COURSE OUTLINE

Department & Faculty: Civil Engineering, Property Management And Land Surveying Full Time Program UTMSPACE Kolej Teknologi Darulnaim	**Page 1 of 6**
Course Code: Statistics for Real Estate Manager (DDWF 2232) Total Contact Hours: 42 hours	**Semester I** Academic Session: 2018/2019

Lecturer: Dr Jusoh Bin Yacob
Room No: Open Lab
Telephone No. 013-9222678
Synopsis: This course consists of introduction to statistics for manager. Before statistics analysis, student should know the concept of sampling theory and types types of statistics and the types of data, the theory of data collection, arranging data, presenting the data and analyze the data. Analyze the data is very important to property manager and using the result of analysis for decision-making of for management. Analysis of statistics consists of measure of central tendency and dispersion, correlation and simple linear regression, multiple regression, index. Through assignments and project work, students are led to develop skills to communicate effectively, to lead and cooperate as team members, be highly motivated, disciplined and ethical.

LEARNING OUTCOMES
By the end of the course, student should be able to:

No.	Course Learning Outcome	Programme Learning Outcome(s) Addressed	Taxonomy and KI Levels	Assessment Methods
1.	Describe and explain the concept and the methodology of sampling techniques to solve the problem in real estate	**PLO1**	**C3**	Quizes, Test and Final Examination
2.	Define an index number, compute and evaluate the simple index, composite index and weighted index numbers. Conduct a mini project-collect the raw data. Organize, analysis and present the the raw data into statistical analysis.	**PLO3**	**P1-P3, CTPS1-CTPS2**	Project

Prepared by: Course Coordinator **Name: Syed Kamal Ariffin Syed Osman** **Signature:** **Date: JUNE 2017**	**Certified by: Head of Department** **Name: Mohamad Shafie Bin Abdul Rashid** **Signature:** **Date: MAY 2017**

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3.	Develop qualities of an effective team player and reporting information.	PLO5	A1-A3 TS-TS2	Tutorial/ Project
4.	Demonstrate and practice leaderships skills and qualities	PLO9	A1-A3 LS-LS2	Tutorial/ Project

STUDENT LEARNING TIME

No.	**Teaching and Leaning Activities**	**Student Learning Times (hours)**
A.	Face-to-face Learning	
	1. Lectures	28
	2.Tutorial	14
	3. Student Centered Learning (SCL) Activities	-
B.	Self Directed Learning (SDL)	
	1.Non Face-to-face Learning	25
	2. Revision	5
	3. Assessment Preparation	5
C.	Formal Assessments	
	1. Continuous Assessment :Test	1
	2. Final Examination	2
	Total	**80**

TEACHING METHODOLOGY
Lecture and Tutorial, In-class exercises, co-operative Learning, Independent Study, Individual and group mini project

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WEEKLY SCHEDULE

Week/ TM/CO	Lecture(hours)	Tutorial/ SDL(hours)	Topic
Week 1 LECTURE (**CLO1**)	3	1	**1.0 INTRODUCTION TO STATISTICS AND THE SAMPLING THEORY** 1.1 Terms and definitions 1.2 Types of variables or data
Week 2 LECTURE **Quiz 1** Mini Project	3	1	1.3 Collection of data-population & sample 1.4 Sampling methods
Week 3 LECTURE **(CLO2)**	3	1	2.0 **PRESENTING DATA** 2.1 Organizing Data-grouped and ungrouped data. The ordered array ascending & descending
Week 4 LECTURE **(CLO1 & CLO2)** **Quiz 2**	3	1	2.2 Table presentation-Constructing a frequency, relative frequency & cumulative distribution 2.3 Charts and graphics presentation
Week 5 LECTURE **(CLO2, CLO3)** **(CLO 4)**	3	1	**3.0 DESCRIBING DATA- MEASURES OF CENTRAL TENDENCY** 3.1 Measurement of central tendency-mean, median and mode for ungrouped and grouped data
Week 6 LECTURE **(CLO2, CLO3 CLO4**	3	1	3.2 Relationship between mean, median and mode-skewness and kurtosis
Week 7 LECTURE **(CLO2, CLO3 CLO4)** TEST 1	3	1	**4.0 DESCRIBING DATA-MEASURE OF DISPERSION** 4.1 Measurement of dispersion-range, variance, standard deviation and coefficient variation
Week 8 LECTURE **(CLO2, CLO3 CLO4)**	3	1	4.2 Interpretation and uses of the standard deviation

