Architectural Assistantship Department
Session 2024-25 (2nd Semester)

Subject: Surveying **Load: Theory -03, Practical- 04**

Week	Theory			Practical
	Lecture Day	Topic (including assignment / test)	Practical Week	Practical Day
	Unit -1 Introuction to Surveying			
1st	1st	Definition of Surveying, Basic Principles, Objective , Purpose of surveying, Units of	1st	Demo of Arrows,Ranging Rods, Tapes, Cross Staff,
	2nd	Intruments use for taking measurment, classifiacation of survey, Primary division of surveying , system of conversion of land measurment, Conventional Symbols		
2nd	3rd	**Assignment I - MCQ's** **Assignment II- VERY SHORT ANSWERS**	2nd	Demo of Plumb bob, pegs, cross staff
	Unit- 2 Compass Surveying			
	4th	Purpose and Principles of Compass Surveying, , Types of compass and their uses, Instruments used in compass surveying,		
3rd	5th	Setting and taking of observations, Concept of Bearings,- Magnetic, True , Arbitrary,Rules of converting W.C.B to R.C.B and vice versa, Numerical based on bearings	3rd	Study of Prismatic Compass
	6th	Concept of Meridian- Magnetic and true, Magnetic dip and Declination		
4th	7th	**Ist SESSIONAL WEEK**	4th	**Ist SESSIONAL WEEK**
	8th			
5th	9th	Local Attraction-causes, detection,	5th	Setting the compass and taking observation
	10th	**Assignment I - MCQ's** **Assignment II- VERY SHORT ANSWERS**		
6th	11th	**TEST -I Full chapter**	6th	Measuring angles between the lines meeting at a point
	Unit -3 Levelling			
	12th	Definition; Principle; Important terms;Purpose; Different types of levels, Parts of level , construction of dumpy level,		
7th	13th	Temporary adjustment of Dumpy level, Bench Mark, types of bench mark,levelling staff, levelling staves depending on method of reading	7th	Study of Dumpy level and levelling staff
	14th	levelling staves depending on method of contruction, Holding the saff, reading the staff, points to be followed by staffman and level man, level book		
8th	15th	Reduction of levels- Height of instrument method (collimation method) and Rise & fall method	8th	Taking staff readings on different stations

	16th	Numericals on Rise and fall method &Height of instrument method (collimation method)		different stations and finding levels
9th	17th	**IInd SESSIONAL WEEK**	9th	**IInd SESSIONAL WEEK**
	18th			
10th	19th	**Assignment I - MCQ's** **Assignment II- VERY SHORT ANSWERS**	10th	To find out difference of level between two points by shifting
	20th	**TEST -I**		
	Unit -4 Plane Table Surveying			
11th	21st	Principle; definition; merits & Demerits,Accessories of Plane table surveying; Setting , levelling centering	11th	Study of PTS equipment; Setting the PT; Orientation by trough compass,
	22nd	Methods of PTS : Radiation , Traversing, Intersection, resection		
12th	23rd	**Assignment I - MCQ's** **Assignment II- VERY SHORT ANSWERS**	12th	Plotting few points by radiation method
	Unit -5 Modern Equipments			
	24th	Introduction to GPS & GIS,EDM,Theodolite, total station, Auto level		
13th	25th	**IIIrd SESSIONAL WEEK**		
	26th			
14th	27th	Revision of UNIT -I, II		
	28th	Revision of UNIT -III,IV,V		
15th	29th	Revision of full syllabus as per previous question paper		
	30th	Revision of full syllabus as per previous question paper		

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