LESSON PLAN

NAME OF THEFACULTY

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 3rd

SUBJECT : SURVEYING LESSONPLANDURATION : 15WEEKS

WORK LOADPERWEEK : 05

WEEK	LECTUR E DAY	THEORY & PRACTICAL
		TOPIC
1ST	1.	Introduction:
	2.	Basic principles of surveying and types of surveying
	3.	Concept of surveying
2ND	4.	Purpose of surveying
2ND	5.	Measurements-linear and angular, units of measurements
	6.	Instruments used for taking these measurement
3RD	7.	Classification of survey based on instruments
<i>J</i> ==	8.	System of conversion of land measurements from traditional revenue Maps/records to MKS.
	9.	Chain surveying: Purpose of chain surveying, Principles of chain surveying
4TH	10.	.Practical Exercises of chain surveying
	11.	Practical Exercises of chain surveying
	12.	Errors in chain surveying
5TH	13.	Corrections to chain length.
J =	14.	Simple related problems.
	15.	SESSIONAL TEST- 1st

16.	Compass surveying: Purpose of compass surveying, Construction and working of prismatic compass,
17.	Use of prismatic compass: Setting and taking observations
18.	Practical Exercises of compass surveying
19.	Use of prismatic compass: Setting and taking observations
20.	Concept of: (a) Meridian - Magnetic and true b) Bearing - Magnetic, True and Arbitrary
21.	Practical Exercises of compass surveying
22.	(c) Whole circle bearing and reducedbearing (d) Fore and backbearing
23.	(1)
25.	Local Attraction-causes, Detection & precautions against local attraction
24.	Practical Exercises of compass surveying
25.	Levelling: Purpose and concept of levelling, reduced level and bench marks
26.	Construction of Dumpy level Concepts of line of collimation, axis of the bubble tube, axis of the telescope and vertical axis.
27.	Practical Exercises of levelling.
	Temporary adjustment: setting up and leveling
20.	Tomporary adjustments seeming up and 10 toming
29.	Concept of back sight, foresight, intermediate sight, station change point, to determine reduced levels
30.	SESSIONAL TEST- 2nd
31.	Level book and reduction of levels by
22	Height of instrument method and Disc and fall method
32.	Height of instrument method and Rise and fall method Arithmetic checks, problems on reduction of levels
33.	Practical Exercises of levelling.
34.	Computations of Areas of regular figure and irregular figure. Simpson rule
	Plane Table Surveying:
35.	Purpose of plane table surveying, equipment used in plane table survey: (a) Plane table and its accessories
	17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32.

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	37.	Setting of a plane table:(a) Centering (b) Leveling (c) Orientation
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H	38.	Methods of plane table surveying (a) Radiation, (b) Intersection (c)
		Traversing
		Two Point Problem
		1 WO I OIRL I TOOKIII
	39.	Practical Exercises of Plane Table Surveying.
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	40.	Contouring:
14T		Contouring: Concept of contouring.
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	41.	Contouring: Concept of contouring.
		Contour interval and horizontal equivalent
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	42.	Described Francisco of Controller
	42.	Practical Exercises of Contouring.
	43.	Instruments : Demo and uses of: Theodolite
1.5T		
15T		
H	44.	Use of Modern Surveying equipment (Auto Level, Micro-optic Theodolite,
		Total station.
		1 Otal Station.
	45.	SESSIONAL TEST- 3rd