



وزارة التعليم العالي والبحث العلمي  
جامعة الانبار  
كلية علوم الحاسوب وتكنولوجيا  
المعلومات



قسم نظم المعلومات  
دليل مسار بولونيا  
٢٠٢٣-٢٠٢٤

Module Description  
Form

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Structured programming I	<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISSP101	<b>ECTS Credits</b>	8
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Mahmoud Hilal	<b>e-mail</b>	mah2005hilal@uoanbar.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	1.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	Learn how to use the Advanced Tools helps programmers write fast, portable programs The main principles of programming and the development of programming languages Learn the principles of Structure programming
<b>Module Learning Outcomes</b>	A1- Knowledge and understanding A2. Learn algorithms A3. Learn flowcharts

	A4. Learn structured programming A5. Learn Python programming
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	5.4
<b>Unstructured workload (h/w)</b>	8
<b>Total workload (h/w)</b>	13.4

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the Library?</b>

<b>Required Texts</b>	"Starting Out with Python plus My Programming Lab with Pearson Text --Access Card Package (3rd Edition) Tony Gaddis ISBN-13: 978-0133862256"	Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
First	3 h.	Programming principles	Overview to Programming Language	Explain Menu, Getting Started with python	
Second	3 h.	Algorithms	Algorithms and Flow Charts	Algorithms and Flow Charts	
Third	3 h.	Introduction to Programming	Storing and Manipulating Values Calling Functions Comments Formatting Values Working with Strings Exercises	Storing and Manipulating Values Calling Functions Comments Formatting Values Working with Strings Exercises	Quiz
Fourth	3 h.	Unary Operators	Unary Minus Increment and /decrement Operators.	Program of Unary Minus Increment and /decrement Operators.	
Fifth	3 h.	Operational Operators	Operational Assignment Operators Relational Operators Logical Operators. Bitwise Operator Logical Operators. Bitwise Operator	Program Operational Assignment Operators Relational Operators Program Logical Operators. Bitwise Operator	
Sixth	3 h.	Selection Statements	Boolean Logic If Statements If-Else Statements	Programs in Lectures	Quiz
Seventh	3 h.	Selection Statements	If-Elif Statements If-Elif-Else Statements Nested If Statements	Programs in Lectures	

Ninth	3 h.	To evaluate the students	Monthly exam		By exam
Ninth	3 h.	Repetition	While Loops		By exam
Tenth	3 h.	Repetition	For Loops	Programs in Lectures	
Eleventh	3 h.	Repetition	Nested Loops Exercises	Programs in Lectures	
Twelfth	3 h.	Functions	Functions with Parameters Variables in Functions	Programs in Lectures	
Thirteenth	3 h.	Functions	Return Values	Programs in Lectures	
Fourteenth	3 h.	Functions	Importing Functions into Other Programs Exercises	Programs in Lectures	
Fifteenth	3 h.	To evaluate the students	Monthly exam		By exam

#### APPENDIX:

UNIVERSITY of Anbar				
GRADING SCHEME				
Group	ECTS Grade	% of Students/Marks	Definition	GPA
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Best 10%	Outstanding Performance	<b>5</b>
	<b>B</b> - Very Good	Next 25%	Above average with some errors	<b>4</b>
	<b>C</b> - Good	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D</b> - Satisfactory	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E</b> - Sufficient	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX</b> – Fail	(45-49)	More work required but credit awarded	
	<b>F</b> – Fail	(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.



Ministry of Higher Education and  
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Department of Information  
System.



## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Fundamental of Information Technology	<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISFI102	<b>ECTS Credits</b>	6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Mohanad Abdulsalam Younis gedan	<b>e-mail</b>	mohanad.abdul@uoanbar.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph. D
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<ul style="list-style-type: none"><li>- Provide a basic knowledge of computer hardware and software</li><li>- Introduce the business areas to which computers may be applied.</li><li>- Provide an introduction to business organization and information systems.</li><li>- Develop the skills in network &amp; communication, which play an important part in business computing and information processing.</li></ul>
<b>Module Learning</b>	A-Knowledge and Understanding

<b>Outcomes</b>	A1. The student should understand the architecture of any IT systems. A2. The student should understand the parts of hardware. A3. The student should understand the system software. A4. The student should understand the architecture of networks, protocols and communications devices.
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	3.4
<b>Unstructured workload (h/w)</b>	5.6
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction of Computers and Programming
Week 2	Brief history of computer
Week 3	Generation of Computers & Computer hierarchy
Week 4	Basic Computer Components
Week 5	Computer function (fetch cycle, interrupt cycle, I/O function)
Week 6	Semiconductor main memory (RAM, ROM, CACHE)
Week 7	<b>Mid-Term Exam</b>
Week 8	Computer Software (application software)
Week 9	External & Internal memory
Week 10	Telecommunications system & Network
Week 11	Topology of a network
Week 12	Layering model
Week 13	Protocols
Week 14	addressing communications



<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Logic Design I	<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISLD103	<b>ECTS Credits</b>	6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Muntaser Abdulwahed Salman Abdulaziz	<b>e-mail</b>	Co.montasser.salman@uoanbar.ed u.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<ul style="list-style-type: none"> <li>-The student should understand number systems and codes and the conversion between them.</li> <li>-The student should understand the Boolean expression and how to apply it.</li> <li>-The student should recognize among different logic gates and how to use them.</li> <li>-The student should understand how to design a logic circuit.</li> <li>-The student should understand using K-map for simplification.</li> </ul>

<b>Module Learning Outcomes</b>	<p>A-Knowledge and Understanding</p> <p>A1. The student should understand number systems and codes and the conversion between them.</p> <p>A2. The student should understand the Boolean expression and how to apply it.</p> <p>A3. The student should recognize among different logic gates and how to use them.</p> <p>A4. The student should understand how to design a logic circuit.</p> <p>A5. The student should understand using K-map for simplification</p>
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> <li>1. Power point presentation (Data show).</li> <li>2. Explanation on the white board using different color markers.</li> <li>3. Discussions with the student during teaching.</li> <li>4. Interaction with students through daily problems practice through lecture.</li> <li>5. Solve different problems with more exercises.</li> <li>6. Submit assignment that develop student learning.</li> </ol>

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	6.4
<b>Unstructured workload (h/w)</b>	3.6
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to number system
Week 2	Conversion between systems
Week 3	Codes and conversion between them
Week 4	Boolean expression
Week 5	Logic gates
Week 6	Logic gates design
Week 7	<b>Mid-Term Exam</b>
Week 8	NAND gates
Week 9	NOR gates
Week 10	Sum of product form
Week 11	Product Of sum form
Week 12	Product Of sum form
Week 13	K-map

<b>Week 14</b>	K-map
<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information					
<b>Module Title</b>	Mathematic I			<b>Module Type</b>	TYPE B
<b>Module Code</b>	CCIT060	<b>ECTS Credits</b>		6	
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>		One	
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT		
<b>Module Leader</b>	Muhammad Rabie		<b>e-mail</b>	mohammed.rabeea@uoanbar.edu.iq	
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>		PhD.	
<b>Module Tutor</b>		<b>e-mail</b>			
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/		
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0		

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	A - Understand the concept of mathematics, its methods and applications. B - Explain the concept of derivatives and integration and their applications. C - Understand the relationship between extracts and integration and the real problems and how to deal with them
<b>Module Learning Outcomes</b>	A-Knowledge and Understanding A 1. Acquiring the ability and skill to distinguish the bases of derivatives methods and dealing with them A 2. Acquire the capabilities and skills of applications of derivatives

	A3. Dealing with different methods of finite and indefinite derivatives B. Subject-specific skills B1. Summer Training B2. Fourth year projects B3. Scientific projects
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	3.3
<b>Unstructured workload (h/w)</b>	6.7
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	2	6% (6)	5 and 10	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	60% (60)	16	
<b>Total</b>		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	The Definition of the Derivative Interpretation of the Derivative
Week 2	Properties of Derivative , Some laws of derivatives
Week 3	Properties of Derivative , Some laws of derivatives
Week 4	<b>Derivatives of the six trig functions</b>
Week 5	<b>Exponential Functions, Logarithm Functions</b>
Week 6	<b>Inverse Sine, Inverse cosine, Inverse tangent, Alternate Notation</b>
Week 7	<b>Mid-Term Exam</b>
Week 8	<b>Inverse Sine, Inverse cosine, Inverse tangent, Alternate Notation</b>
Week 9	These are the six hyperbolic trig Functions .and They are defined as
Week 10	There are two forms of the chain rule
Week 11	Defined , formula, and used the chain rule
Week 12	first derivative, second derivative, third derivative.
Week 13	the properties of logarithms



<b>Week 14</b>	Introduction, Critical Points and Minimum and Maximum Values
<b>Week 15</b>	Preparatory Week
<b>Week 16</b>	Final Exam

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information				
<b>Module Title</b>	English (1)	<b>Module Type</b>	TYPE S	
<b>Module Code</b>	UOA003	<b>ECTS Credits</b>	2	
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One	
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT	
<b>Module Leader</b>	Akeel Abdulraheem Thulnoon Zoead	<b>e-mail</b>	akeelalhadithy@uoanbar.edu.iq	
<b>Module Leader's Acad. Title</b>	Assistant Professor	<b>Module Leader's Qualification</b>	PhD.	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/	
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0	

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	Enhancing English speaking, reading and writing Memorize a big number of vocabularies Helping students to deal with the English language in easier ways
<b>Module Learning Outcomes</b>	A1. Reading A2. writing A3. Speaking. A4. Listening B. Subject-specific skills

