

وزارة التعليم العالي والبحث العلمي جامعت الانبار كليت علوم الحاسوب وتكنولوجيا المعلومات



دليل مسار بولونيا

2025-2024

Module Description

Form

Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	

Module Information							
Module Title	Structured programming I				Module Type	Түре с	
Module Code	Module Code ISSP101 ECTS Cree		ECTS Cred	dits		8	
Module Level		UGI	Semester of Delivery		One		
Administering Department IS		IS	Faculty	CSIT			
Module Leader	Mahmoud Hi	lal	e-mail	mah	2005hilal@ud	banbar.edu.iq	
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		PhD		
Module Tutor		e-mail					
Peer Reviewer Name /		/	e-mail	/			
Review Commit	ttee Approval	DD/MM/YY	Version N	umbe	r 1.0		

Relation With Other Modules					
Pre-requisites	/				
Co-requisites	/				
Module Aims, Learning Outcomes and Indicative Contents					
Module Aims	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				
Module Learning Outcomes	A1- Knowledge and understanding A2. Learn algorithms A3. Learn flowcharts				

	A4. Learn structured programming					
	A5. Learn Python programming					
Indicative Contents						
	Learning and Teaching Strategies					
Strategies	 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. 					

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

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

Learning and Teaching Resources				
	Text	Available in the Library?		

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

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	StoringandManipulating ValuesCallingFunctionsCommentsFormatting ValuesWorking with StringsExercises	StoringandManipulating ValuesCallingFunctionsCommentsFormatting ValuesWorking with StringsExercises	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	OperationalAssignmentOperatorsRelationalOperatorsLogicalOperators.BitwiseOperatorLogicalOperators.Bitwise OperatorBitwise 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

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



Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.



Module Information							
Module Title	Fundamental o	Fundamental of Information Technology				ule Type	Түре с
Module Code		ISFI102	ECTS Crea	lits			6
Module Level		UGI	Semester	of D	eliver	у	One
Administering D	Administering Department IS		Faculty	CSI	SIT		
Module Leader	Mohanad Abdulsalam Younis gedan		e-mail	mohanad.abdul@uoanbar.edu.i			uoanbar.edu.iq
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification			Ph. D	
Module Tutor	odule Tutor		e-mail				
Peer Reviewer Name /		/	e-mail	/			
Review Commit	ttee Approval	DD/MM/YY	Version N	umł	ber	2.0	

Relation With Other Modules			
Pre-requisites	/		
Co-requisites	/		
Module Aims, Learning Outcomes and Indicative Contents			
Module Aims	 Provide a basic knowledge of computer hardware and software Introduce the business areas to which computers may be applied. Provide an introduction to business organization and information systems. Develop the skills in network & communication, which play an important part in business computing and information processing. 		
Module Learning	A-Knowledge and Understanding		

Outcomes	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.		
Indicative Contents			
Learning and Teaching Strategies			
Strategies	 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. 		

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

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

Week 15	Preparatory Week
Week 16	Final Exam

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

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Module Information						
Module Title	Logic Design I		M	lodule Type	Түре с	
Module Code		ISLD103	ECTS Crea	ECTS Credits		6
Module Level		UGI	Semester of Delivery		One	
Administering Department		IS	Faculty	CSIT		
Module Leader	Muntaser Abdulwahed Salman Abdulaziz		e-mail	Co.m	Co.montasser.salman@uoanbar.ed	
Moune Leaver			e-man	u.iq		
Module Leader's Acad. Title		Lecturer	Module Leader's Pl Qualification		PhD.	
Module Tutor		e-mail				
Peer Reviewer Name		/	e-mail	/		
Review Committee Approval		DD/MM/YY	Version N	umber	2.0	

Relation With Other Modules			
Pre-requisites	/		
Co-requisites	/		
Module Aims, Learning Outcomes and Indicative Contents			
Module Aims	 The student should understand number systems and codes and the conversion between them. The student should understand the Boolean expression and how to apply it. The student should recognize among different logic gates and how to use them. The student should understand how to design a logic circuit. The student should understand using K-map for simplification. 		

Module Learning Outcomes	 A-Knowledge and Understanding A1. The student should understand number systems and codes and the conversion between them. A2. The student should understand the Boolean expression and how to apply it. A3. The student should recognize among different logic gates and how to use them.
	A4. The student should understand how to design a logic circuit. A5. The student should understand using K-map for simplification
Indicative Contents	
	Learning and Teaching Strategies
Strategies	 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.

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

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

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

Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	

Module Information							
Module Title	odule Title Mathematic I		N	Aodule	Туре	Түре в	
Module Code		CCIT060 ECTS Credits		lits	6		6
Module Level		UGI	Semester of Delivery		One		
Administering D	epartment	IS	Faculty CSIT				
Module Leader	Muhammad	Rabie	e-mail mohammed.rabee		d.rabeea	a@uoanbar.edu.iq	
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification		PhD.		
Module Tutor			e-mail				
Peer Reviewer Name /		/	e-mail /				
Review Committee Approval DD/MM/YY		Version N	umbe	r 2.	0		

Relation With Other Modules					
Pre-requisites	/				
Co-requisites	/				
Modu	Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	 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 				
Module Learning Outcomes	A-Knowledge and UnderstandingA 1. Acquiring the ability and skill to distinguish the bases of derivatives methods and dealing with themA 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 				
Indicative Contents					
	Learning and Teaching Strategies				
Strategies	 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. 				

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	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	Derivatives of the six trig functions		
Week 5	Exponential Functions, Logarithm Functions		
Week 6	Inverse Sine, Inverse cosine, Inverse tangent, Alternate Notation		
Week 7	Mid-Term Exam		
Week 8	Inverse Sine, Inverse cosine, Inverse tangent, Alternate Notation		
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		

Week 14	Introduction, Critical Points and Minimum and Maximum Values
Week 15	Preparatory Week
Week 16	Final Exam

UNIVERSITY of Anbar						
GRADING SCHEME						
Group	ECTS Grade	% of Students/Marks	% of Students/Marks Definition			
	A - Excellent	Best 10%	Outstanding Performance	5		
6 6	B - Very Good	Next 25%	Above average with some errors	4		
Success Group (50 - 100)	C - Good	Next 30%	Sound work with notable errors	3		
	D - Satisfactory	Next 25%	Fair but with major shortcomings	2		
	E - Sufficient	Next 10%	Work meets minimum criteria	1		
Fail Group	FX – Fail	(45-49)	More work required but credit awarded			
(0-49)	F – Fail	(0-44)	Considerable amount of work required			
Note:						

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Module Information								
Module Title	Module Title English (1)			Мо	dule Type	Type S		
Module Code		UOA003	ECTS Cred	lits		2		
Module Level		UGI	Semester	of Delive	ery	2 One bar.edu.iq		
Administering Department		IS	Faculty	CSIT	CSIT			
Module Leader	Akeel Abdulra Zoead	raheem Thulnoon e-mai		akeelall	akeelalhadithy@uoanbar.edu.iq			
Module Leader's Acad. Title		Assistant Professor	Module L Qualificat	Leader's PhD.		PhD.		
Module Tutor		e-mail						
Peer Reviewer Name		/	e-mail /					
Review Committee Approval DD/MM/YY			Version N	umber	2.0			

Relation With Other Modules			
Pre-requisites	/		
Co-requisites	/		
Module Aims, Learning Outcomes and Indicative Contents			
Module Aims	Enhancing English speaking, reading and writing Memorize a big number of vocabularies Helping students to deal with the English language in easier ways		
Module Learning Outcomes	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				
Indicative Contents					
	Learning and Teaching Strategies				
Strategies	 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. 				

