

	<p>Ministry of Higher Education and Scientific Research - Iraq</p> <p>University of Warith Al_Anbiyaa College of Engineering Civil Engineering Department</p>	
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MODULE DESCRIPTOR FORM

Module Information			
Module Title	COMPUTER SCIENCE		Module Delivery
Module Type	BASIC		Theory lecture lab
Module Code	UoW022		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	1	Semester of Delivery	
Administering Department	Civil engineering	College	Engineering
Module Leader	Thaer Taher Atshan	e-mail	thaertahir@uowa.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	M.Sc.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Review Committee Approval	2024/9/26	Version Number	2024

Relation With Other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	<ol style="list-style-type: none"> 1. This course aims to define students everything related to the computer in terms of its physical parts or operational programs. 2. Study the Windows operating program, what are its parts, and how to deal with it. 3. Studying the most used application software on computers, which is the Office program with all its parts such as Word, Excel and PowerPoint. 4. Studying the BASIC language in writing programs and how to apply them in a way that suits the specialty of civil engineering. 5. Practical application of all that we study on the computer in a way that is appropriate for civil engineering.
Module Learning Outcomes	<ol style="list-style-type: none"> 1. Define Types of Computers, Computers Operations, Computer Hardware, System Units, Memory Speed, Types of Memory, Computer Software. 2. Define Numbering Systems, Decimal System, Binary system, Octal System, Hexadecimal System. 3. Define Windows 7 and Microsoft office2010 4. Programming in QBasic 5. Programming Control Statements and Loop in QBasic 6. Programming Matrices in QBasic
Indicative Contents	<p>Indicative content includes the following.</p> <p>Introduction to Computers, Types of Computers, Computers Operations, Computer Hardware, System Units, Memory Speed, Types of Memory, Computer Software [10 hrs].</p> <p>Numbering Systems, Decimal System, Binary system, Octal System, Hexadecimal System [6 hrs]</p> <p>Windows 7 (The Desktop, Task Bar, The start menu, The Search Box, Libraries, Control Panel.) [6 hrs]</p> <p>Microsoft office2010 (Microsoft word, Microsoft exel, Microsoft PowerPoint) [12 hrs]</p> <p>Programming in QBasic: Introduction, Starting QBASIC , Keys in Qbasic, QBASIC language Contents Constants and Variables In QBASIC [12 hrs]</p> <p>Arithmetic Expression and Library Functions, Flow Charts [7 hrs]</p> <p>Statements in QBASIC. [16 hrs]</p> <p>Control Statements and Loop [16 hrs]</p> <p>Matrices [10 hrs]</p>

Learning and Teaching Strategies

Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.
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Student Workload (SWL)

Structured SWL (h/sem)	48	Structured SWL (h/w)	6.5
Unstructured SWL (h/sem)	27	Unstructured SWL (h/w)	4
Total SWL (h/sem)	75		

Module Evaluation

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 3 and 6
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 5 and 6
	Projects / Lab. Report	1 -	10% (10) 0% (10)	Continuous -	All -
	Summative assessment	Midterm Exam	2 hr	20% (10)	7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		100%(100)

Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	Introduction to Computers (Types of Computers, Computers Operations, Computer Hardware), System Units, Memory Speed, Types of Memory, Computer Software and Numbering Systems.
Week 2	Windows 7
Week 3	Windows 7

Week 4	Microsoft office
Week 5	Microsoft office
Week 6	Microsoft office
Week 7	Programming in QBasic: Introduction, Starting QBASIC , Keys in Qbasic QBASIC language Contents Constants and Variables In QBASIC
Week 8	Arithmetic Expression and Library Functions, Flow Charts
Week 9	Statements in QBASIC)Rem Statement, Cls Statement, Const Statement, Let Statement, Read-Data Statement, Input statement, Print Statement, End Statement)
Week 10	Control Statements (GOTO Statement, ON...GOTO Statement, IF...THEN Statement, Compound IF ... then, Counter Instructions, The For and Next statements)
Week 11	Loops and Loops type
Week 12	Loops and Loops type
Week 13	Multiplication for Matrices& Algebraic Sum for Matrices
Week 14	Matrices' Variables
Week 15	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
Week 1	Lab 1: Application for Microsoft word2010
Week 2	Lab 2: Application for Microsoft exel2010
Week 3	Lab 3 Application for Microsoft PowerPoint 2010
Week 4	Lab 4: Application for writing in QBasic.
Week 5	Lab 5: Application for writing control statements in QBasic.
Week 6	Lab 6: Application for writing Loops in QBasic.
Week 7	Lab 7: Application for writing Matrices in QBasic.

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	<ul style="list-style-type: none"> البرمجة بلغة البيسك ل مهدي فاضل موسى 	Yes

Recommended Texts	<ul style="list-style-type: none"> • QBASIC Programming Without Stress by Akinola Adeniyi • A Manual for BASIC BY Trustees • Beginner's Programming Tutorial in QBasic by susan A.K. • Computer Programming in QBasic by Felix lyme • PROGRAMMING IN QBASIC by Lubna Zaghlul • Practical Computing with QBASIC by C. K. Ayo • نسخة معتمدة من اليونسكو ICDL الرخصة الدولية لقيادة الحاسب الآلي • اساسيات البرمجة بلغة البيسك ل ميخائيل رياض • برمجة الكويك بييسك ل أسامة الخ 	No.
Websites	-	

APPENDIX:**GRADING SCHEME**

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				