	B1. Learn scanning and skimming skills in reading B2. Right pronunciation B3. Vocabularies
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	2.34
<b>Unstructured workload (h/w)</b>	4.34
<b>Total workload (h/w)</b>	6.68

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	2	6% (6)	5 and 10	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	60% (60)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the</b>

		<b>Library?</b>
<b>Required Texts</b>		Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	Unit 1: Hello
<b>Week 2</b>	Unit 2: Your world
<b>Week 3</b>	Unit 3: All about you
<b>Week 4</b>	Unit 4: Family and friends
<b>Week 5</b>	Unit 5: The way I live
<b>Week 6</b>	Unit 6: Every Day
<b>Week 7</b>	<b>Mid-Term Exam</b>
<b>Week 8</b>	Unit 7: My favourites
<b>Week 9</b>	Unit 8: Where I live
<b>Week 10</b>	Unit 9: Times past
<b>Week 11</b>	Unit 10: we had a great time!
<b>Week 12</b>	English for Computer Science
<b>Week 13</b>	Listening
<b>Week 14</b>	Revision of most important topics in the subject
<b>Week 15</b>	<b>Preparatory Week</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	الحريات وحقوق الانسان		Module Delivery
Module Type	S		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOA005		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	1	Semester of Delivery	
Administering Department	IS	College	Type College Code
Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title		Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

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

<b>Module Objectives</b> أهداف المادة الدراسية	أ. تعليم الطلبة على أساسيات حقوق الإنسان وقوانينها. ب. التعرف على الحقوق وأهم الإشكاليات والتحديات التي تواجهها ج- تحديد وفهم المفاهيم المتعلقة بالحريات، بما في ذلك الحقوق الفردية والحريات الشخصية. د. تنمية القدرة على التفكير النقدي حول القضايا المتعلقة بالحريات والحقوق الفردية.
<b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية	1- أن يعرف الطالب مفهوم الحقوق وقوانينها وتطبيقاتها . 2- أن يعرف الطالب كيفية المشاركة في نشر الحقوق وتطبيقها بالعمل الواقعي الحقيقي. 3- القدرة على استخدام الحقوق وسيلة من أجل التعايش السلمي بين مكونات المجتمع وجميع المخلوقات . 4- القدرة على مشاركة الآخرين في نشر هذه الحقوق . 5- القدرة على تحليل وتعريف مفهوم الحرية والتمييز بين أنواع مختلفة من الحريات. 6- التفاعل مع قضايا الحريات على الصعيدين الوطني والدولي والتأثير في تشكيل الرأي العام.
<b>Indicative Contents</b> المحتويات الإرشادية	الحقوق والحريات الأساسية وغير الأساسية الحقوق والحريات المدنية الحقوق السياسية حقوق الانسان والقانون الدولي الإنساني

## Learning and Teaching Strategies

### استراتيجيات التعلم والتعليم

<b>Strategies</b>	1- المشاركة بالتحضير في قاعة الدرس 2- طريقة الأسئلة والأجوبة في قاعة الدرس 3- الواجبات 4- التقارير
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## Student Workload (SWL)

### الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطلاب خلال الفصل	33	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطلاب أسبوعيا	2
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطلاب خلال الفصل	17	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطلاب أسبوعيا	1
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطلاب خلال الفصل	50		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1		Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	تعريف الحقوق
Week 2	أنواع حقوق الانسان
Week 3	الحقوق الأساسية وغير الأساسية
Week 4	- الحقوق المدنية , الحقوق السياسية
Week 5	الحقوق الاقتصادية والاجتماعية والثقافية الحقوق الفردية والحقوق الجماعية
Week 6	طائفة الحقوق الجديدة حقوق الانسان والقانون الدولي الإنساني العلاقة بين حقوق الانسان والقانون الدولي الإنساني
Week 7	امتحان
Week 8	ماهو مفهوم الحريات :مصطلح الحرية والحريات العامة
Week 9	التطور في مفهوم الحريات العامة
Week 10	أشكال الحريات العامة وأنواعه
Week 11	النظام القانوني للحريات العامة
Week 12	تنظيم الحريات العامة من قبل السلطات العامة



Week 13	ضمانات الحريات العامة
Week 14	الحريات في الفكر السياسي الحديث
Week 15	الامتحان النهائي

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Diamond L. & M. F. Plattner, eds., (2009), Democracy. A Reader, Baltimore, Johns Hopkins University Press.	yes
Recommended Texts	مفهوم الحريات العامة وحقوق الانسان ، إطارها التاريخي والفكري والفلسفي، وضماناتها الأساسية- 2010	
Websites	<a href="http://ghrorg-learning.blogspot.com">http://ghrorg-learning.blogspot.com</a>	

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	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

**Note:** Marks 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.

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information				
<b>Module Title</b>	Structured programming II		<b>Module Type</b>	TYPE B
<b>Module Code</b>	CSIT108	<b>ECTS Credits</b>	8	
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	Two	
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT	
<b>Module Leader</b>	Akeel Abdulraheem Thulnoon Zoead	<b>e-mail</b>	akeelalhadithy@uoanbar.edu.iq	
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/	
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0	

Relation With Other Modules	
<b>Pre-requisites</b>	CSIT107
<b>Co-requisites</b>	
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	Learn how to use the Advanced Tools helps programmers write fast, portable programs The main principles of programming and the development of programming languages Learn the principles of Structure programming

<b>Module Learning Outcomes</b>	A- Knowledge and Understanding A1. Learn the algorithms A2. Learn the Flowchart A3. Learn C++ Programming
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	5.34
<b>Unstructured workload (h/w)</b>	8
<b>Total workload (h/w)</b>	13.34

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>
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	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	Passing Parameters. Passing by Value. Passing by Reference.
<b>Week 2</b>	Pointers
<b>Week 3</b>	Arrays. Array of One Dimension: Declaration of Arrays.
<b>Week 4</b>	Elements
<b>Week 5</b>	Initializing Array
<b>Week 6</b>	Accessing Array Elements.
<b>Week 7</b>	<b>Mid-Term Exam</b>
<b>Week 8</b>	Read / Write / Process Array Elements.
<b>Week 9</b>	Array of Two Dimension: Declaration of 2D-Arrays.
<b>Week 10</b>	Read / Write / Process Array Elements.
<b>Week 11</b>	Member Function of String stdlib Library.
<b>Week 12</b>	Structures. The Three Ways for Declare the Structure.
<b>Week 13</b>	Array of Structures.
<b>Week 14</b>	The Files

<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	DISCRETE STRUCTURE	<b>Module Type</b>	TYPE B
<b>Module Code</b>	CSIT112	<b>ECTS Credits</b>	6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	First
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Mohanad Abdulsalam younis gedan	<b>e-mail</b>	mohanad.abdul@uoanbar.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph. D
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	1-To convey the basic concepts of data structures 2-To understand basic concepts about stacking, queues, lists, trees, and graphs 3-It helps the student to know how to deal with data and how to choose the appropriate graphic structure for it 4-Data structure helps the student to understand the nature of the problem at a deeper level and thus better understanding the world for solving programming problems

<b>Module Learning Outcomes</b>	<p>A- Knowledge and Understanding</p> <p>A1- Know the concept of data structures and how to apply them</p> <p>A2- Understand how to use data structures to know the data to be organized in program memory</p> <p>A3- Understand and know the use of data structures in different real applications</p> <p>A4- Understand and know the methods of different data structures</p> <p>B. Subject-specific skills</p> <p>1. Providing the student with the skill of applying various data</p> <p>2- Providing the student with the skill of structuring programs</p> <p>3- Providing the student with the skill of planning any problem and solving it programmatically</p> <p>4- Providing the student with the skill of dealing with any type of data</p>
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> <li>1. Power point presentation (Data show).</li> <li>2. Explanation on the white board using different color markers.</li> <li>3. Discussions with the student during teaching.</li> <li>4. Interaction with students through daily problems practice through lecture.</li> <li>5. Solve different problems with more exercises.</li> <li>6. Submit assignment that develop student learning.</li> </ol>

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	3.4
<b>Unstructured workload (h/w)</b>	6.6
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	2	6% (6)	5 and 10	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	60% (60)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>
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	Text	Available in the Library?
<b>Required Texts</b>		Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

### Delivery Plan (Weekly Syllabus)

	Material Covered
<b>Week 1</b>	Introduction
<b>Week 2</b>	General concept
<b>Week 3</b>	Array Data structure
<b>Week 4</b>	Stack data structure
<b>Week 5</b>	Expression Parsing
<b>Week 6</b>	Solving homework
<b>Week 7</b>	<b>Mid-Term Exam</b>
<b>Week 8</b>	Queue data structure
<b>Week 9</b>	circular Queue data structure
<b>Week 10</b>	Pointer & Structure
<b>Week 11</b>	linked list data structure
<b>Week 12</b>	linked list operations
<b>Week 13</b>	Doubly linked list data structure
<b>Week 14</b>	Doubly linked list operations



<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Logic Design II	<b>Module Type</b>	TYPE B
<b>Module Code</b>	CSIT111	<b>ECTS Credits</b>	6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	Two
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Muntaser AbdulWahed Salman Abdulaziz	<b>e-mail</b>	co.montasser.salman@uoanbar.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	CSIT109
<b>Co-requisites</b>	
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<ul style="list-style-type: none"> <li>The student should understand encoder, decoder and multiplexers</li> <li>The student should understand synchronous logic circuit</li> <li>The student should understand flip-flops and how to use them</li> <li>The student should understand registers and their types</li> <li>The student should understand counters and their types</li> <li>The student should understand ROM and PLA implementation</li> </ul>
<b>Module Learning Outcomes</b>	A1. The student should understand encoder, decoder and multiplexers A2. The student should understand flip-flops and how to use them.