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Week 9 LECTURE **(CLO2, CLO3 CLO4)**	3	1	5.0 CORRELATION AND SIMPLE REGRESSION 5.1 Introduction to correlation 5.2 The coefficient of correlation and determination
Week 10 LECTURE **(CLO2, CLO3 CLO4)** Quiz 3	3	1	5.3 Introduction to simple linear regression 5.4 Simple linear regression equation-the coefficient of regression. 5.5 The standard error of the estimate.
Week 11 LECTURE **(CLO2, CLO3 CLO4)**	3	1	**6.0 MULTIPLE REGRESSION** 6.1 Introduction to multiple regression 6.2 Developing the multiple regression model.
Week 12 LECTURE **(CLO2, CLO3 CLO4)** Quiz 4	3	1	6.3 Interpreting the multiple regression coefficients 6.4 Multiple standard error of estimate.
Week 13 LECTURE **(CLO2, CLO3 CLO4)** Quiz 5	3	1	**7.0 INDEX NUMBERS** 7.1 Introduction to index number 7.2 Uses of index numbers
Week 14 LECTURE **(CLO2, CLO3 CLO4)** TEST 2	3	1	7.3 Simple index, un-weighted aggregates, weighted aggregates index-price, quantity and value indices.

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MAIN TEXT:

Lau Too Kya, Phang Yook Ngor, Zainudin Awang (2015), Statistics, 3^{rd} Edition, Oxford Fajar.

REFERENCES:

1. Muhammad Rozi Malim, Faridah Abdul Halim (2011), Business Statistics, Oxford University Press.
2. Gred Dickman (2001), Business Statistics (2^{nd} edition), Thomson
3. Mario, F. Triols (2001)(12^{th} Edition), Elementary Statistics
4. Micheal Sullivan III (2012). Statistic: Informed Decisions using Data (14^{nd} Edition)
5. Micheal Sullivan III(2012), Fundermental Statistics.
6. Mark L. Betrenson, David M. Levine, Timorthy C. Krehbiel, Basic Business Statistics Concepts and Applications, Prentice Hall 8^{th} Edition, 2002
7. David, R. Anderson an Dennids J. Sweeney (2014). Essential of statistics for Business and economics.
8. Richard I. Levin, David S, Rubin, Statistics for management, Prentice Hall 7^{th} edition.
9. Cho Wei Chong, Goh Poi Leng, Murali Sambasivan, Business Statistics Prentuce hall, 2^{nd} edition, 2002.
10. Lau Too Kya, Zainuddin Awang, Statis Asas ITM, Fajar Bakti Sdn Bhd.

GRADING

Item	Assessment Method	Number	Each Assessment %		Overall %		Implementation Date
			Mainstream	JP*	Mainstream	JP*	
1.			Mainstream	JP*	mainstream	JP*	
	Test	2			20%	20%	
	Test 1		10%	10%			
	Test 2		10%	10%			Week 7 & Week 14
2.	Exercise	5	5%	2%	20%	10%	Weeek 2-13
3.	Mini project	-	10%	10%	10%	10%	Week 2-13
4.	Final Exam	1	50%	40%	50%	60%	

*Mainstream-PPD and PPSM

JP-Joint Programme (PPK)

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GRADE

PERCENTAGE	GRADE	POINT VALUE
90-100	A+	4,00
80-89	A	4.00
75-79	A-	3.67
70-74	B+	3.33
65-69	B	3.00
60-64	B-	2.67
55-59	C+	2.33
50-54	C	2.00
45-49	C-	1.67
40-44	D+	1.33
35-39	D	1.00
30-34	D-	0.67
0-29	E	0.0