



UNIVERSITI TEKNOLOGI MARA

BSS413: LAND SURVEYING

Course Name (English)	LAND SURVEYING APPROVED
Course Code	BSS413
MQF Credit	3
Course Description	The subject aims to develop knowledge in land surveying introduced in the course. The student will be exposed to the fieldwork and variety of surveying application.
Transferable Skills	Teamwork and problem solving skills.
Teaching Methodologies	Lectures, Practical Classes
CLO	CLO1 Understand the concept of traverse survey and acquire knowledge of tachometry survey. CLO2 Apply the surveying procedure of site setting out. CLO3 Calculate various technique in and interpreting data in surveying.
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction to Surveying 1.1) 1. Primarily Surveying 1.2) 2. Branching of Surveying 1.3) 3. Strata Surveying	
2. Levelling 2.1) 1. Elements of Surveyor's Level 2.2) 2. Procedure 2.3) 3. Uses of Levelling	
3. Theodolite Survey (Traverse Control) 3.1) 1. Modern Theodolite 3.2) 2. Traverse Theodolite	
4. Tachometry 4.1) 1. Introduction 4.2) 2. Optical Principle 4.3) 3. Basic Equation 4.4) 4. Usage	
5. Setting Out 5.1) 1. Introduction 5.2) 2. Control Survey for Building Construction Line 5.3) 3. As Built Drawing	
6. Measurement (Area and Volume) 6.1) 1. Introduction 6.2) 2. Planimeter 6.3) 3. Areas Enclosed by Straight Lines 6.4) 4. Irregular Figures, Trapezoidal Rule and Simpsons's Rule 6.5) 5. Volumes	
7. Test 7.1) n/a	

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	n/a	25%	CLO1 , CLO2 , CLO3
	Assignment	n/a	25%	CLO1 , CLO2 , CLO3

Reading List	Reference Book Resources
	<ul style="list-style-type: none"> • Muskett, J. 1995, <i>Site Surveying</i>, Second Edition Ed., Blackwell Science Oxford • Whyte, W. and Paul, R. 2000, <i>Basic Surveying</i>, Fourth Edition Ed., Heinemann Butterworth • Wolf, P.R. and Ghilani, C.D. 2002, <i>elementary Surveying</i>, Tenth Edition Ed., Prentice Hall New Jersey • Uren, J. and Price, W.F. 1994, <i>Surveying for Engineers</i>, Palgrave New York • Schofield, W. 1993, <i>Engineering Surveying</i>, Fourth Edition Ed., Heinemann Butterworth • Wirshing, J.R. and Wirshing, R.H. 1985, <i>Introductory Surveying</i>, Mc Graw Hill London • Irvine, W.H. and Maclennan, F. 2006, <i>Surveying for Construction</i>, Mc Graw Hill London • Kavanagh, B.F. 2006, <i>Surveying: Principles and Applications</i>, Seventh Edition Ed., Prentice Hall New Jersey

Article/Paper List	This Course does not have any article/paper resources
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Other References	This Course does not have any other resources
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