	A3. The student should understand registers and their types. A4. The student should understand counters and their types. A5. The student should understand ROM and PLA implementation.
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	4.4
<b>Unstructured workload (h/w)</b>	5.6
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>
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	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

### Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	Synchronous logic gates
Week 2	Adder and subtractor circuits
Week 3	Comparator circuits
Week 4	Encoders and multiplexers
Week 5	Multiplexers
Week 6	First month exam
Week 7	<b>Mid-Term Exam</b>
Week 8	Flip-flops
Week 9	SR flip flop and j k flip flop
Week 10	T flip flop and D flip flop
Week 11	Second month exam
Week 12	Registers design
Week 13	Counters design
Week 14	ROM PLA State plan

<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Mathematic II	<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISDC116	<b>ECTS Credits</b>	6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Mohammed Rabeea Al-Dahhan	<b>e-mail</b>	mohammed.rabeea@uoanbar.edu.i q
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	ISDC115
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<p>In a computer science department, the specific aims of a Mathematics II module can vary depending on the curriculum and the intended learning outcomes. However, here are some common aims of a Mathematics II module in a computer science department:</p> <p>Advanced Algebra and Calculus: The module aims to provide a deeper understanding of advanced algebraic concepts such as matrices, vectors, and complex numbers. It also covers calculus topics including limits, derivatives, and integrals.</p>

	<p>Discrete Mathematics: Discrete mathematics is essential in computer science as it provides the foundation for many algorithms, data structures, and problem-solving techniques. The module aims to introduce topics like logic, set theory, combinatorics, graph theory, and formal languages.</p> <p>Probability and Statistics: Probability theory and statistics play a crucial role in various aspects of computer science, such as machine learning, data analysis, and algorithm design. The module aims to cover probability concepts, random variables, statistical distributions, hypothesis testing, and basic statistical analysis.</p>
<p><b>Module Learning Outcomes</b></p>	<p>Understanding Advanced Algebra and Calculus: Students should demonstrate a solid understanding of advanced algebraic concepts, such as matrices, vectors, and complex numbers. They should be able to apply calculus techniques, such as limits, derivatives, and integrals, in the context of computer science problems.</p> <p>Applying Discrete Mathematics: Students should be able to apply discrete mathematics concepts and techniques to solve problems in computer science. This includes understanding and using logic, set theory, combinatorics, graph theory, and formal languages in algorithm design and analysis.</p> <p>Analyzing Probability and Statistics: Students should be able to analyze and interpret probabilistic and statistical data relevant to computer science problems. They should understand concepts such as probability distributions, random variables, hypothesis testing, and basic statistical analysis.</p> <p>Using Numerical Methods: Students should be proficient in using numerical methods to solve computational problems encountered in computer science. This includes employing numerical approximation techniques, solving equations numerically, and performing numerical integration.</p>
<p><b>Indicative Contents</b></p>	
<p><b>Learning and Teaching Strategies</b></p>	
<p><b>Strategies</b></p>	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> <li>1. Power point presentation (Data show).</li> <li>2. Explanation on the white board using different color markers.</li> <li>3. Discussions with the student during teaching.</li> <li>4. Interaction with students through daily problems practice through lecture.</li> <li>5. Solve different problems with more exercises.</li> <li>6. Submit assignment that develop student learning.</li> </ol>

Module Delivery	
Structured workload (h/w)	3.3
Unstructured workload (h/w)	6.7
Total workload (h/w)	10

Module Evaluation				
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Quizzes	2	6% (6)	5 and 10	
Assignments	2	6% (6)	2 and 12	
Projects / Lab.	1	5% (5)	Continuous	
Report	1	5% (5)	13	
Midterm Exam	2 hr	18% (18)	7	
Final Exam	3 hr	60% (60)	16	
Total		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Topic: Integral Calculus - Techniques of Integration Integration by substitution Integration by parts Trigonometric substitutions



<b>Week 2</b>	<p>Topic: Integral Calculus - Techniques of Integration</p> <p>Integration by substitution</p> <p>Integration by parts</p> <p>Trigonometric substitutions</p>
<b>Week 3</b>	<p>Topic: Integral Calculus - Techniques of Integration</p> <p>Integration by substitution</p> <p>Integration by parts</p> <p>Trigonometric substitutions</p>
<b>Week 4</b>	<p>Topic: Integral Calculus - Advanced Integration Techniques</p> <p>Partial fraction decomposition</p> <p>Integration using trigonometric identities</p> <p>Integration of rational functions</p>
<b>Week 5</b>	<p>Topic: Integral Calculus - Advanced Integration Techniques</p> <p>Partial fraction decomposition</p> <p>Integration using trigonometric identities</p> <p>Integration of rational functions</p>
<b>Week 6</b>	<p>Topic: Integral Calculus - Advanced Integration Techniques</p> <p>Partial fraction decomposition</p> <p>Integration using trigonometric identities</p> <p>Integration of rational functions</p>
<b>Week 7</b>	Mid-Term Exam
<b>Week 8</b>	<p>Topic: Integral Calculus - Advanced Integration Techniques</p> <p>Partial fraction decomposition</p> <p>Integration using trigonometric identities</p> <p>Integration of rational functions</p>
<b>Week 9</b>	<p>Topic: Integral Calculus - Advanced Integration Techniques</p> <p>Partial fraction decomposition</p> <p>Integration using trigonometric identities</p> <p>Integration of rational functions</p>
<b>Week 10</b>	<p>Topic: Integral Calculus - Advanced Integration Techniques</p> <p>Partial fraction decomposition</p> <p>Integration using trigonometric identities</p> <p>Integration of rational functions</p>

<b>Week 11</b>	Topic: Integral Calculus - Advanced Integration Techniques Partial fraction decomposition Integration using trigonometric identities Integration of rational functions
<b>Week 12</b>	Topic: Integral Calculus - Advanced Integration Techniques Partial fraction decomposition Integration using trigonometric identities Integration of rational functions
<b>Week 13</b>	Topic: Integral Calculus - Advanced Integration Techniques Partial fraction decomposition Integration using trigonometric identities Integration of rational functions
<b>Week 14</b>	Topic: Review and Practice Comprehensive review of topics covered Problem-solving exercises and practice problems Preparation for the final assessment
<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

#### APPENDIX:

UNIVERSITY of Anbar				
GRADING SCHEME				
Group	ECTS Grade	% of Students/Marks	Definition	GPA
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Best 10%	Outstanding Performance	<b>5</b>
	<b>B</b> - Very Good	Next 25%	Above average with some errors	<b>4</b>
	<b>C</b> - Good	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D</b> - Satisfactory	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E</b> - Sufficient	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX</b> – Fail	(45-49)	More work required but credit awarded	
	<b>F</b> – Fail	(0-44)	Considerable amount of work required	
<b>Note:</b>				

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.

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Arabic Language	<b>Module Type</b>	TYPE B
<b>Module Code</b>	UOA137	<b>ECTS Credits</b>	4
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	Two
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Saad Ibrahim Ahmed Hussein	<b>e-mail</b>	Saad.ibrahim@uonbar.edu.iq
<b>Module Leader's Acad. Title</b>	Assistant Professor	<b>Module Leader's Qualification</b>	Ph. D
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	تعليم الطلبة على أساسيات اللغة العربية وقواعدها تعليم الطلبة على كيفية الأعراب
<b>Module Learning Outcomes</b>	أن يتعرف الطالب على قواعد اللغة العربية أن يعرف الطالب كيفية بناء الجمل واستخراجها للعنوان المطلوب
<b>Indicative Contents</b>	

<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> <li>1. Power point presentation (Data show).</li> <li>2. Explanation on the white board using different color markers.</li> <li>3. Discussions with the student during teaching.</li> <li>4. Interaction with students through daily problems practice through lecture.</li> <li>5. Solve different problems with more exercises.</li> <li>6. Submit assignment that develop student learning.</li> </ol>

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	2.3
<b>Unstructured workload (h/w)</b>	4.3
<b>Total workload (h/w)</b>	6.6

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	2	6% (6)	5 and 10	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	60% (60)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the Library?</b>
<b>Required Texts</b>		Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

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### Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	العدد تنكيره وتأنيثه
Week 2	الأعداد المفردة والمركبة
Week 3	ألفاظ العقود و الأعداد (مئة ، ألف ، مليون)
Week 4	تعريف العدد وتنكيره
Week 5	ما يصاغ من العدد على وزن فاعل
Week 6	كتابة الهمزة المتوسطة والمتطرفة
Week 7	Mid-Term Exam
Week 8	كتابة الألف اللينة
Week 9	كتابة التاء المربوطة والمبسوطة
Week 10	كتابة الضاد والظاء
Week 11	اللامات وأنواعها
Week 12	الهاءات وأنواعها
Week 13	النونات وأنواعها
Week 14	استعمالات (ما ، من) والفرق بين (أما ، إما)
Week 15	Preparatory Week
Week 16	Final Exam

#### APPENDIX:

UNIVERSITY of Anbar
GRADING SCHEME

<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.



