

UNIVERSITI TEKNOLOGI MARA

AGR358: LAND SURVEY

Course Name (English)	LAND SURVEY APPROVED		
Course Code	AGR358		
MQF Credit	3		
Course Description	Introductory course of land surveying, to expose student to the knowledge and skills in land surveying, in conducting simple land surveying in the estate, to draw and read map and to estimate areas and volumes of earthwork.		
Transferable Skills	Confident		
Teaching Methodologies	Lectures, Lab Work, Practical Classes		
CLO	CLO1 Able to identify, recognize and operate simple land surveying in the estate using the relevant surveying tools. CLO2 Draw and read site maps and plans. CLO3 Able to calculate areas using various mathematical sand surveying methods. CLO4 Plan and supervise the construction of estate roads, drains and terraces.		
Pre-Requisite Courses	No course recommendations		
Topics			
1. Introduction 1.1) Definition 1.2) Branches of Surveying 1.3) Basic Measurement			
2. Chain Survey 2.1) Procedure 2.2) Overcoming Obs 2.3) Mapping & Area	struction, Slope Correction Calculation		

2.3) Mapping & Area Calculation

- 3. Compass Survey
 3.1) Basic Concept
 3.2) Instrument
 3.3) Plotting & Closing Error

- 4. Levelling
 4.1) Introduction
 4.2) Instruments
 4.3) Procedure

- **5. Contouring** 5.1) Characteristics 5.2) Plotting Procedur

6. Estate Road & Drain Construction 6.1) The Concept 6.2) Trapezoidal Formula 6.3) Simpson's Method

7. Introduction to GPS and GIS 7.1) n/a

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Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Practical	n/a	10%	CLO2, CLO4
	Quiz	Quiz 1	5%	CLO1
	Quiz	Quiz 2	5%	CLO1
	Test	Test 1	15%	CLO1, CLO3
	Test	Test 2	15%	CLO2, CLO3

Reading List	Reference Book	Perkins, R.B. 1978, Estate Surveying. Incorporated Society of Pla, 2 Ed., Kuala Lumpur Jumri B. Ramli 1989, Ukur Kejuruteraan, Delta, Petaling Jaya Paul R. Wolf and Russel C. Brinkler 1998, Elementary Surveying, Harper Collins College Publishers Malcom, John 1981, Elementary Surveying, 3 Ed., University Tutorial Press, London	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

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