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

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

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

نموذج وصف المادة الدراسية

معلومات المادة الدراسية						
Module Title	ان	•	Modu	le Delivery		
Module Type				⊠ Theory		
Module Code				Lecture		
ECTS Credits	2				□ Tutorial	
SWL (hr/sem)	50					
Module Level		1	Semester o	er of Delivery 1		1
Administering De	partment	IS	College	Туре С	ollege Code	
Module Leader	Name		e-mail	E-mail		
Module Leader's	Acad. Title		Module Lea	ader's Qu	alification	Ph.D.
Module Tutor Name (if available)		able)	e-mail	E-mail		
Peer Reviewer Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		01/06/2023	Version Nu	mber	1.0	

Relation with other Modules					
العلاقة مع المواد الدراسية الأخرى					
Prerequisite module	None	Semester			
Co-requisites module	None	Semester			

Modu	Module Aims, Learning Outcomes and Indicative Contents					
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية					
Module Objectives 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.					
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 أن يعرف الطالب مفهوم الحقوق وقوانينها وتطبيقاتها . أن يعرف الطالب كيفية المشاركة في نشر الحقوق وتطبيقها بالعمل الواقعي الحقيقي. القدرة على استخدام الحقوق وسيلة من أجل التعايش السلمي بين مكونات المجتمع وجميع المخلوقات . المخلوقات . القدرة على مشاركة الأخرين في نشر هذه الحقوق . القدرة على مشاركة الأخرين في نشر هذه الحقوق . القدرة على مشاركة الأخرين في نشر هذه الحقوق . القدرة على مشاركة الأخرين في نشر هذه الحقوق . القدرة على مشاركة الأخرين في نشر هذه الحقوق . القدرة على مشاركة الأخرين في نشر هذه الحقوق . القدرة على مشاركة الأخرين في نشر هذه الحقوق . 					
Indicative Contents	الحقوق والحريات الأساسية وغير الأساسية الحقوق والحريات المدنية الحقوق السياسية					
المحتويات الإرسادية	حقوق السياسية قوق الانسان والقانون الدولي الإنساني					

Learning and Teaching Strategies					
	استراتيجيات التعلم والتعليم				
Strategies	 المشاركة بالتحضير في قاعة الدرس طريقة الأسئلة والأجوبة في قاعة الدرس الواجبات التقارير 				

Student Workload (SWL)				
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا				
Structured SWL (h/sem)	22	Structured SWL (h/w)	2	
الحمل الدراسي المنتظم للطالب خلال الفصل	55	الحمل الدراسي المنتظم للطالب أسبوعيا	Z	
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	1	
الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	الحمل الدراسي غير المنتظم للطالب أسبوعيا	T	
Total SWL (h/sem)				
50 الحمل الدراسي الكلي للطالب خلال الفصل				

Module Evaluation تقييم المادة الدراسية							
	Time/Number Weight (Marks) Week Due Outcome						
	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11		
Formative	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7		
assessment	Projects / Lab.	1		Continuous	All		
	Report	1	10% (10)	13	LO #5, #8 and #10		
Summative	Midterm Exam	2hr	10% (10)	7	LO #1 - #7		
assessment	Final Exam	3hr	60% (60)	16	All		
Total assessme	ent		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				
WEEKJ	الحقوق الفردية والحقوق الجماعية				
	طائفة الحقوق الجديدة				
Week 6	حقوق الانسان والقانون الدولي الإنساني				
	العلاقة بين حقوق الانسان والقانون الدولي الانساني				
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	Voc			
Required Texts	Reader, Baltimore, Johns Hopkins University Press.	yes			
Recommended	مفهوم الحريات العامة وحقوق الانسان ، إطارها التاريخي والفكري				
Texts	والفلسفي، وضماناتها الأساسية- 2010				
Websites	http://ghrorg-learning.blogspot.com				

Grading Scheme مخطط الدرجات						
Group	Group Grade التقدير Marks % Definition					
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Success Group	C - Good	جيد	70 - 79	Sound work with notable errors		
(30 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required		

Module Information						
Module Title	Structured progra	amming II		Module Type		Түре В
Module Code		CSIT108	ECTS Cred	lits		8
Module Level		UGI	Semester	of Del	ivery	Two
Administering D	Administering DepartmentISFacultyCSIT					
Module Leader	Akeel Abdulı Zoead	aheem Thulnoon	e-mail akeelalhadithy@uoanbar.edu.iq		ıoanbar.edu.iq	
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		PhD	
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail	/		
Review Committee Approval		DD/MM/YY	Version N	umbe	r 2.0	

Relation With Other Modules			
Pre-requisites	CSIT107		
Co-requisites			
Modu	le Aims, Learning Outcomes and Indicative Contents		
Module Aims	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		

Module Learning Outcomes	A- Knowledge and Understanding A1. Learn the algorithms A2.Learn the Flowchart A3.Learn C++ Programming
Indicative Contents	
	Learning and Teaching Strategies
Strategies	 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.

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

Module Evaluation					
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome	
Quizzes	3	6% (6)	3,7 and 11		
Assignments	2	6% (6)	2 and 12		
Projects / Lab.	1	15% (15)	Continuous		
Report	1	5% (5)	13		
Midterm Exam	2 hr	18% (18)	7		
Final Exam	3 hr	50% (50)	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	Passing Parameters. Passing by Value. Passing by Reference.			
Week 2	Pointers			
Week 3	Arrays. Array of One Dimension: Declaration of Arrays.			
Week 4	Elements			
Week 5	Initializing Array			
Week 6	Accessing Array Elements.			
Week 7	Mid-Term Exam			
Week 8	Read / Write / Process Array Elements.			
Week 9	Array of Two Dimension: Declaration of 2D-Arrays.			
Week 10	Read / Write / Process Array Elements.			
Week 11	Member Function of String stdlib Library.			
Week 12	Structures. The Three Ways for Declare the Structure.			
Week 13	Array of Structures.			
Week 14	The Files			

Week 15	Preparatory Week
Week 16	Final Exam

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

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	ey oconin	

Module Information							
Module Title	DISCRETE S	STRUCTURE		Module Type		Түре В	
Module Code		CSIT112	ECTS Crea	ECTS Credits		6	
Module Level		UGI	Semester	of Delive	ry	First	
Administering D	Administering Department IS		Faculty	CSIT	CSIT		
Module Leader	Mohanad Ab gedan	dulsalam younis	e-mail mohanad.abdul@uoanbar.edu.iq		uoanbar.edu.iq		
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		Ph. D		
Module Tutor			e-mail				
Peer Reviewer Name		/	e-mail /				
Review Committee Approval		DD/MM/YY	Version Number 2.0		2.0		

