


**LESSON PLAN**  
**SESSION-SUMMER-2023**

<b>SWAMI VIVEKANANDA SCHOOL OF ENGG. &amp; TECH. BBSR</b>			
			<b>REMARK</b>
<b>DISCIPLINE- MINING ENGG.</b>	<b>SEMESTER- 4TH</b>	<b>NAME OF THE FACULTY-ER. PRAVAT KUMAR SINGH</b>	
<b>SUBJECT- MS-II</b>	<b>NO.OF CLASS ALOTTED/ WEEK-4</b>	<b>SEMESTER FROM-20.02.2023</b>	
<b>WEEK</b>	<b>DATE</b>	<b>TOPICS</b>	
<b>1ST</b>	20.02.2023	Introduction class on mine survey.	
	21.02.2023	Define Tacheometry,stadia & its principle.	
	22.02.2023	Explain diaphragm, reticules, tacheometer, instruments constants.	
	23.02.2023	Find out height & distance from stadia intercepts, tangential systems, movable hair method.	
<b>2ND</b>	24.02.2023	Triangulation and Trilateration.	
	25.02.2023	State purpose & principle involved in triangulation & trilateration method.	
	27.02.2023	Classify various methods of triangulation survey primary, secondary & tertiary colliery triangulation.	
	28.02.2023	Develop concept about reconnaissance survey.	
<b>3RD</b>	01.03.2023	Describe methods of measuring angle, types of theodolite used in triangulation survey.	
	02.03.2023	Describe the methods of base line measurement using E.D.M.	
	04.03.2023	Define tape correction.	
	06.03.2023	State construction of triangulation station of permanent nature.	
<b>4TH</b>	07.03.2023	MCQ discussion.	
	10.03.2023	Correlation of surface and underground survey	
	13.03.2023	State direct correlation by traversing & optical methods.	
	14.03.2023	Describe orientation by wires in two shafts.	
<b>5TH</b>	18.03.2023	State co-planning/ alignment, weissbach triangle weis-quadrilateral methods, precise magnetic correlation.	
	20.03.2023	State elements of curves.	
	24.03.2023	Define designation of curves, simple, compound & reverse curves.	
	27.03.2023	Explain setting out of surface & underground curves by chord.	
<b>6TH</b>	28.03.2023	Explain setting out of offsets, chords and angle, tangent and offset, plate layers method	
	29.03.2023	Doubt class.	
	30.03.2023	Describe various setting out by chain & one theodolite, two theodolites.	
	03.04.2023	Define super elevation, transition and vertical curves.	
<b>7TH</b>	05.04.2023	Explain tape triangulation, instrumental survey.	
	06.04.2023	Determine stope face.	
	08.04.2023	State preparation of stope planes, plotting the stope station, plotting of stope face to the mine plan.	
	10.04.2023	Find out area of extraction by Planimeter and calculation of triangle thereof.	

8TH	11.04.2023	G.P.S. & Total Station.	
	12.04.2023	Explain the basic principles of global positioning system & total station.	
	13.04.2023	Introduction to DGPS.	
	14.04.2023	Doubt class.	
9TH	15.04.2023	Define Tacheometry, stadia & its principle.	
	17.04.2023	Explain diaphragm, reticules, tacheometer, instruments constants.	
	19.04.2023	Find out height & distance from stadia intercepts, tangential systems, movable hair method.	
10TH	20.04.2023	Triangulation and Trilateration.	
	24.04.2023	State purpose & principle involved in triangulation & trilateration method.	
	25.04.2023	Classify various methods of triangulation survey primary, secondary & tertiary colliery triangulation.	
	27.04.2023	Develop concept about reconnaissance survey.	
11TH	29.04.2023	Describe methods of measuring angle, types of theodolite used in triangulation survey.	
	01.05.2023	Describe the methods of base line measurement using E.D.M.	
	04.05.2023	Define tape correction.	
	05.05.2023	State co-planning/ alignment, weissbach triangle weis-quadrilateral methods, precise magnetic correlation.	
12TH	06.05.2023	State elements of curves.	
	08.05.2023	Define designation of curves, simple, compound & reverse curves.	
	09.05.2023	Explain setting out of surface & underground curves by chord.	
	10.05.2023	Previous year question & answer solve.	
	13.05.2023	Previous year question & answer solve.	

Principal

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