# University of Anbar Diploma Supplement

Anbar, Ramadi, Iraq

Phone No.:

e-mail: [Contact@uoanbar.edu.iq](mailto:Contact@uoanbar.edu.iq)

URL: <https://www.uoanbar.edu.iq/>



This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all sections should be provided. Where information is not provided, an explanation should give the reason why.

## 1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1 First Name:
- 1.2 Second Name:
- 1.3 Third Name:
- 1.4 Date of Birth:
- 1.5 Place of Birth:
- 1.6 Student Identification Number:
- 1.7 National ID number:

## 2. INFORMATION IDENTIFYING THE QUALIFICATION

- 2.1 Name of the Qualification:
- 2.2 Main Field of the Study of the Qualification:
- 2.3 Name and Status of the Awarding Institution:
- 2.4 Language of Instruction/ Examination:

## 3. INFORMATION ON THE LEVEL OF QUALIFICATION

- 3.1 Level of Qualification  
**First Cycle (Bachelor's Degree)**
- 3.2 Official Length of the Programme  
**4 years – 8 Semesters**
- 3.3 Access Requirements  
**High School Diploma – Placement through the National Central Admission Requirements**



#### 4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

##### 4.1 Study System:

**Bologna process**

##### 4.2 Mode of Study

**First Cycle (Bachelor's Degree)**

##### 4.3 Program Requirements

**A Student is required to have a minimum CGPA of 50% and no falling grades**

##### 4.4 Minimum Credits for Semester, Year and Graduation (ECTS)

**30 ECTS/Semester | 60 ECTS/Year | 240 ECTS/Programme | 1 ECTS = 25 hrs**

##### 4.5 Student Learning Outcomes

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

#### 4.6 Programme Details and the Individual Grade/Marks Obtained

Module Code	Module Name	Type	Mark Grade	ECTS	
<b>Semester 1</b>					
CSDC110	Computer Technology	Core		6	
CSDC111	Programming in C++ I	Core		8	
CSDC112	Logic Design I	Core		6	
CCIT060	Mathematics	Basic		6	
UOA003	English Language I	Support		2	
UOA005	Democracy and Human Rights	Support		2	
Grade Point Average (GPA) = ( - )				Total ECTS	30
<b>Semester 2</b>					
CSDC120	Microprocessors	Core		6	
CCIT061	Discrete Structures	Basic		6	
CSDC121	Programming in C++ II	Core		8	
CSDC122	Logic Design II	Core		6	
UOA001	Arabic Language I	Support		2	
CSDC123	Communication Skills	Core		2	
Grade point Average (GPA) = ( - )				Total ECTS	30
<b>Semester 3</b>					
CSDC210	Database	Core		7	
CSDC211	Object Oriented Programming	Core		8	
CSDC212	Data Structures	Core		7	
CSDC213	Advanced Mathematics	Core		4	
UOA006	The crimes of the defunct Ba'ath party	Support		2	
UOA002	Arabic Language II	Support		2	
Grade Point Average (GPA) = ( - )				Total ECTS	30
<b>Semester 4</b>					
CSDC220	Computational Theory	Core		5	
CSDC221	python	Core		7	
CSDC222	Algorithms	Core		6	
CCIT062	Numerical Analysis	Basic		4	
CCIT063	Computer Networks	Support		6	
UOA004	English Language 2	Support		2	
GPA = ( - )				Total ECTS	30
<b>Semester 5</b>					
CSDC310	Visual Programming	Core		6	
CSDC311	Computer Graphics	Core		6	
CSDC312	Computer Architecture	Core		6	
CSDC321	Wireless Networks	Core		6	
CSDC323	Mobile Applications Programming	Core		6	
Grade Point average (GPA) = ( - )				Total ECTS	30

**Semester 6**

CSDC320	Multimedia	Core	7
CSDE223	Internet of Things	Elective	6
CSDC322	Compilers	Core	7
CSDC313	Software Engineering	Core	6
UOA019	Research methodology	Basic	4

Grade Point Average (GPA) = ( - ) Total ECTS 30

**Semester 7**

CSDC410	Operating Systems I	Core	6
CSDC411	Computer Security 1	Core	6
CSDC412	Artificial Intelligence	Core	6
CSDC413	Digital Image Processing	Core	6
CSDE414	Game Programming	Elective	6

Grade Point Average (GPA) = ( - ) Total ECTS 30

**Semester 8**

CSDC420	Operating Systems II	Core	95	A	5
CSDC421	Computer Security II	Core	87	B	5
CSDC422	Machine Learning	Core	76	C	6
CSDC423	Web Development	Core	65	D	6
UOA020	Project	Basic	65	D	8

Grade Point Average (GPA) = ( - ) Total ECTS 30

**Cumulative Grade Point Average (CGPA) = Programme total ECTS 240**

## 4.7 Grading Scheme and Grade Distribution Guidance

Group	Grade	Marks	Definitions
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	F - Fail	00 - 49	Considerable amount of work required

Marks with 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.

4.8 Overall Classification of the Qualification  
**Cumulative Grade Point Average (CGPA) =**  
**Final Grade of Degree relative RANK: 4 of 23**

**5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION**

5.1 Access to Further Study  
**May apply to second cycle programs**

5.2 Professional Status Conferred  
**The degree enables the graduate to exercise the profession**

**6. ADDITIONAL INFORMATION**

6.1 Additional Information  
**University of Anbar, College of Computer Science and Information Technology,  
Department of Computer Science**

6.2 Further Information Sources  
**University Website <https://uoanbar.edu.iq/>**  
**Registration Office e-mail [xxxxx@ uoanbar.edu.iq](mailto:xxxxx@uoanbar.edu.iq)**

**7. CERTIFICATION OF THE SUPPLEMENT**

7.1 Date **01.10. 2027**

7.2 Name **Full Name**

7.3 Capacity **University General Registrar**

7.4 Signature

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7.5 Official Stamp and Seal

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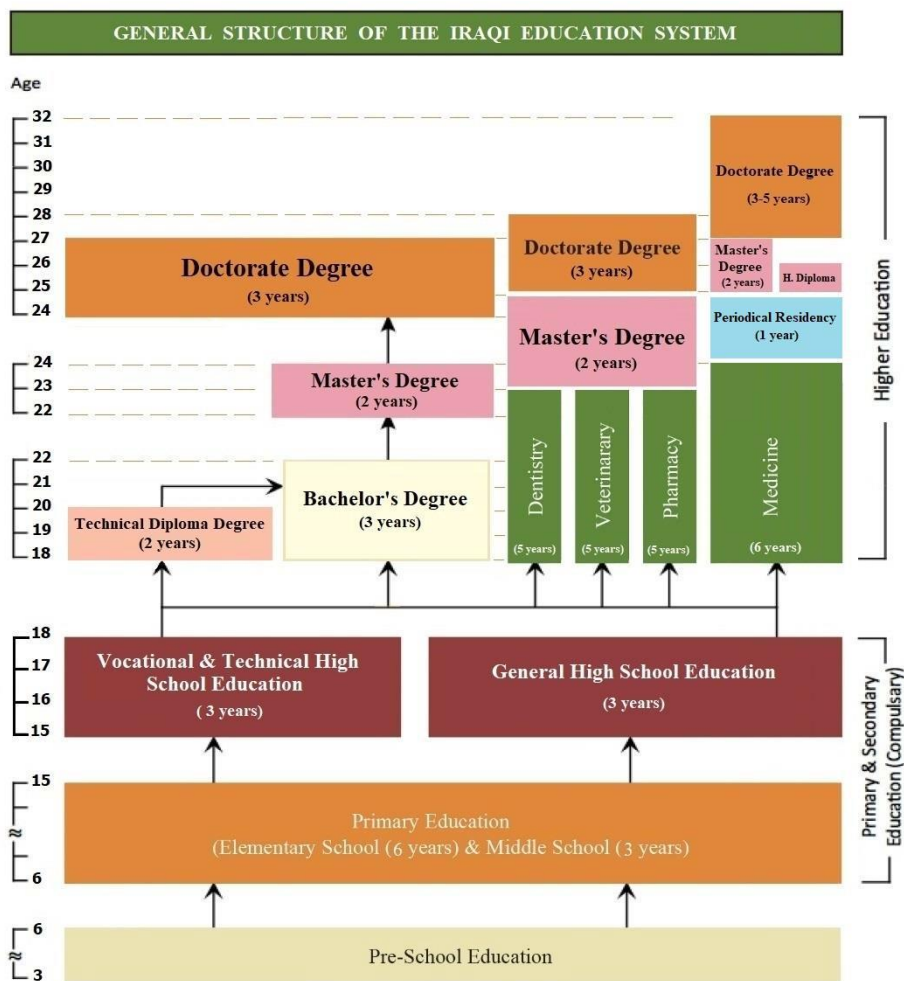
## Structure and Degree System

The basic structure of the Iraqi National Education System consists of stages of noncompulsory pre-school education; Compulsory primary (elementary and middle school) and secondary (high school) education; and higher education. Primary education begins at the age of 6 years (72 months), lasts nine years and comprises six years of elementary and three years of middle school education. Secondary education is three years and divided into two categories as “General High School Education” and “Vocational and Technical High School Education”. The entry into these categories is through composite scores obtained from centralized exam of secondary schools.

Higher Education System is managed by the Ministry of Higher Education and Scientific Research which is responsible for the planning, coordination, governance and supervision of higher education within the provisions set forth in the Constitution of the Republic of Iraq and Higher Education Law. Both state and private universities are founded by law and subjected to the higher education law and to the regulations enacted in accordance with it.