Relation With Other Modules		
Pre-requisites	/	
Co-requisites	/	
Module Aims, Learning Outcomes and Indicative Contents		
Module Aims	 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 	

	A- Knowledge and Understanding				
	A1- Know the concept of data structures and how to apply them				
	A2- Understand how to use data structures to know the data to be organized in				
	program memory				
	A3- Understand and know the use of data structures in different real applications				
Module Learning	A4- Understand and know the methods of different data structures				
Outcomos	D. Subject specific skills				
Outcomes	B. Subject-specific skills				
	1. Providing the student with the skill of applying various data				
	2- Providing the student with the skill of structuring programs				
	3- Providing the student with the skill of planning any problem and solving it				
	programmatically				
	4- Providing the student with the skill of dealing with any type of data				
Indicative Contents	ndicative Contents				
multative contents					
	Learning and Teaching Strategies				
	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.				
Strategies	3. Discussions with the student during teaching.				
5	4 Interaction with students through daily problems practice through lecture				
	5 Solve different problems with more everyises				
	5. Solve unificient problems with more exercises.				
	o. Submit assignment that develop student learning.				

Module Delivery		
Structured workload (h/w)	3.4	
Unstructured workload (h/w)	6.6	
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	Introduction	
Week 2	General concept	
Week 3	Array Data structure	
Week 4	Stack data structure	
Week 5	Expression Parsing	
Week 6	Solving homework	
Week 7	Mid-Term Exam	
Week 8	Queue data structure	
Week 9	circular Queue data structure	
Week 10	Pointer &Structure	
Week 11	linked list data structure	
Week 12	linked list operations	
Week 13	Doubly linked list data structure	
Week 14	Doubly linked list operations	

Week 15	Preparatory Week
Week 16	Final Exam

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

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Department of Information System.	

Module Information						
Module Title	Logic Design II Module			ule Type	Түре В	
Module Code		CSIT111	ECTS Credits		6	
Module Level		UGI	Semester of Delivery		Two	
Administering Department		IS	Faculty	CSIT		
Module Leader	Muntaser AbdulWahed Salman Abdulaziz		e-mail	co.montasser.salman@uoanbar.edu iq		an@uoanbar.edu.
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		PhD.	
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail	1		
Review Committee Approval		DD/MM/YY	Version N	umber 2.0		

Relation With Other Modules		
Pre-requisites	CSIT109	
Co-requisites		
Modu	le Aims, Learning Outcomes and Indicative Contents	
Module Aims	 The student should understand encoder, decoder and multiplexers The student should understand synchronous logic circuit The student should understand flip-flops and how to use them The student should understand registers and their types The student should understand counters and their types The student should understand ROM and PLA implementation 	
Module Learning	A1. The student should understand encoder, decoder and multiplexers	
Outcomes	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 			
Indicative Contents				
Learning and Teaching Strategies				
Strategies	 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. 			

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

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

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

Module Information							
Module Title	odule Title Mathematic II		Module Type		Туре С		
Module Code		ISDC116	ECTS Credits		6		
Module Level		UGI	Semester of Delivery		y	One	
Administering Department		IS	Faculty	CSI	CSIT		
Module Leader	Mohammed R	abeea Al-Dahhan e-mail mohamn		nmed.rabeea@uoanbar.edu.i			
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		PhD.		
Module Tutor			e-mail				
Peer Reviewer Name		/	e-mail	/			
Review Committee Approval		DD/MM/YY	Version N	umb	er	2.0	

Relation With Other Modules				
Pre-requisites	ISDC115			
Co-requisites	/			
Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	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: 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.			

	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. 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.			
Module Learning Outcomes	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. 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. 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. 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.			
Indicative Contents				
Learning and Teaching Strategies				
Strategies	 The main strategy that will be adopted in delivering this module are: Power point presentation (Data show). Explanation on the white board using different color markers. Discussions with the student during teaching. Interaction with students through daily problems practice through lecture. Solve different problems with more exercises. Submit assignment that develop student learning. 			

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	

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

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

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

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System.	

Module Information						
Module Title	Arabic Language			Μ	odule Type	Түре В
Module Code		UOA137	ECTS Crea	lits		4
Module Level		UGI	Semester of Delivery		Two	
Administering Department		IS	Faculty	CSIT		
Module Leader	Saad Ibrahim /	Ibrahim Ahmed Hussein e-mail		Saad.	Saad.ibrahim@uonbar.edu.iq	
Module Leader's Acad. Title		Assistant Professor	Module Leader'sPh. DQualificationPh. D		Ph. D	
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail	1 /		
Review Committee Approval DD/N		DD/MM/YY	Version N	umber	2.0	

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

	Learning and Teaching Strategies
Strategies	 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.

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

Module Evaluation						
	Time/NumberWeight (Marks)Week DueRelevant 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	العدد تذكيره وتأنيثه			
Week 2	الأعداد المفردة والمركبة			
Week 3	ألفاظ العقود و الأعداد (منة ، 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	المهاءات وأنواعها			
Week 13	النونات وأنواعها			
Week 14	استعمالات (ما ، من) والفرق بين (أما ، إما)			
Week 15	Preparatory Week			
Week 16	Final Exam			

UNIVERSITY of Anbar
GRADING SCHEME

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



University of Anbar Diploma Supplement

Anbar, Ramadi, Iraq Phone No.: e-mail: 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
 - 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
 - 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	Туре	Mark Grade ECTS	
Semester 1				
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 Ave	rage (GPA) = (-)		Total ECTS	30
Semester 2				-
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 Ave	rage (GPA) = (-)		Total ECTS	30
Semester 3				
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 Ave	rage (GPA) = (-)		Total ECTS	30
Semester 4				-
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
Semester 5				
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 aver	rage (GPA) = (–)		Total ECTS	30

3

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	А	5		
CSDC421	Computer Security II	Core	87	В	5		
CSDC422	Machine Learning	Core	76	С	6		
CSDC423	Web Development	Core	65	D	6		
UOA020	Project	Basic	65	D	8		
Grade Point Aver	age (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
	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
Success Group	C - Good	70 - 79	Sound work with notable errors
(50 - 100)	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

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 I	FUNCTION	OF THE	QUALIFICATI	ON
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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	<u>https://uoanbar.edu.iq/</u>
Registration Office e-mail	_xxxxx@_uoanbar.edu.iq

7.	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				
-	7.5	Official Stamp and Seal				

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 or 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 fist 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.	

