



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Metallurgical Engineering

Semester - III

Scheme of Studies:

S. No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+(P/2)+T
1	Metallurgical Engineering	2038351(038)	Material Science	3	-	-	3
2	Metallurgical Engineering	2038352(038)	Extractive Metallurgy	3	-	-	3
3	Metallurgical Engineering	2038353(038)	Fuel Furnace and Refractories	3	-	-	3
4	Metallurgical Engineering	2038354(038)	Mineral Processing	2	-	1	3
5	Metallurgical Engineering	2038355(038)	Metallurgical Thermodynamics and Kinetics	3	-	1	4
6	Metallurgical Engineering	2038361(038)	Material Science(Lab)	-	2	-	1
7	Metallurgical Engineering	2038362(038)	Fuel Furnace and Refractories (Lab)	-	2	-	1
8	Metallurgical Engineering	2038363(038)	Mineral Processing(Lab)	-	2	-	1
9	Metallurgical Engineering	2038364(038)	Mini project	-	2	-	1
10	Humanities	-	Personality Development	-	2	-	0
11	Humanities	-	Health, Hygiene & Yoga	-	2	-	0
Total				14	12	02	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)

Tutorial (T) --> SL : Self Learning.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Metallurgical Engineering

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	Metallurgical Engineering	2038351(038)	Material Science	70	20	30	-	-	120
2	Metallurgical Engineering	2038352(038)	Extractive Metallurgy	70	20	30	-	-	120
3	Metallurgical Engineering	2038353(038)	Fuel Furnace and Refractories	70	20	30	-	-	120
4	Metallurgical Engineering	2038354(038)	Mineral Processing	70	20	30	-	-	120
5	Metallurgical Engineering	2038355(038)	Metallurgical Thermodynamics and Kinetics	70	20	30	-	-	120
6	Metallurgical Engineering	2038361(038)	Material Science(Lab)	-	-	-	40	60	100
7	Metallurgical Engineering	2038362(038)	Fuel Furnace and Refractories (Lab)	-	-	-	40	60	100
8	Metallurgical Engineering	2038363(038)	Mineral Processing(Lab)	-	-	-	40	60	100
9	Metallurgical Engineering	2038364(038)	Mini project	-	-	-	50	50	100
10	Humanities	-	Personality Development	-	-	-	-	-	-
11	Humanities	-	Health, Hygiene & Yoga	-	-	-	-	-	-
Total				350	100	150	170	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.

iv) ESE in Mini project includes Project report, Attendance, Performance and Presentation.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Metallurgical Engineering

Semester – IV

Scheme of Studies:

S. No	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+(P/2)+T
1	Metallurgical Engineering	2000451(038)	Physical Metallurgy	3	-	1	4
2	Metallurgical Engineering	2000452(038)	Iron Production	3	-	-	3
3	Metallurgical Engineering	2000453(038)	Corrosion Engineering	3	-	-	3
4	Metallurgical Engineering	2000454(038)	Non Ferrous Extractive Metallurgy	3	-	-	3
5	Metallurgical Engineering	2000455(038)	Fundamentals of Mechanical Metallurgy	2	-	1	3
6	Metallurgical Engineering	2000461(038)	Physical Metallurgy (Lab)	-	2	-	1
7	Metallurgical Engineering	2000462(038)	Corrosion Engineering (Lab)	-	2	-	1
8	Metallurgical Engineering	2000463(038)	Fundamental of Mechanical Metallurgy (Lab)	-	2	-	1
9	Metallurgical Engineering	2000464(038)	Industrial Training, Phase-I	-	2	-	1
10	Humanities	-	Value Education	-	2	-	0
11	Humanities	-	Library	-	2	-	0
Total				14	12	02	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)

Tutorial (T) --> SL : Self Learning.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Metallurgical Engineering

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	Metallurgical Engineering	2000451(038)	Physical Metallurgy	70	20	30	-	-	120
2	Metallurgical Engineering	2000452(038)	Iron Production	70	20	30	-	-	120
3	Metallurgical Engineering	2000453(038)	Corrosion Engineering	70	20	30	-	-	120
4	Metallurgical Engineering	2000454(038)	Non Ferrous Extractive Metallurgy	70	20	30	-	-	120
5	Metallurgical Engineering	2000455(038)	Fundamentals of Mechanical Metallurgy	70	20	30	-	-	120
6	Metallurgical Engineering	2000461(038)	Physical Metallurgy (Lab)	-	-	-	40	60	100
7	Metallurgical Engineering	2000462(038)	Corrosion Engineering (Lab)	-	-	-	40	60	100
8	Metallurgical Engineering	2000463(038)	Fundamental of Mechanical Metallurgy (Lab)	-	-	-	40	60	100
9	Metallurgical Engineering	2000464(038)	Industrial Training, Phase-I	-	-	-	80	20	100
10	Humanities	-	Value Education	-	-	-	-	-	-
11	Humanities	-	Library	-	-	-	-	-	-
Total				350	100	150	200	200	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.