



Lectures of the Department of Civil Engineering

Subject Title:- Engineering Survey Class:-Second class

	Lecture sequences First lecture Instructor				
	The major content 1- Definitions and ba	s : asic terminology of Su	ırveying.		
Lecture Contents					
	The detailed conte 1-Types of Surveying 2-Types of Errors 3-Mistakes, random, 4-Scales 5-Methods of represe	g)		

	Lecture sequences	Second lecture	Instructor	Name
Lecture Contents	The major content 1- Definitions and ba	s : asic terminology of Su	urveying.	
	The detailed conte 1-Types of Surveying 2-Types of Errors 3-Mistakes, random, 4-Scales 5-Methods of represe	g	p	

	Lecture sequences	third lecture	Instructor	Name	
	The major content				
	1- Tape measurement	its and corrections.			
Lecture					
Contents					
	The detailed conte				
	1- Tape measuremen		11. (,•	
	3-Tape traverse and	Temperature, Sag, Slo	pe, pull, Corr	ections	
	-	eas, Traverse corrdect	ion using grai	ohical	
	methd	, -11.50 00114000			

	Lecture sequences	forth lecture	Instructor	Name
	The major content	S:		
	1- Leveling Principle	es.		
Lecture				
Contents				
	The detailed contents:			
	· •	osition of a level,Typ l, HI and Rise and Fal		
		d atmospheric correct		
	4-Reciprocal leveling	2	-	
5-Check leveling and closing error.				
	6-Two peg test			

	Lecture sequences	fifth lecture	Instructor	Name
	The major content 1- Profiles and cross			
Lecture Contents				
	The detailed contents: 1- Choosing the appropriate horizontal and vertical scales. 2-Contour Interval, Methods of contouring, How to interpolate the location of a contour line. 3-Theodolite for angular measurements 4-Theodolite composition and parts. Centering and leveling. Reading the angle according to different types. Face Right and Face left readings for better angular precision.			

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	Lecture sequences	sixth lecture	Instructor	Name
	The major content			
	1- Profiles and cross	sections.		
Lastura				
Lecture Contents				
Contents	The detailed center			
	The detailed conte	ents: ropriate horizontal and	d vertical scal	AC
		Methods of contouring		
	the location of a con-	•	J,	1
	3-Theodolite for ang			1.
	4-Theodolite composition and parts. Centering and leveling Reading the angle according to different types. Face Right an			
		r better angular precis		Siit aiia
		.		

	Lecture sequences	seventh lecture	Instructor	Name
	The major content 1- Theodolite travers			
Lecture Contents				
	for traverse correction 2-Tacheometry using	raverses, Correcting a on. g theodolites and level		ass rule

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	Lecture sequences	eighth lecture	Instructor	Name
	The major content			
	1- Theodolite travers	se.		
Lecture				
Contents				
	The detailed conte 1- EDM, microwave			
	2-The meaning of EI			
	3-Areas	and irregular figures.		
	4- Aleas for legular	and irregular rigures.		

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	Lecture sequences	ninth lecture	Instructor	Name
	The major content			
	1- Theodolite travers	se.		
Lecture				
Contents				
	The detailed conte			
	1- Trapezoidal and S2- Coordinates met	-		
	3- The Planimeter			

	Lecture sequences	tenth lecture	Instructor	Name
Lecture	The major content 1- Volumes	s :		
Contents	The detailed conte 1- Method of longitu 2-Method of cross se 3-Method of grid lev 4-Method of contour 5-Horizontal Curves 6-Curve definition and	dinal sections ections els s.	Curves	

	Lecture sequences	eleventh lecture	Instructor	or Name	
I ecture		ents:			
Contents	Lecture Contents 1- Method of longitudinal sections 2-Method of cross sections 3-Method of grid levels 4-Method of contours. 5-Horizontal Curves. 6-Curve definition and symbols, Types of Curves .7- Method of longitudinal sections • Method of cross sections • Method of grid levels • Method of contours. • Horizontal Curves. • Curve definition and symbols, Types of Curves • Method of taping • Single theodolite method • Two theodolites method.				

	Lecture sequences	twelfth lecture	Instructor	Name
	The major content 1- Volumes - Vertical Curv Summit and Sa Parabolic form - GPS principle	es ag Curves nula for solution		
Lecture Contents	 .7- Method of longitum Method of cross Method of gride Method of constant -Horizontal Cu 	dinal sections ections els s. nd symbols, Types of exidinal sections ss sections d levels atours. arves. on and symbols, Types ing ite method		