Module Information						
Module Title	Module Title Structured programming I			Mo	dule Type	Түре с
Module Code		ISSP101	ECTS Crea	lits		8
Module Level		UGI	Semester	of Deliv	ery	One
Administering Department		IS	Faculty	CSIT		
Module Leader	Mahmoud Hi	lal	e-mail mah2005hilal@uo		anbar.edu.iq	
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification		PhD	
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail	/		
Review Commit	ttee Approval	DD/MM/YY	Version N	umber	1.0	

Relation With Other Modules					
Pre-requisites	/				
Co-requisites	/				
Modu	Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	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				
Module Learning Outcomes	A1- Knowledge and understandingA2. Learn algorithmsA3. Learn flowcharts				

	A4. Learn structured programming			
	A5. Learn Python programming			
Indicative Contents				
	Learning and Teaching Strategies			
Strategies	 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. 			

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

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

Learning and Teaching Resources			
	Text	Available in the Library?	

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

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	StoringandManipulating ValuesCallingFunctionsCommentsFormatting ValuesWorking with StringsExercises	StoringandManipulating ValuesCallingFunctionsCommentsFormatting ValuesWorking with StringsExercises	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	OperationalAssignmentOperatorsRelationalOperatorsLogicalOperators.BitwiseOperatorLogicalOperators.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

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



Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.



Module Information							
Module Title	Fundamental o	ndamental of Information Technology Mo			Modu	ule Type	Түре с
Module Code		ISFI102	ECTS Crea	lits			6
Module Level		UGI	Semester	of D	eliver	у	One
Administering D	Administering Department IS		Faculty	CSI	CSIT		
Module Leader	Mohanad Abdulsalam Younis gedan		e-mail	mohanad.abdul@uoanbar.edu.iq			ouoanbar.edu.iq?
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification			Ph. D	
Module Tutor	Module Tutor		e-mail				
Peer Reviewer Name /		/	e-mail	e-mail /			
Review Commi	ttee Approval	DD/MM/YY	Version N	umb	er	2.0	

Relation With Other Modules					
Pre-requisites	/				
Co-requisites	/				
Modu	le Aims, Learning Outcomes and Indicative Contents				
Module Aims	 Provide a basic knowledge of computer hardware and software Introduce the business areas to which computers may be applied. Provide an introduction to business organization and information systems. Develop the skills in network & communication, which play an important part in business computing and information processing. 				
Module Learning	A-Knowledge and Understanding				

Outcomes	 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. 					
Indicative Contents						
	Learning and Teaching Strategies					
Strategies	 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. 					

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

Module Evaluation						
	Time/Number Weight (Marks) Week Due Relevant Learning Outcom					
Quizzes	3	6% (6)	3,7 and 11			
Assignments	2	6% (6)	2 and 12			
Projects / Lab.	1	15% (15)	Continuous			
Report	1	5% (5)	13			
Midterm Exam	2 hr	18% (18)	7			
Final Exam	3 hr	50% (50)	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	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	Mid-Term Exam	
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	

Week 15	Preparatory Week
Week 16	Final Exam

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

Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	

Module Information							
Module Title	Logic Design I			Mod	ule Type	Түре с	
Module Code		ISLD103	ECTS Crea	ECTS Credits		6	
Module Level		UGI	Semester of Delivery		One		
Administering Department IS		IS	Faculty	CSIT	CSIT		
Module Leader Muntaser Ab		dulwahed Salman e-mail Co		Co.mor	o.montasser.salman@uoanbar.e		
	Abdulaziz	du		du.iq			
Module Leader's Acad. Title		Lecturer	Module Leader'sQualification		PhD.		
Module Tutor	e Tutor		e-mail	e-mail			
Peer Reviewer Name		/	e-mail	/			
Review Committee Approval		DD/MM/YY	Version N	umber	2.0		

Relation With Other Modules			
Pre-requisites	/		
Co-requisites	/		
Modu	lle Aims, Learning Outcomes and Indicative Contents		
Module Aims	 -The student should understand number systems and codes and the conversion between them. -The student should understand the Boolean expression and how to apply it. -The student should recognize among different logic gates and how to use them. -The student should understand how to design a logic circuit. -The student should understand using K-map for simplification. 		
Module Learning	A-Knowledge and Understanding		

Outcomes	A1. The student should understand number systems and codes and the conversion between them.A2. The student should understand the Boolean expression and how to apply it.A3. The student should recognize among different logic gates and how to use them.		
	A4. The student should understand how to design a logic circuit. A5. The student should understand using K-map for simplification		
Indicative Contents			
Learning and Teaching Strategies			
Strategies	 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. 		

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

Module Evaluation					
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome	
Quizzes	٣	6% (6)	3,7 and 11		
Assignments	2	6% (6)	2 and 12		
Projects / Lab.	1	1°% (1°)	Continuous		
Report	1	5% (5)	13		
Midterm Exam	2 hr	18% (18)	7		
Final Exam	3 hr	50% (50)	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	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	Mid-Term Exam	
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	

Week 15	Preparatory Week
Week 16	Final Exam

UNIVERSITY of Anbar						
	GRADING SCHEME					
Group	Group ECTS Grade % of Students/Marks Definition			GPA		
	A - Excellent	Best 10%	Outstanding Performance	5		
а с	B - Very Good	Next 25%	Above average with some errors	4		
Success Group	C - Good	Next 30%	Sound work with notable errors	3		
(50 - 100)	D - Satisfactory	Next 25%	Fair but with major shortcomings	2		
	E - Sufficient	Next 10%	Work meets minimum criteria	1		
Fail Group	FX – Fail	(45-49)	More work required but credit awarded			
(0 – 4 9)	F – Fail	(0-44)	Considerable amount of work required			
Note:						

Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	

Module Information							
Module Title	Module Title Mathematic I			N	Modu	le Type	Түре в
Module Code CCIT060		ECTS Crea	lits			6	
Module Level		UGI	Semester of Delivery		7	One	
Administering D	epartment	IS	Faculty	CSIT			
Module Leader	Muhammad 1	Rabie	e-mail mohammed.rabeea		@uoanbar.edu.iq		
Module Leader's	Acad. Title	Lecturer	Module L Qualificat	eader'	's		PhD.
Module Tutor			e-mail				
Peer Reviewer Name		/	e-mail	/			
Review Commit	DD/MM/YY	Version N	umbe	r	2.0		

Relation With Other Modules					
Pre-requisites	/				
Co-requisites	/				
Modu	Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	 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 				
Module Learning Outcomes	A-Knowledge and UnderstandingA 1. Acquiring the ability and skill to distinguish the bases of derivatives methods and dealing with themA 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
Indicative Contents	
	Learning and Teaching Strategies
Strategies	 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.

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

Module Evaluation								
	Time/Number	Time/NumberWeight (Marks)Week DueRelevant 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	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	Derivatives of the six trig functions				
Week 5	Exponential Functions, Logarithm Functions				
Week 6	Inverse Sine, Inverse cosine, Inverse tangent, Alternate Notation				
Week 7	Mid-Term Exam				
Week 8	Inverse Sine, Inverse cosine, Inverse tangent, Alternate Notation				
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				

Week 14	Introduction, Critical Points and Minimum and Maximum Values
Week 15	Preparatory Week
Week 16	Final Exam

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

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

Relation With Other Modules		
Pre-requisites	/	
Co-requisites	/	
Module Aims, Learning Outcomes and Indicative Contents		
Module Aims	Enhancing English speaking, reading and writing Memorize a big number of vocabularies Helping students to deal with the English language in easier ways	
Module Learning Outcomes	 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		
Indicative Contents			
Learning and Teaching Strategies			
Strategies	 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. 		

