

Discipline	Architectural Assistantship		
Semester	3rd		
Subject	Surveying		
Lecture per	2		

Week	Theory		Practical Week	Practical	
	Lecture Day	Topic (including assignment / test)		Practical Day	Topic
	Unit -1 (Introuction to Surveying)				
1st	1st	Basic Principles, Types of Surveying, Concept, Purpose, Units of measurments	1st	Demo of Chains, Arrows,Ranging Rods, Tapes, Cross Staff	
	2nd	Intruments use for taking measurment, classifiacation of survey, system of conversion of land measurment			
	Unit -2 (Chain Surveying)				
2nd	3rd	Purpose and Principles of chain surveying, Types of Chain, Instruments used in chain Surveying	2nd	Ranging a Line by Eye Judgement	
	4th	Error in chain surveying, Numericals on correction to chain			
	Unit -3 (Compass Surveying)				
3rd	5th	Purpose and Principles of Compass Surveying, Types of compass and their uses, Instruments used in compass surveying	3rd	Cahining of a Line, using Tape	
	6th	Rules of converting W.C.B to R.C.B and vice versa, Concept of Bearings, Numerical based on bearings			
4th	7th	Local Attraction-causes, detection, precautions	4th	Study and Setting of Prismatic Compass	
	8th	Numericals based on Local Attraction			
	Unit -4 (Levelling)				
5th	9th	Purpose and Concept of Levelling, R.Ls and B.Ms	5th	Taking Observations and Measuring Angels between lines using prismatic compass	
	10th	Concept of line of Collimation, axis of bubble tubes, axis of telescope and vertical axis			
6th	11th	Concept of B.S, F.S & I.S, stations C.P to determine to reduce levels,	6th	Study of Dumpy Level and leveling staff, Temporary adjustment of dupmy level	
	12th	Problems on H.O.I & Rsie & Fall methods with check			
7th	13th	Sessional Week			
	14th				
8th	15th	Errors in levelling and Precautions	8th	Taking Staff Readings on Different Station from a single setting and Finding differences of level between them	
	16th	Computation of areas of regular and irregular figures			
	Unit -5 (Plane Table Surveying)				
9th	17th	Purpose of Plane Tabling, Instruments used in Plane Tabling,	9th	Plotting few points by radiation methods of plane table survey	
	18th	Methods of Plane Table surveying			
10th	19th	Centering, Leveling orientation	10th	Plotting few points by Inter Section methods of plane	
	20th	Two point problem			
11th	21st	Sessional Week			
	Unit -6 (Contouring)				
12th	23rd	Concept of Contour, Contour Interval and Horizontal Equivalent	12th	Computing areas by planimeter	
	24th	Characterstics and Methods of Contouring			
	Unit -7 (Instruments)				
13th	25th	Demo and uses of Theodolite	13th	Demo of Modern Equipments	
	26th	Characterstics of Theodolie			
	Unit -8 (Use of Modern Surveying Equipment)				
14th	27th	Autolevel, Micro Optic Theodolite, Total Station	14th	Submission of Practical Files	
	28th	EDM, Plannimeter			
	Unit 3 (Sound Insulation)				
15th	29th	Sessional Week			
	30th				
16th	31st	Revision of whole syllabus based on previous question papers			
	32nd				