

# CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

## Course of study and Scheme Examination of Diploma First Semester (2005-06) in Civil/Mechanical/ Electrical/Metallurgical Engineering/Instrumentation/Production Technology/Mining Engg.

### SEMESTER – I

S. No	Subject Code	Board of Study	Subject	Periods Per Week			Scheme of Examination					Total Marks	Credit L+[T+P]/2
							Theory			Practical			
				L	T	P	ESE	CT	TA	ESE	TA		
1	200111	Humanities	Communication Skill-I	3	1	-	100	20	20	-	-	140	4
2	200112	Basic Science	Applied Maths-I	3	2	-	100	20	20	-	-	140	4
3	200113	Basic Science	Applied Physics	3	1	-	100	20	20	-	-	140	4
4	200114	Basic Science	Applied Chemistry	3	1	-	100	20	20	-	-	140	4
5	200115	Civil Engg.	Environmental Engg.	3	1	-	100	20	20	-	-	140	4
6	200121	Mechanical Engg.	Work Shop Practice (Theory)	1	-	-	-	-	20	-	-	20	1
7	200122	Basic Science	Applied Physics Lab	-	-	3	-	-	-	50	20	70	2
8	200123	Basic Science	Applied Chemistry Lab	-	-	3	-	-	-	50	20	70	2
9	200124	Mechanical Engg.	Work Shop Practice (Practical)	-	-	8	-	-	-	100	40	140	4
<b>Total</b>				<b>16</b>	<b>06</b>	<b>14</b>	<b>500</b>	<b>100</b>	<b>120</b>	<b>200</b>	<b>80</b>	<b>1000</b>	<b>29</b>

L – Lecturer,

T – Tutorial,

P – Practical,

ESE – End Semester Exam,

CT – Class Test, TA – Teachers Assessment

# CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

## DIPLOMA PROGRAMME IN MINING ENGG.

### SEMESTER - II

#### COURSE OF STUDY AND SCHEME OF EXAMINATION

S. No	Board of Study	Subject Code	Subject	Periods/week			Scheme of Examination					Credit L+(T+P)/2	
				L	T	P	Theory			Practical			Total Marks
							ESE	CT	TA	ESE	TA		
1.	Humanities	200211 (46)	Communication Skill II	4	1	-	100	20	20	-	-	140	5
2.	Computer Science and Engg.	200214 (22)	Computer fundamentals & its applications	4	1	-	100	20	20	-	-	140	5
3.	Mechanical Engg.	200215 (37)	Engineering Drawing	2	4		100	20	20	-	-	140	4
4.	Mining Engg.	239211 (39)	Elements of mining technology	4	1	-	100	20	20	-	-	140	5
5.	Mining Engg.	239212(39)	Elements of mine surveying	4	1	-	100	20	20	-	-	140	4
6.	Computer Science and Engg.	200221 (22)	Computer fundamentals & its applications			2	-	-	-	50	20	70	1
7.	Humanities	200224 (46)	PPA	-	-	2	-	-	-	-	40	40	1
8.	Mining Engg.	239221(39)	Elements of mine surveying	-	-	2	-	-	-	50	20	70	1
9	Mining Engg.	239222(39)	*Industrial Training	-	-	5	-	-	-	100	20	120	3
<b>Total</b>				18	8	11	500	100	100	200	100	1000	29

PPA - PROFICIENCY IN PROFESSIONAL ACTIVITY

L- LECTURE, T. TUTORIAL, P-PRACTICAL.

ESE- END OF SEMESTER EXAMINATION, CT-CLASS TEST, T – TEACHER'S ASSESSMENT.

\* Industrial training: Students will under go on industrial practical training for 2 months during 2<sup>nd</sup> sem.

# CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

## DIPLOMA PROGRAMME IN MINING ENGG.

### SEMESTER - III

#### COURSE OF STUDY AND SCHEME OF EXAMINATION

S. No	Board of Study	Subject Code	Subject	Period/week in Hours			Scheme of Examination					Credit  L+(T+P)/2	
				L	T	P	Theory			Practical			Total Marks
							ESE	CT	TA	ESE	TA		
1.	Mech.	239311 (37)	Applied Mechanics	4	2	-	100	20	20	-	-	140	5
2.	Civil	239312 (20)	Basic Civil Engineering	4	2	-	100	20	20	-	-	140	5
3.	Mech.	239313 (37)	Basic Mechanical Engineering	4	2	-	100	20	20	-	-	140	5
4.	Mining Engg.	239314 (39)	Mine Environmental Engineering	4	1	-	100	20	20	-	-	140	5
5.	Mining Engg.	239315 (39)	Strata Control and Roof Support	4	1	-	100	20	20	-	-	140	5
6.	Mech.	239321 (37)	Applied Mechanics (Lab)			3	-	-	-	50	20	70	2
7.	Civil	239322 (20)	Basic Civil Engineering (Lab)	-	-	2	-	-	-	50	20	70	1
8.	Mech.	239323 (37)	Basic Mechanical Engineering (Lab)	-	-	2				50	20	70	1
9.	Mining Engg.	239324 (39)	Industrial Training*	-	-	1	-	-	-	50	40	90	1
<b>Total</b>				20	8	8	500	100	100	200	100	1000	30

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ESE: End Sem Exam, CT: Class Test, TA: Teacher's Assessment

\* Industrial Training: Students will undergo on industrial practical training for 2 & 1/2 months during 3<sup>rd</sup> semester.

# CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

## DIPLOMA PROGRAMME IN MINING ENGG.

### SEMESTER - IV

#### COURSE OF STUDY AND SCHEME OF EXAMINATION

S. No	Board of Study	Subject Code	Subject	Period/week in Hours			Scheme of Examination					Credit L+(T+P)/2	
				L	T	P	Theory			Practical			Total Marks
							ESE	CT	TA	ESE	TA		
1.	Electrical	239411 (24)	Basic Electrical Engineering	4	1	-	100	20	20	-	-	140	5
2.	Mining Engg.	239412 (39)	Applied Geology	4	2	-	100	20	20	-	-	140	5
3.	Mining Engg.	239413 (39)	Mine Safety and Legislation	4	1	-	100	20	20	-	-	140	5
4.	Mining Engg.	239414 (39)	Mine Surveying	4	2	-	100	20	20	-	-	140	5
5.	Mining Engg.	239415 (39)	Wining and working coal	4	2	-	100	20	20	-	-	140	5
6.	Electrical	239421 (24)	Basic Electrical Engineering (Lab)	-	-	2	-	-	-	50	20	70	1
7.	Mining Engg.	239422 (39)	Applied Geology (Lab)	-	-	2	-	-	-	50	20	70	1
8.	Mining Engg.	239423 (39)	Mine Surveying (Lab)	-	-	3	-	-	-	50	20	70	2
9.	Mining Engg.	239424 (39)	Industrial training*	-	-	1	-	-	-	50	40	90	1
<b>Total</b>				20	8	8	500	100	100	200	100	1000	30

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\* Industrial Training: Students will undergo on industrial practical training for 2 & 1/2 months during 4<sup>th</sup> semester

# CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

## DIPLOMA PROGRAMME IN MINING ENGG.

### SEMESTER - V

#### COURSE OF STUDY AND SCHEME OF EXAMINATION

S. No	Board of Study	Subject Code	Subject	Period/week in Hours			Scheme of Examination					Credit L+(T+P)/2	
				L	T	P	Theory			Practical			Total Marks
							ESE	CT	TA	ESE	TA		
1.	Mining Engg.	239511 (39)	Advance Mining Geology	5	1	-	100	20	20	-	-	140	6
2.	Mining	239512 (39)	Mine Fires, Explosion, Inundation, Rescue and Recovery	4	1	-	100	20	20	-	-	140	5
3.	Mining Engg.	239513 (39)	Wining and Working Metals	4	1	-	100	20	20	-	-	140	5
4.	Mining Engg.	239514 (39)	Mine Machinery and Maintenance	4	2	-	100	20	20	-	-	140	5
5.	Mining Engg.	239515 (39)	Drilling and Blasting practices in mines	4	2	-	100	20	20	-	-	140	5
6.	Mining Engg.	239521 (39)	Advance Mining Geology (Lab)	-	-	2	-	-	-	50	20	70	1
7.	Mining Engg.	239522 (39)	Mine Fires, Explosion, Inundation, Rescue and Recovery (Lab)	-	-	2	-	-	-	50	20	70	1
8.	Mining Engg.	239523 (39)	Mine Machinery and Maintenance (Lab)	-	-	2	-	-	-	50	20	70	1
9.	Mining Engg.	239524 (39)	Industrial Training	-	-	1	-	-	-	50	40	90	1
<b>Total</b>				21	7	7	500	100	100	200	100	1000	30

L: Lecture Hours, T: Tutorial Hours, P: Practical Hours,  
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\* Industrial Training: Students will undergo on industrial practical training for 2 & 1/2 months during 5<sup>th</sup> semester

# CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI

## DIPLOMA PROGRAMME IN MINING ENGG.

### SEMESTER - VI

#### COURSE OF STUDY AND SCHEME OF EXAMINATION

S. No	Board of Study	Subject Code	Subject	Period/week in Hours			Scheme of Examination					Credit  L+(T+P)/2	
				L	T	P	Theory			Practical			Total Marks
							ESE	CT	TA	ESE	TA		
1.	Mining Engg.	239611 (39)	Mine economics and beneficiation	4	1	-	100	20	20	-	-	140	5
2.	Mining Engg.	239612 (39)	Open -cast mining and land reclamation	4	2	-	100	20	20	-	-	140	5
3.	Mining Engg.	239613 (39)	Mine management legislation and general safety	4	2	-	100	20	20	-	-	140	5
4.	Mining Engg.	239614 (39)	Advance mine surveying	5	2	-	100	20	20	-	-	140	6
5.	Mechanical engg.	200615 (37)	Entrepreneurship Development	4	1	-	100	20	10	-	-	130	5
6.	Mining Engg.	239621 (39)	Open cast mining and land reclamation (Lab)	-	-	2	-	-	-	50	20	70	1
7.	Mining Engg.	239622 (39)	Advance mine surveying (Lab)	-	-	3	-	-	-	100	50	150	2
8.	Mining Engg.	239623 (39)	Industrial training	-	-	1	-	-	-	50	40	90	1
<b>Total</b>				21	8	6	500	100	90	200	110	1000	30

L: Lecture Hours, T: Tutorial Hours, P: Practical Hours,  
ESE: End Sem Exam, CT: Class Test, TA: Teacher's Assessment

\* Industrial Training: Students will undergo on industrial practical training for 2 & 1/2 months during 6<sup>th</sup> semester.