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

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	Unit 1: Hello					
Week 2	Unit 2:Your world					
Week 3	Unit 3:All about you					
Week 4	Unit 4: Family and friends					
Week 5	Unit 5: The way I live					
Week 6	Unit 6: Every Day					
Week 7	Mid-Term Exam					
Week 8	Unit 7: My favourites					
Week 9	Unit 8: Where I live					
Week 10	Unit 9:Times past					
Week 11	Unit 10:we had a great time!					
Week 12	English for Computer Science					
Week 13	Listening					
Week 14	Revision of most important topics in the subject					
Week 15	Preparatory Week					
UNIVERSITY of Anbar						
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GRADING SCHEME						
Group	ECTS Grade	% of Students/Marks	Definition	GPA		
	A - Excellent	Best 10%	Outstanding Performance	5		
a a	B - Very Good	Next 25%	Above average with some errors	4		
Success Group	C - Good	Next 30%	Sound work with notable errors			
(30 - 100)	D - Satisfactory	Next 25%	Fair but with major shortcomings	2		
	E - Sufficient	Next 10%	Work meets minimum criteria	1		
Fail Group	FX – Fail	(45-49)	More work required but credit awarded			
(0 – 49)	F – Fail	(0-44)	Considerable amount of work required			
Note:						

نموذج وصف المادة الدراسية

Module Information								
	معلومات المادة الدراسية							
Module Title	ان		Modu	le Delivery				
Module Type				⊠ Theory □ Lecture □ Lab □ Tutorial □ Practical				
Module Code								
ECTS Credits								
SWL (hr/sem)	50				Seminar			
Module Level		1	Semester o	of Delivery 1		1		
Administering Department		IS	College	Type College Code				
Module Leader	Name		e-mail	E-mail				
Module Leader's Acad. Title			Module Lea	ader'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 Nu	mber	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						
Module Objectives 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.						
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 ١- أن يعرف الطالب مفهوم الحقوق وقوانينها وتطبيقاتها . ٢- أن يعرف الطالب كيفية المشاركة في نشر الحقوق وتطبيقها بالعمل الواقعي الحقيقي. ٣- القدرة على استخدام الحقوق وسيلة من أجل التعايش السلمي بين مكونات المجتمع وجميع ٣- القدرة على مشاركة الأخرين في نشر هذه الحقوق . ٤- القدرة على مشاركة الأخرين في نشر هذه الحقوق . ٤- القدرة على مشاركة الأخرين في نشر هذه الحقوق . ٢- القدرة على مشاركة الأخرين في نشر هذه الحقوق . ٢- القدرة على مشاركة الأخرين في نشر هذه الحقوق . ٢- القدرة على مشاركة الأخرين على المربي المالي المالي المالي المالي المالي . 						
Indicative Contents المحتويات الإرشادية	الحقوق والحريات الأساسية وغير الأساسية الحقوق والحريات المدنية الحقوق السياسية حقوق الإنسان و القانون الدو لي الإنساني						

Learning and Teaching Strategies						
	استراتيجيات التعلم والتعليم					
Strategies	 ١- المشاركة بالتحضير في قاعة الدرس ٢- طريقة الأسئلة والأجوبة في قاعة الدرس ٣- الواجبات ٤- التقارير 					

Student Workload (SWL)						
۱۰ اسبوعا	الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا					
Structured SWL (h/sem)	22	Structured SWL (h/w)	n			
الحمل الدراسي المنتظم للطالب خلال الفصل	55	الحمل الدراسي المنتظم للطالب أسبوعيا	Z			
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	1			
الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	الحمل الدراسي غير المنتظم للطالب أسبوعيا	T			
Total SWL (h/sem)		50				
الحمل الدراسي الكلي للطالب خلال الفصل		50				

Module Evaluation تقييم المادة الدراسية							
	Time/Number Weight (Marks) Week Due Relevant Learning Outcome						
	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11		
Formative	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7		
assessment	Projects / Lab.	1		Continuous	All		
	Report	1	10% (10)	13	LO #5, #8 and #10		
Summative	Midterm Exam	2hr	10% (10)	7	LO #1 - #7		
assessment	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				
WEER J	الحقوق الفردية والحقوق الجماعية				
	طائفة الحقوق الجديدة				
Week 6	حقوق الانسان والقانون الدولي الإنساني				
	العلاقة بين حقوق الانسان والقانون الدولي الانساني				
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?				
Doguized Toyte	Diamond L. & M. F. Plattner, eds., (2009), Democracy. A	Voc				
Required Texts	Reader, Baltimore, Johns Hopkins University Press.	yes				
Recommended	مفهوم الحريات العامة وحقوق الانسان ، إطارها التاريخي والفكري					
Texts	والفلسفي، وضماناتها الأساسية- ٢٠١٠					
Websites	http://ghrorg-learning.blogspot.com					

Grading Scheme مخطط الدرحات						
Group	Group Grade التقدير Marks % Definition					
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Success Group	C - Good	جيد	70 - 79	Sound work with notable errors		
(30 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required		

Module Information						
Module Title	odule Title Structured programming II		Mo	dule Type	Түре С	
Module Code		ISSP201	ECTS Credits			8
Module Level		UGI	Semester of Delivery Two		Two	
Administering Department IS		Faculty	CSIT			
Module Leader	Mahmoud Hi	lal Farhan	e-mail Mah2005hilal@uoanbar.edu		oanbar.edu.iq	
Module Leader's Acad. Title		Lecturer	Module Leader'sPhDQualificationPhD		PhD	
Module Tutor	Mahmoud Hi	lal Farhan	e-mail Mah2005hilal@uoanbar.edu.		oanbar.edu.iq	
Peer Reviewer Name /		/	e-mail	/	/	
Review Committee Approval DD/MM/M		DD/MM/YY	Version N	umber 2.0		

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

Outcomes	A2.Learn about Files and Exceptions
	A3.Learn about advanced topics in python
Indicative Contents	
	Learning and Teaching Strategies
Strategies	 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.

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

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

Learning and Teaching Resources			
	Text	Available in the Library?	