Higher Education in Iraq comprises all post-secondary higher education programs, consisting of short, first, second and third cycle degrees in terms of the terminology of the Bologna Process. Except for the Architectural Engineering, Pharmacy, Dentistry and Veterinary programs, which are five years (300 ECTS), and Medicine Programme which is six years (360 ECTS), the duration of the first cycle (Bachelor degree) is a full-time four years (240 ECTS) study. The duration of the short cycle (Technical Diploma) is a full-time two years (120 ECTS) study.

Graduate level of Study consists of second cycle (master) and third cycle (doctorate) degree programs. The second cycle is a master with thesis with duration of two years (120 ECTS). Third cycle (doctorate) degree programs are completed having earned a minimum of 180 ECTS credits., which consists of completion of courses, passing a proficiency examination and doctoral thesis.



	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information				
<b>Module Title</b>	Structured programming I		<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISSP101	<b>ECTS Credits</b>	8	
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One	
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT	
<b>Module Leader</b>	Mahmoud Hilal	<b>e-mail</b>	mah2005hilal@uoanbar.edu.iq	
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/	
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	1.0	

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	Learn how to use the Advanced Tools helps programmers write fast, portable programs The main principles of programming and the development of programming languages Learn the principles of Structure programming
<b>Module Learning Outcomes</b>	A1- Knowledge and understanding A2. Learn algorithms A3. Learn flowcharts

	A4. Learn structured programming A5. Learn Python programming
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	5.4
<b>Unstructured workload (h/w)</b>	8
<b>Total workload (h/w)</b>	13.4

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the Library?</b>

<b>Required Texts</b>	"Starting Out with Python plus My Programming Lab with Pearson Text --Access Card Package (3rd Edition) Tony Gaddis ISBN-13: 978-0133862256"	Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
First	3 h.	Programming principles	Overview to Programming Language	Explain Menu, Getting Started with python	
Second	3 h.	Algorithms	Algorithms and Flow Charts	Algorithms and Flow Charts	
Third	3 h.	Introduction to Programming	Storing and Manipulating Values Calling Functions Comments Formatting Values Working with Strings Exercises	Storing and Manipulating Values Calling Functions Comments Formatting Values Working with Strings Exercises	Quiz
Fourth	3 h.	Unary Operators	Unary Minus Increment and /decrement Operators.	Program of Unary Minus Increment and /decrement Operators.	
Fifth	3 h.	Operational Operators	Operational Assignment Operators Relational Operators Logical Operators. Bitwise Operator Logical Operators. Bitwise Operator	Program Operational Assignment Operators Relational Operators Program Logical Operators. Bitwise Operator	
Sixth	3 h.	Selection Statements	Boolean Logic If Statements If-Else Statements	Programs in Lectures	Quiz
Seventh	3 h.	Selection Statements	If-Elif Statements If-Elif-Else Statements Nested If Statements	Programs in Lectures	



Ninth	3 h.	To evaluate the students	Monthly exam		By exam
Ninth	3 h.	Repetition	While Loops		By exam
Tenth	3 h.	Repetition	For Loops	Programs in Lectures	
Eleventh	3 h.	Repetition	Nested Loops Exercises	Programs in Lectures	
Twelfth	3 h.	Functions	Functions with Parameters Variables in Functions	Programs in Lectures	
Thirteenth	3 h.	Functions	Return Values	Programs in Lectures	
Fourteenth	3 h.	Functions	Importing Functions into Other Programs Exercises	Programs in Lectures	
Fifteenth	3 h.	To evaluate the students	Monthly exam		By exam

#### APPENDIX:

UNIVERSITY of Anbar				
GRADING SCHEME				
Group	ECTS Grade	% of Students/Marks	Definition	GPA
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Best 10%	Outstanding Performance	<b>5</b>
	<b>B</b> - Very Good	Next 25%	Above average with some errors	<b>4</b>
	<b>C</b> - Good	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D</b> - Satisfactory	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E</b> - Sufficient	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX</b> – Fail	(45-49)	More work required but credit awarded	
	<b>F</b> – Fail	(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.



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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Fundamental of Information Technology	<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISFI102	<b>ECTS Credits</b>	6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Mohanad Abdulsalam Younis gedan	<b>e-mail</b>	mohanad.abdul@uoanbar.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	Ph. D
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<ul style="list-style-type: none"><li>- Provide a basic knowledge of computer hardware and software</li><li>- Introduce the business areas to which computers may be applied.</li><li>- Provide an introduction to business organization and information systems.</li><li>- Develop the skills in network &amp; communication, which play an important part in business computing and information processing.</li></ul>
<b>Module Learning</b>	A-Knowledge and Understanding

<b>Outcomes</b>	A1. The student should understand the architecture of any IT systems. A2. The student should understand the parts of hardware. A3. The student should understand the system software. A4. The student should understand the architecture of networks, protocols and communications devices.
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	3.4
<b>Unstructured workload (h/w)</b>	5.6
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the Library?</b>
<b>Required Texts</b>		Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	Introduction of Computers and Programming
<b>Week 2</b>	Brief history of computer
<b>Week 3</b>	Generation of Computers & Computer hierarchy
<b>Week 4</b>	Basic Computer Components
<b>Week 5</b>	Computer function (fetch cycle, interrupt cycle, I/O function)
<b>Week 6</b>	Semiconductor main memory (RAM, ROM, CACHE)
<b>Week 7</b>	<b>Mid-Term Exam</b>
<b>Week 8</b>	Computer Software (application software)
<b>Week 9</b>	External & Internal memory
<b>Week 10</b>	Telecommunications system & Network
<b>Week 11</b>	Topology of a network
<b>Week 12</b>	Layering model
<b>Week 13</b>	Protocols
<b>Week 14</b>	addressing communications

<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Logic Design I	<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISLD103	<b>ECTS Credits</b>	6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Muntaser Abdulwahed Salman Abdulaziz	<b>e-mail</b>	Co.montasser.salman@uoanbar.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<ul style="list-style-type: none"> <li>-The student should understand number systems and codes and the conversion between them.</li> <li>-The student should understand the Boolean expression and how to apply it.</li> <li>-The student should recognize among different logic gates and how to use them.</li> <li>-The student should understand how to design a logic circuit.</li> <li>-The student should understand using K-map for simplification.</li> </ul>
<b>Module Learning</b>	A-Knowledge and Understanding

<b>Outcomes</b>	<p>A1. The student should understand number systems and codes and the conversion between them.</p> <p>A2. The student should understand the Boolean expression and how to apply it.</p> <p>A3. The student should recognize among different logic gates and how to use them.</p> <p>A4. The student should understand how to design a logic circuit.</p> <p>A5. The student should understand using K-map for simplification</p>
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> <li>1. Power point presentation (Data show).</li> <li>2. Explanation on the white board using different color markers.</li> <li>3. Discussions with the student during teaching.</li> <li>4. Interaction with students through daily problems practice through lecture.</li> <li>5. Solve different problems with more exercises.</li> <li>6. Submit assignment that develop student learning.</li> </ol>

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	6.4
<b>Unstructured workload (h/w)</b>	3.6
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	۲	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	1۰% (1۰)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to number system
Week 2	Conversion between systems
Week 3	Codes and conversion between them
Week 4	Boolean expression
Week 5	Logic gates
Week 6	Logic gates design
Week 7	<b>Mid-Term Exam</b>
Week 8	NAND gates
Week 9	NOR gates
Week 10	Sum of product form
Week 11	Product Of sum form
Week 12	Product Of sum form
Week 13	K-map
Week 14	K-map



<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(0-44)	Considerable amount of work required	
<b>Note:</b>				

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.

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information					
<b>Module Title</b>	<b>Mathematic I</b>			<b>Module Type</b>	TYPE B
<b>Module Code</b>	<b>CCIT060</b>	<b>ECTS Credits</b>		6	
<b>Module Level</b>	<b>UGI</b>	<b>Semester of Delivery</b>		One	
<b>Administering Department</b>	<b>IS</b>	<b>Faculty</b>	CSIT		
<b>Module Leader</b>	<b>Muhammad Rabie</b>		<b>e-mail</b>	<b>mohammed.rabeea@uoanbar.edu.iq</b>	
<b>Module Leader's Acad. Title</b>	<b>Lecturer</b>	<b>Module Leader's Qualification</b>		PhD.	
<b>Module Tutor</b>			<b>e-mail</b>		
<b>Peer Reviewer Name</b>	/		<b>e-mail</b>	/	
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0		

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	A - Understand the concept of mathematics, its methods and applications. B - Explain the concept of derivatives and integration and their applications. C - Understand the relationship between extracts and integration and the real problems and how to deal with them
<b>Module Learning Outcomes</b>	A-Knowledge and Understanding A 1. Acquiring the ability and skill to distinguish the bases of derivatives methods and dealing with them A 2. Acquire the capabilities and skills of applications of derivatives

	A3. Dealing with different methods of finite and indefinite derivatives B. Subject-specific skills B1. Summer Training B2. Fourth year projects B3. Scientific projects
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	3.3
<b>Unstructured workload (h/w)</b>	6.7
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	2	6% (6)	5 and 10	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	60% (60)	16	
<b>Total</b>		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	The Definition of the Derivative Interpretation of the Derivative
Week 2	Properties of Derivative , Some laws of derivatives
Week 3	Properties of Derivative , Some laws of derivatives
Week 4	<b>Derivatives of the six trig functions</b>
Week 5	<b>Exponential Functions, Logarithm Functions</b>
Week 6	<b>Inverse Sine, Inverse cosine, Inverse tangent, Alternate Notation</b>
Week 7	<b>Mid-Term Exam</b>
Week 8	<b>Inverse Sine, Inverse cosine, Inverse tangent, Alternate Notation</b>
Week 9	These are the six hyperbolic trig Functions .and They are defined as
Week 10	There are two forms of the chain rule
Week 11	Defined , formula, and used the chain rule
Week 12	first derivative, second derivative, third derivative.
Week 13	the properties of logarithms

