



Discipline : Mining Engg.	Semester: 3rd	Name of the Teaching Faculty: D.S. PRADHAN
Subject: Mine Survey I	No. of Days/per week class allotted: 4	Semester From Date: 14/ 07/2025 To Date: 15/11/2025 No. of Weeks: 15
Week	Class Day	Theory/Practical Topics
1 st	01	Give survey conventional signs, abbreviation used.
	02	Give standards of lining, inking and coloring.
	03	Describe selection of scales used.
	04	Explain principle of chain surveying.
2 nd	01	Describe instruments used and checking their correctness.
	02	Explain ranging and chaining of a line.
	03	Calculate errors in chaining.
	04	Explain obstruction while chaining. Describe chaining along a sloping ground.
3 rd	01	Describe use of optical square and line range and checking optical square for correctness.
	02	Describe offsets and their measurements. Give reference sketches of stations. Give procedure of chain surveying. Explain field booking and plotting of chain survey.
	03	Describe prismatic compass, its adjustments and use.
	04	Explain true meridians, magnetic meridian, grid line meridian and arbitrary meridian.
4 th	01	Explain W.C.B. and Q.B. and conversion from one to other
	02	Find out fore and back bearing and their conversion. Compute angles from bearing and bearing angles
	03	Define local alteration. Determine local alteration and necessary correction to the bearing.
	04	Give procedure of field booking in compass and chain traverses. Explain adjustment of closing error in compass traversing.
5 th	01	Describe surveyor compass(miner's dial),its adjustment and use Compare prismatic compass with surveyor compass.
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	03	Fundamentals of Plane Table Survey.
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6 th	01	Explain two point problems
	02	Explain two point problems
	03	Explain three point problems and its solution by tracing paper method.
	04	Explain three point problems and its solution by tracing paper method.
7 th	01	Explain three point problems and its solution by tracing paper method.
	02	Describe advantages and disadvantages of plane table.
	03	Explain different methods of determining areas