Required Texts	Deitel, Paul, Harvey Deitel, and Paul J. Deitel. Python for Programmers. Addison-Wesley Professional, 2019.	
Recommended Texts	Tony Gaddis, Starting Out with Python, 5th editio, Haywood Community College, Pearson 2021	
Websites	Python in w3schools.com	

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

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

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

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Module Information						
Module Title	Logic Design II			Mod	ule Type	Түре В
Module Code CSIT111		ECTS Crea	lits		6	
Module Level		UGI	Semester of Delivery		Two	
Administering Department		IS	Faculty	CSIT		
Module Leader	Muntaser Abdu Abdulaziz	lWahed Salman	e-mail co.montasser.salma		an@uoanbar.edu.	
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		PhD.	
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail	/		
Review Committee Approval		DD/MM/YY	Version N	umber 2.0		

Relation With Other Modules		
Pre-requisites	CSIT109	
Co-requisites		
Modu	le Aims, Learning Outcomes and Indicative Contents	
Module Aims	 The student should understand encoder, decoder and multiplexers The student should understand synchronous logic circuit The student should understand flip-flops and how to use them The student should understand registers and their types The student should understand counters and their types The student should understand ROM and PLA implementation 	
Module Learning Outcomes	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 		
Indicative Contents			
Learning and Teaching Strategies			
Strategies	 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. 		

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

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

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

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Module Information						
Module Title	Arabic Language			Mod	lule Type	Түре В
Module Code		UOA137	ECTS Credits		2	
Module Level		UGI	Semester of Delivery		Two	
Administering Department		IS	Faculty	CSIT		
Module Leader	Saad Ibrahim A	d Ibrahim Ahmed Hussein e-I		Saad.ib	Saad.ibrahim@uonbar.edu.iq	
Module Leader's	Acad. Title	Assistant Professor	Module L Qualificat	eader's ion		Ph. D
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail /			
Review Committee Approval		DD/MM/YY	Version Number 2.0			

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

	Learning and Teaching Strategies
Strategies	 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.

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

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	العدد تذكيره 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	المهاءات وأنواعها		
Week 13	النونات وأنواعها		
Week 14	استعمالات (ما ، من) والفرق بين (أما ، إما)		
Week 15	Preparatory Week		
Week 16	Final Exam		

UNIVERSITY of Anbar GRADING SCHEME

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

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Module Information						
Module Title	Module Title Communication Skills			Mo	lule Type	Туре с
Module Code		ISMT203	ECTS Cred	lits		2
Module Level		UGI	Semester	ester of Delivery Two		Тwo
Administering D	epartment	IS	Faculty	Faculty CSIT		
Module Leader	Mohammed .	Rabeea	e-mail mo		mohammed.rabeea@uoanbar.edu.iq	
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification		PhD	
Module Tutor			e-mail			
Peer Reviewer Name / e-mai		e-mail	/			
Review Commit	ttee Approval	DD/MM/YY	YY Version Number 1.0			

Relation With Other Modules		
Pre-requisites	/	
Co-requisites	/	
Module Aims, Learning Outcomes and Indicative Contents		
Module Aims	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.	
Module Learning Outcomes	• A1- Define and explain the key concepts and theories of communication.	

	 Identify and analyze the different types of communication. Apply communication skills in a variety of contexts. Evaluate the effectiveness of their own communication skills. Develop a plan to improve their communication skills. 		
Indicative Contents			
Learning and Teaching Strategies			
Strategies	 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. 		

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

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

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

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

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

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

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدر اسية						
Module Title	Communication skill		s	Modu	le Delivery	
Module Type	С				⊠ Theory ⊠ Lecture ⊠ Lab □ Tutorial □ Practical □ Seminar	
Module Code	CSDC123					
ECTS Credits	2					
SWL (hr/sem)	50					
Module Level		UGI	Semester o	f Delivery Two		Two
Administering Dep	partment	CSIT	College	Type College Code		
Module Leader	Name		e-mail			
Module Leader's Acad. Title Pro		Professor	Module Lea	Leader's Qualification Ph.D.		Ph.D.
Module Tutor	Name (if available)		e-mail	E-mail		
Peer Reviewer Name		Name	e-mail	il E-mail		
Scientific Committee Approval Date		01/06/2023	Version Nu	mber	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 الدر اسية ونتائج التعلم والمحتويات الإرشادية			
Module Objectives أهداف المادة الدر اسية	 Develop Effective Communication Strategies: Learn how to adapt communication styles for different audiences, situations, and purposes. Enhance Written Communication: Improve the ability to express thoughts and ideas clearly and concisely in written form, including emails, reports, and other written documents. Improve Presentation Skills: Learn how to prepare and deliver effective presentations, including structuring content, using visual aids, and engaging an audience. 			
Module Learning Outcomes مخرجات التعلم للمادة الدر اسية	 On successful completion of the module, students will be able to: Articulate their thoughts and ideas clearly and concisely, with improved vocabulary and grammar. Produce well-structured, error-free written documents, such as emails, reports, and other written materials. Adapt their communication style to suit different audiences, situations, and purposes. Prepare and deliver engaging and informative presentations, utilizing appropriate structure, visual aids, and audience engagement techniques. 			
Indicative Contents المحتويات الإرشادية	Introduction to communication skills Study skills Library skills Listening skills Presentation skills			

Learning and Teaching Strategies			
	استر اتيجيات التعلم والتعليم		
	- The student should use utilities in the lab to apply scientific experiment		
Strategies	- The ability to execute the applications software.		

Student Workload (SWL)			
الحمل الدر اسي للطالب محسوب لـ ١٥ اسبو عا			
Structured SWL (h/sem)	22	Structured SWL (h/w)	n
الحمل الدر اسي المنتظم للطالب خلال الفصل	55	الحمل الدراسي المنتظم للطالب أسبو عيا	Z
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	1
الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	الحمل الدراسي غير المنتظم للطالب أسبوعيا	T
Total SWL (h/sem)		EQ	
الحمل الدراسي الكلي للطالب خلال الفصل			

Module Evaluation تقييم المادة الدر اسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning
	Οιμίτζος	2	10% (10)	5 and 10	LO #1 #2 and #10 #11
	Quizzes	2	10/0 (10)	5 4114 10	
Formative	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
assessment	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
assessment	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.	N			
	Wambui et al.	NO			
Recommended		No			
Texts					
Websites					

Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks %	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Constant Constant	B - Very Good	جيد جدا	80 - 89	Above average with some errors	
Success Group	C - Good	ختر	70 - 79	Sound work with notable errors	
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings	
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria	
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded	
(0 – 49)	F — Fail	راسب	(0-44)	Considerable amount of work required	

Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	

Module Information						
Module Title	Module Title Office Application			Мо	dule Type	Түре с
Module Code ISOA20		ISOA204	ECTS Credits		6	
Module Level		UGI	Semester of Delivery		Two	
Administering Department		IS	Faculty	CSIT		
Module Leader	Iodule Leader Khalid Shaker Jasim		e-mail	khalidalhity@uoanbar.edu.iq		anbar.edu.iq
Module Leader's Acad. Title		Lecturer	Module L Qualificat	Module Leader'sPhDQualificationPhD		PhD
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail	/		
Review Committee Approval		DD/MM/YY	Version N	umber	1.0	

Relation With Other Modules					
Pre-requisites	/				
Co-requisites	/				
Modu	Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	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.				
Module Learning Outcomes	 Demonstrate a strong understanding of the core functionalities of common office applications (e.g., word processing, spreadsheet, presentation software). Apply these functionalities to create professional documents, presentations, and spreadsheets for diverse purposes. Employ advanced features of the software to enhance the efficiency and 				

	 effectiveness of their work. Collaborate effectively on documents and projects within a team setting using the application's collaborative tools. Analyze and interpret data effectively using spreadsheet functions and data visualization tools.
Indicative Contents	
	Learning and Teaching Strategies
Strategies	 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.