<b>Week 14</b>	Introduction, Critical Points and Minimum and Maximum Values
<b>Week 15</b>	Preparatory Week
<b>Week 16</b>	Final Exam

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 – 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(0-44)	Considerable amount of work required	

**Note:**

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	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information				
<b>Module Title</b>	English (1)		<b>Module Type</b>	TYPE S
<b>Module Code</b>	UOA003	<b>ECTS Credits</b>	2	
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	One	
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT	
<b>Module Leader</b>	Akeel Abdulraheem Thulnoon Zoead	<b>e-mail</b>	akeelalhadithy@uoanbar.edu.iq	
<b>Module Leader's Acad. Title</b>	Assistant Professor	<b>Module Leader's Qualification</b>	PhD.	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/	
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0	

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	Enhancing English speaking, reading and writing Memorize a big number of vocabularies Helping students to deal with the English language in easier ways
<b>Module Learning Outcomes</b>	A1. Reading A2. writing A3. Speaking. A4. Listening B. Subject-specific skills

	B1. Learn scanning and skimming skills in reading B2. Right pronunciation B3. Vocabularies
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	2.34
<b>Unstructured workload (h/w)</b>	4.34
<b>Total workload (h/w)</b>	6.68

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	2	6% (6)	5 and 10	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	60% (60)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the</b>

		<b>Library?</b>
<b>Required Texts</b>		Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	Unit 1: Hello
<b>Week 2</b>	Unit 2: Your world
<b>Week 3</b>	Unit 3: All about you
<b>Week 4</b>	Unit 4: Family and friends
<b>Week 5</b>	Unit 5: The way I live
<b>Week 6</b>	Unit 6: Every Day
<b>Week 7</b>	<b>Mid-Term Exam</b>
<b>Week 8</b>	Unit 7: My favourites
<b>Week 9</b>	Unit 8: Where I live
<b>Week 10</b>	Unit 9: Times past
<b>Week 11</b>	Unit 10: we had a great time!
<b>Week 12</b>	English for Computer Science
<b>Week 13</b>	Listening
<b>Week 14</b>	Revision of most important topics in the subject
<b>Week 15</b>	<b>Preparatory Week</b>



**APPENDIX:**

UNIVERSITY of Anbar				
GRADING SCHEME				
Group	ECTS Grade	% of Students/Marks	Definition	GPA
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Best 10%	Outstanding Performance	<b>5</b>
	<b>B</b> - Very Good	Next 25%	Above average with some errors	<b>4</b>
	<b>C</b> - Good	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D</b> - Satisfactory	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E</b> - Sufficient	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 – 49)</b>	<b>FX</b> – Fail	(45-49)	More work required but credit awarded	
	<b>F</b> – Fail	(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.

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	الحريات وحقوق الانسان		Module Delivery
Module Type	S		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOA005		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	1	Semester of Delivery	
Administering Department	IS	College	Type College Code
Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title		Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

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

<b>Module Objectives</b> أهداف المادة الدراسية	<p>أ. تعليم الطلبة على أساسيات حقوق الإنسان وقوانينها.</p> <p>ب. التعرف على الحقوق وأهم الإشكاليات والتحديات التي تواجهها</p> <p>ج- تحديد وفهم المفاهيم المتعلقة بالحرية، بما في ذلك الحقوق الفردية والحرية الشخصية.</p> <p>د. تنمية القدرة على التفكير النقدي حول القضايا المتعلقة بالحرية والحقوق الفردية.</p>
<b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية	<p>١- أن يعرف الطالب مفهوم الحقوق وقوانينها وتطبيقاتها .</p> <p>٢- أن يعرف الطالب كيفية المشاركة في نشر الحقوق وتطبيقها بالعمل الواقعي الحقيقي.</p> <p>٣- القدرة على استخدام الحقوق وسيلة من أجل التعايش السلمي بين مكونات المجتمع وجميع المخلوقات .</p> <p>٤- القدرة على مشاركة الآخرين في نشر هذه الحقوق .</p> <p>٥- القدرة على تحليل وتعريف مفهوم الحرية والتمييز بين أنواع مختلفة من الحرية.</p> <p>٦- التفاعل مع قضايا الحرية على الصعيدين الوطني والدولي والتأثير في تشكيل الرأي العام.</p>
<b>Indicative Contents</b> المحتويات الإرشادية	<p>الحقوق والحرية الأساسية وغير الأساسية</p> <p>الحقوق والحرية المدنية</p> <p>الحقوق السياسية</p> <p>حقوق الانسان والقانون الدولي الإنساني</p>

## Learning and Teaching Strategies

### استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>١- المشاركة بالتحضير في قاعة الدرس</p> <p>٢- طريقة الأسئلة والأجوبة في قاعة الدرس</p> <p>٣- الواجبات</p> <p>٤- التقارير</p>
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## Student Workload (SWL)

### الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا

<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطلاب خلال الفصل	33	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطلاب أسبوعيا	2
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطلاب خلال الفصل	17	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطلاب أسبوعيا	1
<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطلاب خلال الفصل	50		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1		Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	تعريف الحقوق
Week 2	أنواع حقوق الانسان
Week 3	الحقوق الأساسية وغير الأساسية
Week 4	- الحقوق المدنية , الحقوق السياسية
Week 5	الحقوق الاقتصادية والاجتماعية والثقافية الحقوق الفردية والحقوق الجماعية
Week 6	طائفة الحقوق الجديدة حقوق الانسان والقانون الدولي الإنساني العلاقة بين حقوق الانسان والقانون الدولي الإنساني
Week 7	امتحان
Week 8	ماهو مفهوم الحريات :مصطلح الحرية والحريات العامة
Week 9	التطور في مفهوم الحريات العامة
Week 10	أشكال الحريات العامة وأنواعه
Week 11	النظام القانوني للحريات العامة
Week 12	تنظيم الحريات العامة من قبل السلطات العامة

Week 13	ضمانات الحريات العامة
Week 14	الحريات في الفكر السياسي الحديث
Week 15	الامتحان النهائي

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Diamond L. & M. F. Plattner, eds., (2009), Democracy. A Reader, Baltimore, Johns Hopkins University Press.	yes
Recommended Texts	مفهوم الحريات العامة وحقوق الانسان ، إطارها التاريخي والفكري والفلسفي، وضماناتها الأساسية- ٢٠١٠	
Websites	<a href="http://ghrorg-learning.blogspot.com">http://ghrorg-learning.blogspot.com</a>	

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	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

**Note:** Marks 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.

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information					
<b>Module Title</b>	Structured programming II			<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISSP201	<b>ECTS Credits</b>		8	
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>		Two	
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT		
<b>Module Leader</b>	Mahmoud Hilal Farhan	<b>e-mail</b>	Mah2005hilal@uoanbar.edu.iq		
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>		PhD	
<b>Module Tutor</b>	Mahmoud Hilal Farhan	<b>e-mail</b>	Mah2005hilal@uoanbar.edu.iq		
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/		
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0		

Relation With Other Modules	
<b>Pre-requisites</b>	ISSP101
<b>Co-requisites</b>	
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	Learn how to use the Advanced Tools helps programmers write fast, portable programs The main principles of collections programming and the development of programming languages Learn the advanced principles of Structure programming
<b>Module Learning</b>	A- Knowledge and Understanding collection such as list and Dictionaries

<b>Outcomes</b>	A2.Learn about Files and Exceptions A3.Learn about advanced topics in python
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	5.34
<b>Unstructured workload (h/w)</b>	8
<b>Total workload (h/w)</b>	13.34

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the Library?</b>

<b>Required Texts</b>	Deitel, Paul, Harvey Deitel, and Paul J. Deitel. Python for Programmers. Addison-Wesley Professional, 2019.	
<b>Recommended Texts</b>	Tony Gaddis, Starting Out with Python, 5th editio, Haywood Community College, Pearson 2021	
<b>Websites</b>	<a href="http://w3schools.com/python">Python in w3schools.com</a>	

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	<b>Functions:</b> Functions with Parameters and Variables in Functions
<b>Week 2</b>	<b>Functions:</b> Return Values
<b>Week 3</b>	<b>Functions:</b> Importing Functions into Other Programs
<b>Week 4</b>	<b>Lists:</b> Adding Elements to a List, Removing Elements from a List, and Rearranging the Elements in a List
<b>Week 5</b>	<b>List:</b> Searching a List and Lists as Return Values and Arguments
<b>Week 6</b>	<b>Dictionaries:</b> Accessing, Modifying and Adding Values, Removing a Key-Value Pair and Additional Dictionary Operations
<b>Week 7</b>	<b>Mid-Term Exam</b>
<b>Week 8</b>	<b>Dictionaries:</b> Loops and Dictionaries and Dictionaries as Arguments and Return Values
<b>Week 9</b>	<b>Dictionaries:</b> Dictionaries: Accessing, Modifying and Adding Values, Removing a Key-Value Pair and Additional Dictionary Operations
<b>Week 10</b>	<b>Dictionaries:</b> Loops and Dictionaries and Dictionaries as Arguments and Return Values
<b>Week 11</b>	<b>Files :</b> Opening a File, and Reading Input from a File
<b>Week 12</b>	<b>Files:</b> End of Line Characters and Writing Output to a File



<b>Week 13</b>	<b>Files : Command Line Arguments Exceptions</b>
<b>Week 14</b>	<b>Recursion : Summing Integers , Fibonacci Numbers and Counting Characters</b>
<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Logic Design II	<b>Module Type</b>	TYPE B
<b>Module Code</b>	CSIT111	<b>ECTS Credits</b>	6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	Two
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Muntaser AbdulWahed Salman Abdulaziz	<b>e-mail</b>	co.montasser.salman@uoanbar.edu. iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD.
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	CSIT109
<b>Co-requisites</b>	
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<ul style="list-style-type: none"> <li>● The student should understand encoder, decoder and multiplexers</li> <li>● The student should understand synchronous logic circuit</li> <li>● The student should understand flip-flops and how to use them</li> <li>● The student should understand registers and their types</li> <li>● The student should understand counters and their types</li> <li>● The student should understand ROM and PLA implementation</li> </ul>
<b>Module Learning Outcomes</b>	A1. The student should understand encoder, decoder and multiplexers A2. The student should understand flip-flops and how to use them.

