COURSE OUTLINE

Department & Faculty: **Dept. of Built Environment** **Center For Diploma Studies SPACE**	**Page : 1 of 4**
Course Code : Statistics for Real Estate Manager (DDPF 2232) **Total Contact Hours : 42 hours**	**Semester : I** **Academic Session : 2012/2013**

Lecturer :

Room No. :

Telephone No. :

E-mail :

Synopsis : This course consists of introduction to statistics for property manager. Before statistics analysis, student should know the concept of sampling theory and the types of statistic and 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 or 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, students should be able to:

No	Course Learning Outcome	Programme Learning Outcome(s) Addressed	Taxanomy and KI levels	Assessment Methods
1.	Describe and explain the concept and the methodology of sampling techniques to solve the problem in real estate.	PO1	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. Organise, analysis and present the raw data into statistical analysis.	PO3	P1-P3 CTPS1-CTPS2	Project
3.	Practice ethics and values towards oneself and others	PO8	A1-A3 EM1-EM2	Report

Prepared by: **Name:** **Signature:** **Date:**	**Certified by: (Course Panel Head)** **Name:** **Signature:** **Date:**

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STUDENT LEARNING TIME

Teaching and Learning Activities	Student Learning Time (hours)
A. Face-to-face Learning	
1. Lecture	28
2. Tutorial	14
3. Student Centered Learning	-
B. Self Directed Learning	
1. Non face-to-face : project	25
2. Revision	5
3. Assessment Preparation	5
C. Formal Assessment	
1. Continuous Assessment : test	1
2. Final Exam	2
Total	**80**

TEACHING METHODOLOGY

Lecture and tutorial, In-class exercises, Discussion, Co-operative Learning, Independent Study, Individual and group mini project.

WEEKLY SCHEDULE

Week 1 & 2 : **1.0 INTRODUCTION TO STATISTICS AND THE SAMPLING THEORY**

Definition and types of statistics.
Types of variables or data
Collection of data – populations & sample
Sampling methods

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Week 3 & 4 : **2.0 PRESENTING DATA**

Organizing Data – group and ungroup data. The ordered array ascending & descending
Table presentation - Constructing a frequency, relative frequency & cumulative distribution.
Charts and graphics presentation

Weeks 5 & 6 : **3.0 DESCRIBING DATA - MEASURES OF CENTRAL TENDENCY**

Measurement of central tendency – mean, median and mode for ungroup data and group data

Relationships between mean, median and mode – skewness and kurtosis

Weeks 7 & 8 : **4.0 DESCRIBING DATA - MEASURES OF DISPERSION**

Measurement of dispersion – range, variance, standard deviation and coefficient variation

Interpretation and uses of the standard deviation

Weeks 9 & 10 **5.0 CORRELATION AND SIMPLE REGRESSION**

Introduction to correlation

The coefficient of correlation and determination.

Introduction to simple linear regression.

Simple linear regression equation – the coefficient of regression.

The standard error of the estimate

Week 11 & 12 **6.0 MULTIPLE REGRSSION**

Introduction to multiple regression

Developing the multiple regression model

Interpreting the multiple regression coefficients.

Multiple standard error of estimate.

Week 13 & 14 : **7.0 INDEX NUMBERS**

Introduction to index number

Uses of index numbers

Simple index, un-weighted aggregates, weighted aggregates index

- price, quantity and value indices

REFERENCES :

Greg Dickman, 2001 **Business Statistics**, 2nd edition, Thomson

1. Mark L. Berenson, David M. Levine, Timothy C. Krehbiel, ***Basic Business Statistics***

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Concepts and Applications, Prentice Hall, 8th Edition, 2002

2. Richard I. Levin,David S. Rubin ***Satisitics for Mangement,*** Prentice Hall 7th edition
3. Choo Wei Chong, Goh Poi Leng, Murali Sambasivan, ***Business Statistics***, Prntice Hall, 2nd edition, 2002
4. Lau Too Kya, Zainuddin Awang, ***Statistik Asas ITM***, Fajar Bakti Sdn Bhd
5. Kuan Kee Sin, ***Statistik Permulaan***, Siri Pendidikan Jarak Jauh DBP

GRADING

No.	Assessment	Number	Each Assessment %	Overall %	Dates
1	Mini Project	1	10% CTPS1-CTPS2 EM1-EM2	10	Weeks2 - 13
2	Exercise	3	5%	15	
3	Test 1	1	15%	15	Week 9
4	Final Exam	1	60%	60	
	Overall Total			**100**	