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

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

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

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	Mid-Term Exam			
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			

Week 13	Resume Writing and Interviewing Skills
Week 14	Final Project Presentations
Week 15	Preparatory Week

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

Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	

Module Information						
Module Title	Discrete Mathem	atics Modu			lule Type	Түре В
Module Code		CCIT061	ECTS Crea	lits	6	
Module Level			Semester of Delivery		Two	
Administering D	Department IS Faculty CSIT					
Module Leader	Akeel A Thulno	on	e-mail akeelalhadithy@u		oanbar.edu.iq	
Module Leader's Acad. Title Lectur		Lecturer	Module Leader's Qualification			PhD.
Module Tutor			e-mail			
Peer Reviewer Name /		/	e-mail /			
Review Commit	25/02/2024	Version N	umber	2.0		

Relation With Other Modules			
Pre-requisites	/		
Co-requisites	/		
Modu	le Aims, Learning Outcomes and Indicative Contents		
Module Aims	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.		

Module Learning Outcomes	 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
Indicative Contents	
	Learning and Teaching Strategies
Strategies	 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.

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

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.		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	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	Mid-Term Exam		
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		

Week 15	Preparatory Week
Week 16	Final Exam

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

Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	

Module Information							
Module Title	Object Oriented F	Programming I			Module Type		Туре с
Module Code	lule Code ISOO301 ECTS Credit		lits			8	
Module Level		UGII	Semester	of D	eliver	у	Three
Administering D	epartment	IS	Faculty	CSI	Т		
Module Leader	Doaa Yaseen Kł Rahman Al-ani	udhur Abdul	e-mail co.doaa.yassin@uoan			oanbar.edu.iq	
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification				
Module Tutor			e-mail				
Peer Reviewer Name		/	e-mail	il /			
Review Commit	ttee Approval	DD/MM/YY	Version Number 2.0				

Relation With Other Modules				
Pre-requisites				
Co-requisites				
Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	The student's acquisition of the concept of entity programming, classes, and objects, and how to deal with them. Clarify the concept of classes, what are the functions and properties of them, and the objects of each class. Giving the student experience in dealing with objects and classes and the distribution of properties and functions. The study of structured			

	programming, entity programming and what is known as object- oriented programming, knowledge of injunctions and functions to prepare the student to know how to write a set of commands, knowing what are injunctions, how to build classes and objects, what the class has of properties and functions, how to build several classes and several objects, and how properties are inherited between them				
Module Learning Outcomes	A Knowledge and Understanding A1. Gain the ability and skill to distinguish and deal with program instructions and functions of entity programming. A2- Acquire the skill of distinguishing between objects, classes and functions and linking them. A3- Dealing with the attributes and characteristics of each class and programming functions. B. Subject-specific skills B1. summer training B2. Graduate Research B3. Scientific Reports				
Indicative Contents					
	Learning and Teaching Strategies				
Strategies	 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. 				

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

Module Evaluation						
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome		
Quizzes	3	6% (6)	3,7 and 11			
Assignments	2	6% (6)	2 and 12			
Projects / Lab.	1	15% (15)	Continuous			
Report	1	5% (5)	13			
Midterm Exam	2 hr	18% (18)	7			
Final Exam	3 hr	50% (50)	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	Programming principles Overview to Programming Language	
Week 2	Algorithms and Flow Charts	
Week 3	Character set Identifiers Getting Started with C++. Variables Declaration	
Week 4	Variables Constants Arithmetic Operations The "math.h" Library Unary Minus Increment and /decrement Operators.	
Week 5	Unary Minus Increment and /decrement Operators.	
Week 6	Operational Assignment Operators Relational Operators Logical Operators. Bitwise Operator Logical Operators. Bitwise Operator	
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Week 7	Mid-Term Exam	
Week 8	Selection Statements the Single. The Switch Selection Statement (Selector	
Week 9	Nested If and If/else Statements If Statement Structure Conditional Statement	
Week 10	The Switch Selection Statement	
Week 11	While Repetition Structure. Do/While Statement for Statement	
Week 12	Do/While Statement for Statement	
Week 13	For Statement	
Week 14	Break and Continue Control Statements Nested Loops	
Week 15	Preparatory Week	
Week 16	Final Exam	

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

Module Information						
Module Title DATA STRUCTURES			Мо	lule Type	Туре С	
Module Code		ISDS302	ECTS Credits		6	
Module Level		UGII	Semester of Delivery		Three	
Administering Department		IS	Faculty	CSIT		
Module Leader	dule Leader Mahmoud Hilal		e-mail	mah2005hilal@uoanbar.edu.iq		oanbar.edu.iq
Module Leader's	Acad. Title	Lecture	Module L Qualificat	eader's ion		PHD
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail	l /		
Review Committee Approval		DD/MM/YY	Version N	umber	2.0	

Relation With Other Modules			
Pre-requisites			
Co-requisites	/		
Modu	le Aims, Learning Outcomes and Indicative Contents		
Module Aims	 The student will be able to understand and understand the mechanics of their algorithmic data repair problems in terms of their degree of complexity. Trees, how to build them in C++, self-recall, and how to deal with them that the student be able to understand the working mechanics of algorithms for data structures What are the best search algorithms, and the criteria for choosing the type of algorithm? sorting algorithm 		

Module Learning	A- Knowledge and Understanding This article is based on knowledge				
Outcomes	B. Subject-specific skills Learn to program in C++ in a professional way				
Indicative Contents					
	Learning and Teaching Strategies				
Strategies	 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. 				

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

Module Evaluation							
	Time/Number Weight (Marks) Week Due Relevant Learning Outcome						
Quizzes	3	6% (6)	3,7 and 11				
Assignments	2	6% (6)	2 and 12				
Projects / Lab.	1	15% (15)	Continuous				
Report	1	5% (5)	13				
Midterm Exam	2 hr	18% (18)	7				
Final Exam	3 hr	50% (50)	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	The general structure of the subject and the study vocabulary. general vocabulary. general vocabulary		
Week 2	Define algorithms, their properties, and how to write them Introduction to the article.		
Week 3	complexity of the algorithm in terms of time and execution Calculate the complexity of the algorithm in terms of time and steps		
Week 4	Recursion		
Week 5	Study all previous lectures with homework Solve the assessment methods in the previous 3 lectures		
Week 6	How to choose the type of sorting algorithm according to the data Introduction for sorting algorithm		
Week 7	Mid-Term Exam		
Week 8	Understand the workings of the algorithm. selection sort algorithm		
Week 9	Insertion sort algorithm		
Week 10	Bubble sort algorithm		
Week 11	Solve the assessment methods in the previous 3 lectures		
Week 12	Representing data as a tree. the trees		

