



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 CLO3 Apply software appropriate to accomplish assigned tasks. CLO4 Present opportunities, challenges and issues in the field of ICT.
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<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	
<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	
<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.	
<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	

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Group Project	Power point presentation, report writing.	30%	CLO4
	Individual Project	n/a	40%	CLO3
	Lab Exercise	n/a	20%	CLO2
	Test	n/a	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	