## SECOND YEAR ENGINEERING: MINING ENGINEERING SCHEME OF INSTRUCTION AND EXAMINATION (RC 2016 - 17)

## <u>SEMESTER – III</u>

Subject Name of the		Scheme of Instruction Hrs/Week			Scheme of Examination						
Code	Subject	L	т	P#	ThDuration			Ma	ırks		
		L		(Hrs)	Th	S	TW	Р	0	TOTAL	
MN3.1	Engineering Mathematics - III	3	1		3	100	25				125
MN3.2	Electrical Drives and Digital Electronics	3	1	2	3	100	25		25		150
MN3.3	Mechanics of Solids	3		2	3	100	25			25	150
MN3.4	Elements of Mining Engineering	3	1		3	100	25				125
MN3.5	Machine Drawing and CAD	1	1	3	4	100	25	25			150
MN3.6	Mining Geology - I	3	1	2	3	100	25		25		150
TOTAL		16	5	9		600	150	25	50	25	850

#A candidate is considered to have successfully fulfilled the requirement of a semester, provided he/she submits to the department a certified journal reporting the experiments conducted during the semester.

## SECOND YEAR ENGINEERING: MINING ENGINEERING SCHEME OF INSTRUCTION AND EXAMINATION (RC 2016 - 17)

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	<b>SEMESTER – I</b>	V
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Subject Name of the		Scheme of Instruction Hrs/Week			Scheme of Examination						
Code	Subject	L	Т	P#	ThDuration				arks	1	
		1		• "	(Hrs)	Th	S	TW	Р	0	TOTAL
MN.4.1	Mine Development	3	1		3	100	25				125
MN 4.2	Fluid Mechanics andMachinery	3		2	3	100	25		25		150
MN 4.3	Mining Geology - II	3	2		3	100	25	25			150
MN 4.4	Surveying-I	3	1	2	3	100	25		25		150
MN 4.5	Rock Mechanics and Ground Control -I	3	1	2	3	100	25			25	150
MN 4.6	Numerical Techniques andStatistics	3	1		3	100	25				125
TOTAL		18	6	6		600	150	25	50	25	850

#A candidate is considered to have successfully fulfilled the requirement of a semester, provided he/she submits to the department a certified journal reporting the experiments conducted during the semester.

**Note**: Industrial Training of four weeks to be undergone after Semester IV examinations which will be evaluated in Semester V.

## THIRD YEAR ENGINEERING: MINING ENGINEERING SCHEME OF INSTRUCTION AND EXAMINATION (RC 2016 - 17)

#### **SEMESTER -V**

Subject	Name of the	Scheme of Instruction Hrs/Week			Scheme of Examination						
Code	Subject	L	TI	P#	ThDuration		1	1	arks		1
				• "	(Hrs)	Th	S	TW	P	0	TOTAL
MN 5.1	Surveying-II	3		2	3	100	25		25		150
MN 5.2	Rock Mechanics and Ground Control-II	3		2	3	100	25			25	150
MN 5.3	Mining Machinery-I	3		2	3	100	25		25		150
MN 5.4	Mine Management and Legislation	3	1		3	100	25				125
MN 5.5	Surface Mining	3	2		3	100	25				125
MN 5.6	Underground Coal Mining	3	1		3	100	25				125
MN 5.7	Industrial Training \$			2				25			25
TOTAL		18	4	8		600	150	25	50	25	850

#A candidate is considered to have successfully fulfilled the requirement of a semester, provided he/she submits to the department a certified journal reporting the experiments conducted during the semester.

