineering	2039673 (039)	Mine Surveying-II	70	20	30	-	-	120
4	Mining Engineering	2039674 (039)	Mine Management and Economics	70	20	30	-	-	120
5	Mining Engineering	2039675 (039)	Mine Safety and Legislation	70	20	30	-	-	120
6	Mining Engineering	2039661 (039)	Mine Hazards	-	-	-	40	60	100
7	Mining Engineering	2039662 (039)	Mine Surveying-II	-	-	-	40	60	100
8	Mining Engineering	2039663 (039)	Major project	-	-	-	40	60	100
9	Mining Engineering	2039664 (039)	Industrial Training -II	-	-	-	40	60	100
10	Mandatory Course		Essence of Indian Knowledge and Tradition	-	-	-	-	-	-
	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% weightage of total respectively.

- ii. TA in Practical includes performance of PRA, PDA and Viva-voce with weightage of 50%, 40% and 10% weightage of total respectively.
- iii. 85% attendance is essential in theory & Practical classes to appear in examination.