

5399 - MINE MANAGEMENT & ECONOMICS									
Teaching Schedule Per Week			Progressive Assessment	Examination Schedule (Marks)					
Lectures	Practical	Credits		Theory		Practical Ex.		Total	
4	-	4	- 50	3 Hrs	100	50		200	
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
3005		MIN		75	25	100	-	50	150

Rationale: Diploma holders are placed on supervisory capacity in mines after completion of diploma. As a supervisor and further manager of mining enterprise these courses are essential for him to be well versed with his role in the industry. Objective: On completion of this course the student will be able to apply the management techniques in the mines and also to look after economic aspects.

COURSE CONTENTS

	Hrs	Mks
1. INTRODUCTION	10	15
Introduction to Mine Management. Workers participation in Mine Management. Role of Mine Management in improving social status of mine workers. Mine organisation, organisation chart. Statutory requirement and qualification of various personnel in mines. Duties of various mines personnel.		
2. MINES TRAINING AND SUPERVISION	10	15
Training- objective, various categories. Types of training. Training centres. Arrangements at training centres. Standard stipend. Mine foreman -functions, qualities and responsibilities. Selection & training.		
3. WORK STUDY	10	15
Definition, objective, principle, procedure. Method study-definition, objective, procedure. Work measurement-definition, objective, procedure. Application of work study, method study and work measurement in mining.		
4. MINE ECONOMICS AND VALUATION	14	25
Unique feature of mineral industry. Role in national economy. General consideration affecting the value of mineral deposits. Mine valuation-different methods and applications. Amortisation and redemption of capital, life of mine, present values. Reports of valuation risk in valuation. National mineral policy. Conservation of minerals including coal.		
5. RESERVE COMPUTATION AND LOSSES	10	15
Classification of reserve, estimation of reserve. Introduction to geo-statistical method. Calculation of 'Average' width, assay grade. Classification and incorporation of losses. Coefficient of components of mineral extraction, dilution and recovery.		
6. ECONOMIC FEASIBILITY STUDIES	10	15
Need for economic analysis, time value of money, source of finance and cost of capital, data estimates, method of investment appraisal, risk analysis, societal versus private interest, economic evaluation, making of feasibility reports.		
Total	64	100

REFERENCES BOOKS:

1. Mine Management by Ghatak
2. Mine Economics by R. T. Deshmukh

