DIPLOMA COURSE IN MINING ENGINEERING SECOND SEMISTER

Exam Scheme: Practical: 50 Mks Term Work: 50 Marks S-4603 MINE SKETCHING

Teaching Scheme: Practical 4 Hrs.

RATIONALE:

This subject is designed to improve the drawing & imaginary skill of the students which help them in drawing the figures & rough sketches on the mine sites, where they comes across machines and their components.

OBJECTIVES:

Students are required to draw minimum ten sketches of real object or field visit, data or model. Dimensions should be marked by actual measurement or given data, wherever applicable.

LIST OF SKETCHES:

- 1. Mine Tubs
- 2. Rope Cappel
- 3. Safety Hook
- 4. Winding Drum
- 5. Tub Couplings
- 6. Headgear and winding arrangement (Model)
- 7. Safety Devices on Haulage
- 8. Haulage Clips
- 9. Roof Bolts
- 10. Various types of ropes
- 11. Fire extinguishers
- 12. Sketch of different models of pit top layout
- 13. Arial Rope way
- 14. Sketch of drill hole patterns
- 15. Open pit layout
- 16. Under carriage of Heavy Earth Moving Machinery
- 17. Back Hoe and Front end Excavator: Bucket & attachment
- 18. Types of Dumpers: Based on mine visit
- 19. Opencast benches
- 20. Layout of waste dumps

Reference Books:

- 1. Elements of Mining Technology, Vol-II by D. J. Deshmukh
- 2. Mining Engineers Hand Book Vol I & II by Pele
- 3. Mine Pumps, Haulage and Winders by S. Ghatak
- 4. UMS Series Vol I, II & III