



UNIVERSITI TEKNOLOGI MARA

BCM432: INFORMATION AND COMMUNICATION TECHNOLOGY

<b>Course Name (English)</b>	INFORMATION AND COMMUNICATION TECHNOLOGY <b>APPROVED</b>
<b>Course Code</b>	BCM432
<b>MQF Credit</b>	2
<b>Course Description</b>	This course introduces students to the history and development in ICT as used in the general working environment, as well as in the construction industry. It also covers the application of current software in implementing projects in construction.
<b>Transferable Skills</b>	Computer Software Skill
<b>Teaching Methodologies</b>	Lectures, Blended Learning, Lab Work
<b>CLO</b>	CLO1 Distinguish suitable computer hardware and software applications for use in the construction industry CLO2 Demonstrate knowledge and skills on software application to accomplish assigned task CLO3 Present information clearly and appropriately well to the targeted audience
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	<p><b>1. Overview of the Computers in Construction Industry</b> 1.1) History of computer and digital world 1.2) Revolution of computing (Hardware and software) 1.3) The Information Superhighway 1.4) Information and Knowledge Management</p> <p><b>2. Application Software in Construction</b> 2.1) Advanced Office Application Software 2.2) Word Processing 2.3) Academic Report Format, Referencing 2.4) Electronic Spreadsheet – 2.5) Statistic Analysis, Pivot Table, Simple Costing and Budgeting etc. 2.6) Interactive Presentation 2.7) MS Powerpoint, Preezi or other related presentation software 2.8) Project Planning Software 2.9) Introduction and basic function of project planning software</p> <p><b>3. Collaborations and Networking tools</b> 3.1) Networking 3.2) The internet 3.3) Functions to the construction teamwork 3.4) Cloud computing e.g Remote Desktop etc.</p> <p><b>4. ICT and Society, Issues , Opportunities and Challenges</b> 4.1) Computers in Construction 4.2) Employment and productivity 4.3) Electric commerce 4.4) Privacy 4.5) Security 4.6) Ethics</p>

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Individual Project	1) Students are required to prepare a complete report on a given topic. - submission on week 8 2) Students are required to demonstrate their abilities in using project planning software. - submission on week 12	30%	CLO2
	Lab Exercise	Students will be assigned a task to demonstrate the ability to use softwares	30%	CLO2
	Presentation	Students will be given a group assignment on construction related topic and require to prepare a power point presentation and conduct a presentation.	30%	CLO3
	Test	Softwares skills (i.e.: microsoft office). Tests will be conducted on week 7 and week 13.	10%	CLO1

Reading List	Reference Book Resources	<ul style="list-style-type: none"> <li>• McLeod, R., Jr. 2004, <i>Management Information Systems</i>, Prentice Hall Upper Saddle River, NJ.</li> <li>• Williams, B., &amp; Sawyer 2001, <i>Using Information Technology: A Practical Introduction to Computers and Communications</i>, Irwin Chicago</li> <li>• Mott, J. 2000, <i>Information Communications Technology for Advanced Level</i>, Hodder and Stoughton London.</li> <li>• Greenlaw, R &amp; Hepp, E. 1999, <i>Introduction to the Internet for Engineers</i>, McGraw-Hill Boston.</li> </ul>
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	