	A3. The student should understand registers and their types. A4. The student should understand counters and their types. A5. The student should understand ROM and PLA implementation.
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	4.4
<b>Unstructured workload (h/w)</b>	5.6
<b>Total workload (h/w)</b>	10

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	15% (15)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the</b>

		<b>Library?</b>
<b>Required Texts</b>		Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	Synchronous logic gates
<b>Week 2</b>	Adder and subtractor circuits
<b>Week 3</b>	Comparator circuits
<b>Week 4</b>	Encoders and multiplexers
<b>Week 5</b>	Multiplexers
<b>Week 6</b>	First month exam
<b>Week 7</b>	<b>Mid-Term Exam</b>
<b>Week 8</b>	Flip-flops
<b>Week 9</b>	SR flip flop and j k flip flop
<b>Week 10</b>	T flip flop and D flip flop
<b>Week 11</b>	Second month exam
<b>Week 12</b>	Registers design
<b>Week 13</b>	Counters design
<b>Week 14</b>	ROM PLA State plan
<b>Week 15</b>	<b>Preparatory Week</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Arabic Language	<b>Module Type</b>	TYPE B
<b>Module Code</b>	UOA137	<b>ECTS Credits</b>	2
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	Two
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Saad Ibrahim Ahmed Hussein	<b>e-mail</b>	Saad.ibrahim@uonbar.edu.iq
<b>Module Leader's Acad. Title</b>	Assistant Professor	<b>Module Leader's Qualification</b>	Ph. D
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	2.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	تعليم الطلبة على أساسيات اللغة العربية وقواعدها تعليم الطلبة على كيفية الأعراب
<b>Module Learning Outcomes</b>	أن يتعرف الطالب على قواعد اللغة العربية أن يعرف الطالب كيفية بناء الجمل واستخراجها للعنوان المطلوب
<b>Indicative Contents</b>	

<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> <li>1. Power point presentation (Data show).</li> <li>2. Explanation on the white board using different color markers.</li> <li>3. Discussions with the student during teaching.</li> <li>4. Interaction with students through daily problems practice through lecture.</li> <li>5. Solve different problems with more exercises.</li> <li>6. Submit assignment that develop student learning.</li> </ol>

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	2.3
<b>Unstructured workload (h/w)</b>	4.3
<b>Total workload (h/w)</b>	6.6

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	2	6% (6)	5 and 10	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>	1	5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	60% (60)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the Library?</b>
<b>Required Texts</b>		Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

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<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	العدد تذكيره وتأنيثه
<b>Week 2</b>	الأعداد المفردة والمركبة
<b>Week 3</b>	ألفاظ العقود و الأعداد (مئة ، ألف ، مليون)
<b>Week 4</b>	تعريف العدد وتنكيره
<b>Week 5</b>	ما يصاغ من العدد على وزن فاعل
<b>Week 6</b>	كتابة الهمزة المتوسطة والمتطرفة
<b>Week 7</b>	Mid-Term Exam
<b>Week 8</b>	كتابة الألف اللينة
<b>Week 9</b>	كتابة التاء المربوطة والمبسوطة
<b>Week 10</b>	كتابة الضاد والطاء
<b>Week 11</b>	اللامات وأنواعها
<b>Week 12</b>	الهاءات وأنواعها
<b>Week 13</b>	النونات وأنواعها
<b>Week 14</b>	استعمالات (ما ، من) والفرق بين (أما ، إما)
<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

#### APPENDIX:

<b>UNIVERSITY of Anbar</b>
<b>GRADING SCHEME</b>



<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

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## MODULE DESCRIPTOR FORM

Module Information			
<b>Module Title</b>	Communication Skills	<b>Module Type</b>	Type c
<b>Module Code</b>	ISMT203	<b>ECTS Credits</b>	2
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>	Two
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT
<b>Module Leader</b>	Mohammed .Rabeea	<b>e-mail</b>	mohammed.rabeea@uoanbar.edu.iq
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD
<b>Module Tutor</b>		<b>e-mail</b>	
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	1.0

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<p>The aims of a module focused on communication skills typically revolve around equipping individuals with the tools and techniques necessary to effectively convey information, ideas, and emotions in various contexts.</p>
<b>Module Learning Outcomes</b>	<ul style="list-style-type: none"> <li>A1- Define and explain the key concepts and theories of communication.</li> </ul>

	<ul style="list-style-type: none"> <li>Identify and analyze the different types of communication.</li> <li>Apply communication skills in a variety of contexts.</li> <li>Evaluate the effectiveness of their own communication skills.</li> <li>Develop a plan to improve their communication skills.</li> </ul>
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> <li>Power point presentation (Data show).</li> <li>Explanation on the white board using different color markers.</li> <li>Discussions with the student during teaching.</li> <li>Interaction with students through daily problems practice through lecture.</li> <li>Solve different problems with more exercises.</li> <li>Submit assignment that develop student learning.</li> </ol>

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	5.4
<b>Unstructured workload (h/w)</b>	8
<b>Total workload (h/w)</b>	13.4

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>		% ()	3,7 and 11	
<b>Assignments</b>	4	5% (20)	2 and 12	
<b>Projects / Lab.</b>	1/0	5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	10% (10)	7	
<b>Final Exam</b>	1Z	50% (50)	16	
<b>Total</b>		100% (100 Marks)		

<b>Learning and Teaching Resources</b>		
	<b>Text</b>	<b>Available in the Library?</b>
<b>Required Texts</b>	Communication: Building Relationships by Judy C. Pearson, 10th Edition, Allyn & Bacon, 2019	Yes/No
<b>Recommended Texts</b>		Yes/No
<b>Websites</b>		

<b>Delivery Plan (Weekly Syllabus)</b>	
	<b>Material Covered</b>
<b>Week 1</b>	Definition of communication and its significance
<b>Week 2</b>	Models of communication The role of perception and context in communication
<b>Week 3</b>	Principles of effective writing Grammar, punctuation, and sentence structure
<b>Week 4</b>	Crafting clear and concise messages Writing for different audiences and purposes
<b>Week 5</b>	Public speaking fundamentals Speech organization and delivery techniques
<b>Week 6</b>	Overcoming stage fright and anxiety Practicing persuasive communication
<b>Week 7</b>	<b>Mid-Term Exam</b>
<b>Week 8</b>	Active listening skills Empathetic communication and rapport-building
<b>Week 9</b>	Conflict resolution strategies Cultural sensitivity and communication
<b>Week 10</b>	Understanding body language and facial expressions Gestures, posture, and eye contact
<b>Week 11</b>	Interpreting non-verbal cues in communication

	Using non-verbal communication to enhance message clarity
<b>Week 12</b>	Ethical communication Ethical principles in communication
<b>Week 13</b>	Communication in academic settings (presentations, group discussions)
<b>Week 14</b>	Professional communication (emails, meetings, networking)
<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

### APPENDIX:

UNIVERSITY of Anbar				
GRADING SCHEME				
Group	ECTS Grade	% of Students/Marks	Definition	GPA
<b>Success Group (50 - 100)</b>	<b>A</b> - Excellent	Best 10%	Outstanding Performance	<b>5</b>
	<b>B</b> - Very Good	Next 25%	Above average with some errors	<b>4</b>
	<b>C</b> - Good	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D</b> - Satisfactory	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E</b> - Sufficient	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX</b> – Fail	(45-49)	More work required but credit awarded	
	<b>F</b> – Fail	(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.

