

COURSE OUTLINE

Department & Faculty: Dept. of Built Environment Centre For Diploma Studies SPACE	Page : 1 of 5
Course Code : Computer Application in Real Estate (DDPF 3254) Total Contact Hours : 70 hours Pre-Requisite : Applied Valuation (DDPF 2443)	Semester:1 Academic Session: 2012/2013

Lecturer :

Room No. :

Telephone No. :

E-mail :

Synopsis : This course introduces students to the basic knowledge of computer aided valuation in property valuation, property management, real estate agency and property investment analysis using Excel and Access applications. It covers Excel application in building valuation tables, usage of simple statistical analysis and computer aided valuation in valuing different types of properties. Property investment analysis covers discounted cash flow, internal rate of return and net present value. Access application covers creating a database, querying a database and maintaining a database for use in property. The students are also introduced to drawing of building plans and preparation of location and site plans using Visio and Google Earth and Wikimapia respectively. At the end of this course, students should be able to use and apply their knowledge and skills related to Excel and Access application in property valuation, able to apply simple statistical analysis in property, able to carry out property investment analysis and able to create, query and maintain data base system, draw building plans and prepare location and site plans.

LEARNING OUTCOMES

By the end of the course, students should be able to:

No.	Course Learning Outcome	Programme Learning Outcome(s) Addressed	Taxonomy and KI levels	Assessment Methods
1.	Apply, execute and demonstrate EXCEL to formulate and build valuation tables, loan repayment tables and depreciation tables. Sketch and Draw building plans by using MICROSOFT VISIO	PO2	P4	Projects 1,2 and 3 Final Exam
2.	Use Excel to analyse property investment by using discounted cash flow, internal rate of return, net present value and the use of simple statistical analysis and draw graphs. Create, query and maintain property valuation and property	PO3	P4 CTPS1-CTPS3	Project 2 and 3 Final Exam

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	management data base systems by using ACCESS application.			
3	Relate relevant information regarding computer application in property to real estate profession	PO6	A3 LL1-LL2	Project 2

STUDENT LEARNING TIME

Teaching and Learning Activities	Student Learning Time (hours)
A. Face-to-face Learning <ol style="list-style-type: none"> 1. Lecture 2. Practical 3. Student Centered Learning B. Self Directed Learning <ol style="list-style-type: none"> 1. Non face-to-face eg assignments 2. Revision 3. Assessment Preparation C. Formal Assessment <ol style="list-style-type: none"> 1. Continuous Assessment 2. Final Exam 	28 28 14 60 10 17.5 - 2.5
Total	160

TEACHING METHODOLOGY

Lecture and hands on tutorials, Co-operative Learning, Independent Study, Group Assignment and Individual Assignment.

WEEKLY SCHEDULE

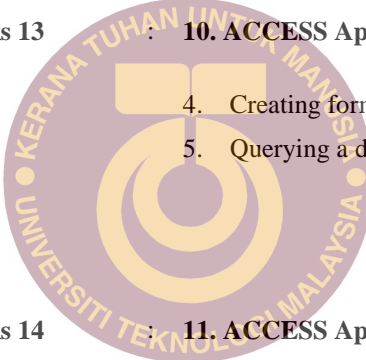
Week 1 : **1. Introduction to Microsof Visio and similar software**
 1.Drawing Building Plans

2. Introduction to Google Earth and similar website
 1.Locating of properties
 2.Preparing location plans

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<p style="text-align: center;">3.Preparing site plans</p> <p>Project 1</p> <p>Week 2 : 3. Introduction to Excel Application:</p> <ol style="list-style-type: none"> 1. Explain how to start an interact with Excel 3. Identify the features of Excel in creating a worksheet, 4. Perform calculations using formulas, functions and formatting 5. Create charts and the application of a simple statistical analysis. <p>Weeks 3 : 4. Excel Application in :</p> <ol style="list-style-type: none"> 1. The concept of time value of money 2. The process of compounding in finance and the use in real estate finance. <p>Weeks 4 : 5. Excel Application in Calculating, formulate and construct the valuation tables:</p> <ol style="list-style-type: none"> 1. Present Value of RM1 2. Years' Purchase (single rate and dual rate, with and without tax). 3. Years' Purchase in Perpetuity, Annual Sinking Fund, Amount of RM1, Amount of RM1 per annum, Annuity RM1 will purchase (single rate and dual rate) and mortgage schedule. <p>Submit Project 1</p> <p>Weeks 5 : 6. Excel Application in CAV:</p> <ol style="list-style-type: none"> 1. Comparison method of Valuation <p>Project 2</p> <p>Weeks 6 : 2. Cost Method of Valuation</p> <p>Weeks 7 : 3. Profits Method of Valuation</p> <p style="text-align: center;">MID SEMESTER BREAK</p> <p>Weeks 8 : 4. Investment Method of Valuation</p> <p>Week 9 : 5. Residual Method of Valuation</p> <p>Weeks 10 : 7. Excel Application in :</p>	

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<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Weeks 11 : 7. Excel Application in :</p> <p>1. Discounted cash flow</p> <p>2. NPV and IRR</p> <p>Weeks 12 : 8. ACCESS Application</p> <p>Submit Project 2</p> <p>1. Explain how to start and interact with Access</p> <p>2. Identify the features of Access</p> <p>3. Creating a database</p> <p>Project 3</p> <p>Weeks 13 : 10. ACCESS Application</p> <p>4. Creating forms and sub forms</p> <p>5. Querying a database</p> <p>Weeks 14 : 11. ACCESS Application</p> <p>6. Calculations in a database</p> <p>7. creating reports and mail merge</p> <p>8. Maintaining a database</p> <p>Submit Project 3</p> <p>9. Describe the learning aids available for Access.</p> </div> <div style="width: 50%; text-align: right; padding-top: 100px;">  <h1 style="font-size: 4em; margin: 0;">UTM</h1> <p style="font-size: 1.5em; margin: 0;">UNIVERSITI TEKNOLOGI MALAYSIA</p> </div> </div>	

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REFERENCES :

1. The Board of Valuers, Appraisers and Estate Agents, Malaysia, *Manual of Valuation Standards*.
2. Newby, Timothy J (2009), *Teaching and learning with microsoft office 2007 and expression web : a multilevel approach to computer integration 2nd.ed.*, Boston, Pearson
3. S. Matthews, Martin (2010), *Dynamic web programming : a beginner's guide* ,New York :McGraw-Hill
4. Tony Johnson, Keith Davies, Eric Shapiro (2009) *Modern Methods Of Valuation, 10th Edition*, RICS BOOKS
5. Douglas Scarret (2008), *Property Valuation: The Five Methods, 2nd Edition*, Routledge.
6. Azahari Husin, *Kaedah Penilaian Harta Tanah*, Dewan Bahasa dan Pustaka, 1996.

GRADING

No.	Assessment	Number	Each Assesment %	Overall total %	Dates
1	Project	3		40	
2	Project 1		10	10	Weeks 1-4
3	Project 2		CTPS1-CTPS3 LL1-LL2 15	15	Weeks 5-12
4	Project 3		CTPS1-CTPS3 15	15	Weeks 12-14
5	Final Exam	1	60	60	
6	Overall Total			100	