\$ Industrial Training is to be carried out after Semester IV and the report is to be prepared and presented in Semester V.**It is a Separate Head of Passing.** 

## THIRD YEAR ENGINEERING: MINING ENGINEERING SCHEME OF INSTRUCTION AND EXAMINATION (RC 2016 - 17)

## **SEMESTER -VI**

Subject Name of the		Scheme of Instruction Hrs/Week			Scheme of Examination						
Code	Subject	L	Т	P#	ThDuration			Ma	arks		
		Ľ	І Г#	Г#	(Hrs)	Th	S	TW	Ρ	0	TOTAL
MN 6.1	Mining Machinery- II	3	1	2	3	100	25				125
MN 6.2	Mine Environment- I	3	1	2	3	100	25		25		150
MN 6.3	Mineral Processing	3		2	3	100	25		25		150
MN 6.4	Underground Metal Mining	3	2		3	100	25	25			150
MN 6.5	Mine Economics and Valuation	3	1		3	100	25				125
MN 6.6	Mine Surveying	3	1		3	100	25			25	150
	TOTAL	18	6	6		600	150	25	50	25	850

#A candidate is considered to have successfully fulfilled the requirement of a semester, provided he/she submits to the department a certified journal reporting the experiments conducted during the semester.

## FINAL YEAR ENGINEERING: MINING ENGINEERING SCHEME OF INSTRUCTION AND EXAMINATION (RC 2016 - 17)

#### **SEMESTER -VII**

Subject Name of the		Scheme of Instruction Hrs/Week			Scheme of Examination						
Code	Subject	L	Т	P#	ThDuration		-	Ma	arks		-
		L	I P#	Γ#	(Hrs)	Th	S	TW	Р	0	TOTAL
MN 7.1	Mine Environment - II	3	1	2	3	100	25		25		150
MN 7.2	Mine Disaster Management	4			3	100	25				125
MN 7.3	Mine Safety and Legislation	4			3	100	25				125
MN 7.4	Elective-I	4			3	100	25			25	150
MN 7.5	Elective-II	4		2	3	100	25			25	150
MN 7.6	Project			4						25	25
TOTAL		19	1	8		500	125		25	75	725

#A candidate is considered to have successfully fulfilled the requirement of a semester, provided he/she submits to the department a certified journal reporting the experiments conducted during the semester.

# **List of Electives**

	Elective-I	Elective-II				
MN 7.4.1	Rock Fragmentation Engineering	MN 7.5.1	Bulk Material Handling			
MN 7.4.2	Underground Space Technology	MN 7.5.2	Optimisation Technique in Mineral Industry			
MN 7.4.3	Petroleum Engineering	MN 7.5.3	Computer Applications in Mining			
MN 7.4.4	Coal Bed Methane	MN 7.5.4	Advanced Surface Mining			

## FINAL YEAR ENGINEERING: MINING ENGINEERING SCHEME OF INSTRUCTION AND EXAMINATION (RC 2016 - 17)

#### **SEMESTER -VIII**

Subject Name of the		Scheme of Instruction Hrs/Week				Scheme of Examination						
Code	Subject	т	Т	P#	ThDuration			M	arks			
		L	I	I P#	(Hrs)	Th	S	TW	Р	0	TOTAL	
MN 8.1	Mine Planning and Design	4	1		3	100	25				175	
MN 8.2	Mine Environmental Management	4		2	3	100	25		25		175	
MN 8.3	Elective-III	3	1		3	100	25			25	175	
MN 8.4	Elective-IV	3		2	3	100	25			25	175	
MN 8.5	Project *			8				75		75	150	
TOTAL		14	2	12		400	100	75	25	125	725	

#### \* Term Work in Project is a Separate Head of Passing.

#A candidate is considered to have successfully fulfilled the requirement of a semester, provided he/she submits to the department a certified journal reporting the experiments conducted during the semester.

## **List of Electives**

	Elective-III	Elective-IV				
MN 8.3.1	Rock Slope Engineering	MN.8.4.1	Entrepreneurship			
MIN 0.5.1	Rock Slope Eligineering	MIN.0.4.1	Development			
MN 8.3.2	Geostatistics	MN.8.4.2	Exploration Geology			
MNO22	Small Scale Mining and	MN.8.4.3	Computer Programming			
MN 8.3.3	Ocean Mining	MIN.0.4.3	(Oops) in C++			
MN 8.3.4	Geodetic Surveying	MN 8.4.4	Rock Excavation			
MIN 0.3.4	Geodetic Sui veyilig	MIN 0.4.4	Engineering			