Specimen of lesson Plan

Name of the Faculty Ms. Sonia Saini
Discipline CIVIL ENGG.

Semester 4TH

Subject SURVEYING – II

Lesson Plan Duration 15 weeks(from January, 2018 to April,2018)

Week		Theory		P
	Lecture Day	Topic (inculding assignment/test)	Practical Day	
1st	1st	Contouring:-Concept of contours, purpose of contouring, contour interval and horizontal equivalent,	1st	Contouring:-Pre by radial line me Tangent Clinom
	2nd	factors effecting contour interval, characteristics of contours, methods of contouring:	2nd	Prepartion of m
2nd	3rd	Direct and indirect, use of stadia measurements in contour survey, interpolation of contours; use of contour map	3rd	Preparing a conformal of squares
	4th	Drawing cross section from a contour map; marking alignment of a road, railway and a canal on a contour map,	4th	Prepartion of m
3rd	5th	computation of earth work and reservoir capacity from a contour map	5th	Preparing a con Road/Railway tr cross sections
	6th	Theodolite Surveying: Working of a transit vernier theodolite, axes of a theodolite and their relation; temporary adjustments of a transit theodolite	6th	Prepartion of m
4th	7th	concept of transiting, swinging, face left, face right and changing face	7th	Theodolite:Taking mounting on the back in the box
	8th	measurement of horizontal and vertical angles. Prolonging a line (forward and backward)	8th	Study of a trans temporary adjus
5th	9th	measurement of bearing of a line; traversing by included angles and deflection angle method;	9th	Reading the ver the least count, horizontal angle reiteration meth
	10th	traversing by stadia measurement, theodolite triangulation,	10th	Measurement of use of tachome

6th	11th	Plotting a traverse; concept of coordinate and solution of omitted measurements (one side affected),	11th	Exercise/viva-vo
	12th	errors in theodolite survey and precautions taken to minimize them; limits of precision in theodolite traversing.	12th	Measurement of a line
7th	13th	Height of objects – accessible and non-accessible bases	13th	Running a close theodolite (at le
	14th	Tacho-metric surveying:-Tachometry, Instruments to be used in tachometry	14th	Height of object
8th	15th	methods of tachometry, stadia system of tachometry,	15th	Height of object
	16th	general principles of stadia tachometry,	16th	Exercise/viva-vo
9th	17th	examples of stadia tachometry and Numerical problems.	17th	Exercise/viva-vo
	18th	Curves:Simple Circular Curve: Need and definition of a simple circular curve; Elements of simple circular curve - Degree of the curve, radius of the curve	18th	Curves:-Setting curve with giver methods a) Offs produced b) On
10th	19th	(Apex point), tangent point, length of curve,	19th	Curves:-Setting curve with giver methods a) Offs produced b) On
	20th	long chord deflection angle,	20th	Minor instrume and use of mino Ceylon Ghat Tra Clinometer, Pan etc
11th	21st	Apex distance and Mid-ordinate. Setting out of simple circular curve: By linear measurements only: - Offsets from the tangent	21st	Use of planimet
	22nd	- Successive bisection of arcs - Offsets from the chord produced b) By tangential angles using a theodolite	22nd	Use of planimet
12th	23rd	b) By tangential angles using a theodolite	23rd	Exercise/viva-vo

	24th	Revision/Assignment	24th	Demonstration of through field visuand other gover
13th	25th	Introduction to the use of Modern Surveying equipment and techniques such as: a) EDM or Distomat b) Planimeter	25th	Total Station (or
	26th	c) Total station d) Introduction to remote sensing, GIS and GP	26th	Total Station (or
14th	27th	Minor Instruments:-Introduction and use of minor instruments like Ceylon Ghat Tracer, Clinometer, Pantagraph, Abney Level etc	27th	Exercise/viva-vo
	28th	Use of planimeter for computing areas	28th	Exercise/viva-vo
15th	29th	Revision	29th	Exercise/viva-vo
	30th	Assignment	30th	Exercise/viva-vo