	Ministry of Higher Education and Scientific Research - Iraq University of Technology Computer Science Department Software Branch	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية				
Module Title	Fundamental of Computer Technology		**Module Delivery**	
Module Type	CORE		**Theory** **Lecture** **Tutorial**	
Module Code	FUCT115			
ECTS Credits	4			
SWL (hr/sem)	100			
Module Level	1	**Semester of Delivery**	1	
Administering Department	Type Dept. Code	**College**	Type College Code	
Module Leader	Dr.	**e-mail**	@uotechnology.edu.iq	
Module Leader's Acad. Title	Professor	**Module Leader's Qualification**	Ph.D.	
Module Tutor	None	**e-mail**	None	
Peer Reviewer Name		**e-mail**		
Review Committee Approval		**Version Number**		

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. This course deals with the basic concept of Computer Technology. 2. This is the basic subject for all Computer Technology subject.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Recognize Computer Technology. 2. List the various terms associated with Computer Technology. 3. Summarize what is meant by Computer Technology.
Indicative Contents المحتويات الإرشادية	1. Explain the main concept involved in Computer Technology. 2.Learn what are terms associated with Computer Technology.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
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.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	58	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	42	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	5, 10	LO #1, 2, and 3
	Assignments	2	10% (10)	2, 12	LO #1, 2, and 3
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO #1, 2, and 3
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO #1, 2, and 3
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Software - Software types - Software characteristics
Week 2	Programming language basics - Low level (assembly) language - High level language
Week 3	Understanding Applications - Desktop applications - Mobile applications
Week 4	Understanding the Cloud - What is the cloud - Why use the cloud - What is a web application
Week 5	Software Development programs - Editor - Translator - Linking loader - Debugger
Week 6	Database fundamentals
Week 7	Mid-term Exam + Unit-Step Forcing, Forced Response, the RLC Circuit
Week 8	Operating system basics
Week 9	Software Development process
Week 10	Software analysis

	- Flowchart
Week 11	Software Design - Data flow diagram (DFD) - Walkthrough
Week 12	Software Design - Data flow diagram (DFD) - Walkthrough
Week 13	Safety and Maintenance - Keeping Your Computer Clean - Protecting Your Computer - Creating a Safe Workspace
Week 14	Safety and Maintenance - Keeping Your Computer Clean - Protecting Your Computer - Creating a Safe Workspace
Week 15	**Preparatory Week**
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	- Foundations of Computer Technology, By Alexander John Anderson.	No

APPENDIX:

GRADING SCHEME مخطط الدرجات				
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.