# MODULE DESCRIPTION FORM

## نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<b>Communication skills</b>		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<b>CSDC123</b>		
ECTS Credits	2		
SWL (hr/sem)	<b>50</b>		
Module Level	UGI	Semester of Delivery	
Administering Department	CSIT	College	Type College Code
Module Leader	Name	e-mail	
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

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

<p><b>Module Objectives</b> أهداف المادة الدراسية</p>	<ul style="list-style-type: none"> <li>- Develop Effective Communication Strategies: Learn how to adapt communication styles for different audiences, situations, and purposes.</li> <li>- Enhance Written Communication: Improve the ability to express thoughts and ideas clearly and concisely in written form, including emails, reports, and other written documents.</li> <li>- Improve Presentation Skills: Learn how to prepare and deliver effective presentations, including structuring content, using visual aids, and engaging an audience.</li> </ul>
<p><b>Module Learning Outcomes</b> مخرجات التعلم للمادة الدراسية</p>	<p>On successful completion of the module, students will be able to:</p> <ul style="list-style-type: none"> <li>- Articulate their thoughts and ideas clearly and concisely, with improved vocabulary and grammar.</li> <li>- Produce well-structured, error-free written documents, such as emails, reports, and other written materials.</li> <li>- Adapt their communication style to suit different audiences, situations, and purposes.</li> <li>- Prepare and deliver engaging and informative presentations, utilizing appropriate structure, visual aids, and audience engagement techniques.</li> </ul>
<p><b>Indicative Contents</b> المحتويات الإرشادية</p>	<p>Introduction to communication skills Study skills Library skills Listening skills Presentation skills</p>

## Learning and Teaching Strategies

### استراتيجيات التعلم والتعليم

<p><b>Strategies</b></p>	<ul style="list-style-type: none"> <li>- The student should use utilities in the lab to apply scientific experiment</li> <li>- The ability to execute the applications software.</li> </ul>
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## Student Workload (SWL)

### الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

<p><b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل</p>	<p>33</p>	<p><b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا</p>	<p>2</p>
<p><b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل</p>	<p>17</p>	<p><b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا</p>	<p>1</p>
<p><b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل</p>	<p><b>50</b></p>		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	INTRODUCTION TO COMMUNICATION SKILLS
Week 2	Verbal Communication
Week 3	Communication cycle
Week 4	Study skills
Week 5	Presentation of Work
Week 6	Planning work
Week 7	Mid-term exam
Week 8	Library skills
Week 9	Academic library
Week 10	Research libraries
Week 11	LISTENING SKILLS
Week 12	Why You Need Good Listening Skills
Week 13	Barriers to effective listening
Week 14	READING SKILLS
Week 15	Types and methods of reading



## Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	

## Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Communication skills vol.I Wambui et al.	No
Recommended Texts		No
Websites		

## 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	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

**Note:** Marks 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.

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information				
<b>Module Title</b>	<b>Office Application</b>		<b>Module Type</b>	TYPE C
<b>Module Code</b>	ISOA204	<b>ECTS Credits</b>		6
<b>Module Level</b>	UGI	<b>Semester of Delivery</b>		Two
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT	
<b>Module Leader</b>	<b>Khalid Shaker Jasim</b>		<b>e-mail</b>	<b>khalidalhity@uoanbar.edu.iq</b>
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>		PhD
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/	
<b>Review Committee Approval</b>	DD/MM/YY	<b>Version Number</b>	1.0	

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	This module aims to equip students with the knowledge and skills to effectively utilize a suite of office applications for various business and productivity needs.
<b>Module Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Demonstrate a strong understanding of the core functionalities of common office applications (e.g., word processing, spreadsheet, presentation software).</li> <li>• Apply these functionalities to create professional documents, presentations, and spreadsheets for diverse purposes.</li> <li>• Employ advanced features of the software to enhance the efficiency and</li> </ul>

	<p>effectiveness of their work.</p> <ul style="list-style-type: none"> <li>Collaborate effectively on documents and projects within a team setting using the application's collaborative tools.</li> <li>Analyze and interpret data effectively using spreadsheet functions and data visualization tools.</li> </ul>
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> <li>Power point presentation (Data show).</li> <li>Explanation on the white board using different color markers.</li> <li>Discussions with the student during teaching.</li> <li>Interaction with students through daily problems practice through lecture.</li> <li>Solve different problems with more exercises.</li> <li>Submit assignment that develop student learning.</li> </ol>

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	5.4
<b>Unstructured workload (h/w)</b>	8
<b>Total workload (h/w)</b>	13.4

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	3	6% (6)	3,7 and 11	LO #1, #2, #4, #5 and #10, #11
<b>Assignments</b>	2	6% (6)	2 and 12	LO #3, #4 and #6, #7
<b>Projects / Lab.</b>	1	15% (15)	Continuous	ALL
<b>Report</b>	1	5% (5)	13	LO #9, #11
<b>Midterm Exam</b>	2 hr	18% (18)	7	LO #1 - #7
<b>Final Exam</b>	3 hr	50% (50)	16	ALL
<b>Total</b>		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites	Both Microsoft ( <a href="https://support.microsoft.com/en-us/training">https://support.microsoft.com/en-us/training</a> ) and ( <a href="https://support.google.com/a/users/answer/9282959">https://support.google.com/a/users/answer/9282959</a> ) offer extensive tutorials, video guides, and documentation for their respective office suites (Microsoft Office & Google Workspace).	

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to Office Applications Word Processing Basic
Week 2	Advanced Word Processing Spreadsheets Basics
Week 3	Presentations Basics
Week 4	Basic Computer Components
Week 5	Advanced Presentations
Week 6	Advanced Databases
Week 7	<b>Mid-Term Exam</b>
Week 8	Advanced Email
Week 9	Office Applications in the Workplace
Week 10	Accessibility and Assistive Technologies
Week 11	Troubleshooting and Problem Solving
Week 12	Ethics and Legal Issues

<b>Week 13</b>	Resume Writing and Interviewing Skills
<b>Week 14</b>	Final Project Presentations
<b>Week 15</b>	<b>Preparatory Week</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.

	Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	
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## MODULE DESCRIPTOR FORM

Module Information				
<b>Module Title</b>	Discrete Mathematics		<b>Module Type</b>	TYPE B
<b>Module Code</b>	CCIT061	<b>ECTS Credits</b>	6	
<b>Module Level</b>		<b>Semester of Delivery</b>	Two	
<b>Administering Department</b>	IS	<b>Faculty</b>	CSIT	
<b>Module Leader</b>	Akeel A Thulnoon	<b>e-mail</b>	akeelalhadithy@uoanbar.edu.iq	
<b>Module Leader's Acad. Title</b>	Lecturer	<b>Module Leader's Qualification</b>	PhD.	
<b>Module Tutor</b>		<b>e-mail</b>		
<b>Peer Reviewer Name</b>	/	<b>e-mail</b>	/	
<b>Review Committee Approval</b>	25/02/2024	<b>Version Number</b>	2.0	

Relation With Other Modules	
<b>Pre-requisites</b>	/
<b>Co-requisites</b>	/
Module Aims, Learning Outcomes and Indicative Contents	
<b>Module Aims</b>	<p>The aim of studying of discrete mathematics equips you with the tools to analyze and solve problems involving distinct, countable objects. It builds foundational skills in logical reasoning, counting techniques, and analyzing relationships between structures. Mastering these concepts empowers you to tackle problems in various fields, including computer science, cryptography, information theory, and areas of mathematics itself. By understanding the fundamental properties of discrete structures, you gain the ability to model and analyze real-world scenarios with precision and efficiency.</p>

<b>Module Learning Outcomes</b>	A1. Enhanced problem-solving skills A2. Strong foundation in logical thinking A3. Proficiency in counting techniques. A4. Understanding of discrete structures B. Ability to model real-world scenarios
<b>Indicative Contents</b>	
<b>Learning and Teaching Strategies</b>	
<b>Strategies</b>	The main strategy that will be adopted in delivering this module are: 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.

<b>Module Delivery</b>	
<b>Structured workload (h/w)</b>	2.34
<b>Unstructured workload (h/w)</b>	4.34
<b>Total workload (h/w)</b>	6.68

<b>Module Evaluation</b>				
	<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Quizzes</b>	2	6% (6)	5 and 10	
<b>Assignments</b>	2	6% (6)	2 and 12	
<b>Projects / Lab.</b>		5% (5)	Continuous	
<b>Report</b>	1	5% (5)	13	
<b>Midterm Exam</b>	2 hr	18% (18)	7	
<b>Final Exam</b>	3 hr	60% (60)	16	
<b>Total</b>		100% (100 Marks)		

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes/No
Recommended Texts		Yes/No
Websites		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction, Sets
Week 2	Relations, Practice
Week 3	Mathematical Logic (Propositional logic, Propositional calculus)
Week 4	Mathematical Logic (Predicate logic, Practice)
Week 5	Group Theory (Basic Concept)
Week 6	Group operations
Week 7	<b>Mid-Term Exam</b>
Week 8	Counting Theory ( counting principles)
Week 9	Pigeonhole principle
Week 10	Probability (Basic concepts)
Week 11	Counting techniques, Bayes' theorem
Week 12	Mathematical Induction and Recurrence Relations
Week 13	Graph Theory and Trees
Week 14	Boolean Algebra



<b>Week 15</b>	<b>Preparatory Week</b>
<b>Week 16</b>	<b>Final Exam</b>

**APPENDIX:**

<b>UNIVERSITY of Anbar</b>				
<b>GRADING SCHEME</b>				
<b>Group</b>	<b>ECTS Grade</b>	<b>% of Students/Marks</b>	<b>Definition</b>	<b>GPA</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	Best 10%	Outstanding Performance	<b>5</b>
	<b>B - Very Good</b>	Next 25%	Above average with some errors	<b>4</b>
	<b>C - Good</b>	Next 30%	Sound work with notable errors	<b>3</b>
	<b>D - Satisfactory</b>	Next 25%	Fair but with major shortcomings	<b>2</b>
	<b>E - Sufficient</b>	Next 10%	Work meets minimum criteria	<b>1</b>
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	(45-49)	More work required but credit awarded	
	<b>F – Fail</b>	(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.