


LESSON PLAN

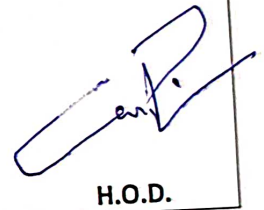
SESSION-SUMMER-2024

 SWAMI VIVEKANANDA SCHOOL OF ENGG. & TECH. BBSR			
DISCIPLINE- MINING ENGG.	SEMESTER- 4TH	NAME OF THE FACULTY-ER. Abhijit das	REMARK
SUBJECT- MS-II	NO.OF CLASS ALOTTED/ WEEK-4	SEMESTER FROM-16.01.2024-26.04.2024	
WEEK	DATE	TOPICS	
1ST	16.01.2024	Introduction class on mine survey.	
	17.01.2024	Define Tacheometry,stadia & its principle.	
	18.01.2024	Explain diaphragm, reticules, tacheometer, instruments constants.	
	19.01.2024	Find out height & distance from stadia intercepts, tangential systems, movable hair method.	
2ND	22.01.2024	Triangulation and Trilateration.	
	23.01.2024	State purpose & principle involved in triangulation & trilateration method.	
	24.01.2024	Classify various methods of triangulation survey primary, secondary & tertiary colliery triangulation.	
	25.01.2024	Develop concept about reconnaissance survey.	
3RD	29.01.2024	Describe methods of measuring angle, types of theodolite used in triangulation survey.	
	30.01.2024	Describe the methods of base line measurement using E.D.M.	
	31.01.2024	Define tape correction.	
	01.02.2024	State construction of triangulation station of permanent nature.	
4TH	02.02.2024	MCQ discussion.	
	05.02.2024	Correlation of surface and underground survey	
	06.02.2024	State direct correlation by traversing & optical methods.	
	07.02.2024	Describe orientation by wires in two shafts.	
5TH	08.02.2024	State co-planning/ alignment, weissbach triangle weis-quadrilateral methods, precise magnetic correlation.	
	09.02.2024	State elements of curves.	
	12.02.2024	Define designation of curves, simple, compound & reverse curves.	
	13.02.2024	Explain setting out of surface & underground curves by chord.	
6TH	15.02.2024	Explain setting out of offsets, chords and angle, tangent and offset, plate layers method	
	16.02.2024	Doubt class.	
	19.02.2024	Describe various setting out by chain & one theodolite, two theodolites.	
	20.02.2024	Define super elevation, transition and vertical curves.	
7TH	21.02.2024	Explain tape triangulation, instrumental survey.	
	22.02.2024	Determine slope face.	
	23.02.2024	State preparation of stope planes, plotting the stope station, plotting of stope face to the mine plan.	
	26.02.2024	Find out area of extraction by Planimeter and calculation of triangle thereof.	

8TH	27.02.2024	G.P.S. & Total Station.	
	28.02.2024	Explain the basic principles of global positioning system & total station.	
	29.02.2024	Introduction to DGPS.	
	01.03.2024	Doubt class.	
9TH	04.03.2024	Define Tacheometry,stadia & its principle.	
	05.03.2024	Explain diaphragm, reticules, tacheometer, instruments constants.	
	06.03.2024	Find out height & distance from stadia intercepts, tangential systems, movable hair method.	
10TH	07.03.2024	Triangulation and Trilateration.	
	11.03.2024	State purpose & principle involved in triangulation & trilateration method.	
	12.03.2024	Classify various methods of triangulation survey primary, secondary & tertiary colliery triangulation.	
	13.03.2024	Develop concept about reconnaissance survey.	
11TH	14.03.2024	Describe methods of measuring angle, types of theodolite used in triangulation survey.	
	15.03.2024	Describe the methods of base line measurement using E.D.M.	
	18.03.2024	Define tape correction.	
	19.03.2024	State co-planning/ alignment, weissbach triangle weis-quadrilateral methods, precise magnetic correlation.	
12TH	20.03.2024	State elements of curves.	
	21.03.2024	Define designation of curves, simple, compound & reverse curves.	
	22.03.2024	Explain setting out of surface & underground curves by chord.	
	27.03.2024	Previous year question & answer solve.	
	28.03.2024	Previous year question & answer solve.	

PRINCIPAL
Swami Vivekananda School of Engg. & Tech
Madanpur, BBSR
Principal


Dean Academics


H.O.D.