Week 13	Programmatically represent the tree. Print, delete and add to the tree in the form of code
Week 14	How to search in trees. search algorithms
Week 15	Preparatory Week
Week 16	Final Exam

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

Module Information							
Module Title	Advanced Mather	matics Module Type			Туре С		
Module Code		ISAM307	ECTS Credits		5		
Module Level		UGII	Semester	ter of Delivery Three		Three	
Administering Department IS		IS	Faculty	CSIT	CSIT		
Module Leader	Taisir Ahmed	yaseen	e-mail taisir.ahmed@uoank			bar.edu.iq	
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification				
Module Tutor			e-mail				
Peer Reviewer Name		/	e-mail	ail /			
Review Commit	ttee Approval	DD/MM/YY	Version N	umbe	r 2.0		

Relation With Other Modules				
Pre-requisites				
Co-requisites				
Modu	le Aims, Learning Outcomes and Indicative Contents			
Module Aims	 1-To describe the aim of study advance mathematics 2-To understand what difference between ordinary equation and differential equation 3- To understand the difference between the type of differential equation 4- To learn the type of method to solve the differential equation 5- To apply the application of differential equation 			
Module Learning	A- Knowledge and Understanding			
Outcomes	A1. Understand the concept of ordinary and partial			

	A2.Understand the method of solving the first order differential equation A3.Understand the method of solving second order differential equation A4. Understand the Laplace transform A5.Underst and the Fourier series B. Subject-specific skills				
	B1.expliean what mean of ordinary and partial B2.classify the method of solving B3. Classify the differential equation				
Indicative Contents	cative Contents				
Learning and Teaching Strategies					
Strategies	 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. 				

Module Delivery			
Structured workload (h/w)	3.4		
Unstructured workload (h/w)	5		
Fotal workload (h/w)8.34			

Module Evaluation					
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome	
Quizzes	2	10% (10)	5 and 10		
Assignments	2	10% (10)	2 and 12		
Projects / Lab.	1	10% (10)	Continuous		
Report	1	10% (10)	13		
Midterm Exam	2 hr	10% (18)	7		
Final Exam	3 hr	50% (50)	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	Abstract of differential equation			
Week 2	Separable equation			
Week 3	Solve some example			
Week 4	Homogenous equation			
Week 5	Exact equation			
Week 6	Linear equation			
Week 7	Mid-Term Exam			
Week 8	Some example			
Week 9	Bernoulli equation			
Week 10	Second order differential equation			
Week 11	Some example			
Week 12	Laplace transform			
Week 13	Power series, Fourier series			
Week 14	Review			
Week 15	Preparatory Week			

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

Module Information معلومات المادة الدراسية							
Module Title	Cor	y	Modu	le Delivery			
Module Type		Core	⊠Theory				
Module Code	ISCT303				⊠Lecture ⊠Lab		
ECTS Credits		4					
SWL (hr/sem)							
Module Level		1	Semester o	of Delivery 1		1	
Administering De	partment	Type Dept. Code	Dept. Code College Type Colleg		ollege Code	llege Code	
Module Leader	Dr. Ehab ab	d-aljabar	e-mail	E-ma	il: iehab.a.k@ı	ıoanbar.edu.iq	
Module Leader's	Acad. Title		Module Lea	eader's Qualification Ph.D.		Ph.D.	
Module Tutor			e-mail	E-mail			
Peer Reviewer Name Name		Name	e-mail	E-mail			
Scientific Committee Approval Date			Version Nu	mber	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						
Module Objectives أهداف المادة الدراسية	Finite automata are useful models for many important kinds of hardware and software. Here are the most important kinds: Software for designing and checking the behavior of digital circuits; The "lexical analyzer" of a typical complier, that is, the compiler component that breaks the input text into logical units, such as identifiers, keywords, and punctuation; Software for scanning large bodies of text, such as collections of Web pages, to find occurrences of words, phrases, or other patterns; Software for verifying systems of all types that have a finite number of distinct states, such as communication protocols or protocols for secure exchange of information.					
Module Learning	 Knowledge and understanding Acquire a full understanding and mentality of Automata Theory as the basis of all computer science languages design Have a clear understanding of the Automata theory concepts such as RE's, DFA's, 					
Outcomes	NFA's, Stack's, Turing machines, and Grammars					
مخرجات التعلم للمادة الدراسية	 Cognitive skills (thinking and analysis). Be able to design FAs, NFAs, Grammars, languages modelling, small compilers basics Be able to design sample automata 					
	Communication skills (personal and academic).					
	 Be able to minimize FA's and Grammars of Context Free Languages Practical and subject specific skills (Transferable Skills). 					
Indicative Contents المحتويات الإرشادية	 Training in the applied use of key coding languages for creative computing Training in key frameworks for creative computing Introduction to online collaboration for creative computing 					

Learning and Teaching Strategies			
استراتيجيات التعلم والتعليم			
Strategies	Class discussions with examples.		

Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا					
Structured SWL (h/sem)	100	Structured SWL (h/w)	7		
الحمل الدراسي المنتظم للطالب خلال الفصل	109	الحمل الدراسي المنتظم للطالب أسبوعيا	/		
Unstructured SWL (h/sem)	01	Unstructured SWL (h/w)	6		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	91	الحمل الدراسي غير المنتظم للطالب أسبوعيا	O		
Total SWL (h/sem)200					

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

Delivery Plan (Weekly Syllabus)					
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	Reglual grammar				
Week 2	Context-Free Grammars				
Week 3	Parse Trees; Ambiguity in Grammars and Languages				
Week 4	Standard Forms; Chomsky Normal Forms;				
Week 5	Chomsky normal form				
Week 6	Greibach normal Forms.				
Week 7	Minimization of CFG's.				
Week 8	Pushdown Automata (PDA)				
Week 9	Deterministic and Non-Deterministic (PDA); Formal definition of NPDA.				
Week 10	Mid exam				
Week 11	Transition functions of NPDA; NPDA Execution.				
Week 12	Accepting Strings with NPDA; Equivalence of PDAs and CFG				
Week 13	The Turing Machine.				
Week 14	Programming Techniques for Turing Machines; Formal definition of TM's.				

Week 15	Decidable Languages and NP-Complete Problems
Week 16	Preparatory week before the final Exam

	Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1					
Week 2					
Week 3					
Week 4					
Week 5					
Week 6					
Week 7					

Learning and Teaching Resources						
	مصادر التعلم والتدريس					
	Text	Available in the Library?				
Required Texts	Introduction to Computer Theory, Daniel I. A. Cohen, Prentice-Hall, Second Edition, 1997.	Yes				
Recommended Texts	JohnE.Hopcroft, RajeevMotwani, JeffreyD.Ullman: Introduc- tiontoAutomataTheory,Languages, and Computation; Addison Wesley,2000.	No				
Websites	https://www.coursera.org/courses?query=theory%20of%20co	mputation				

Grading Scheme مخطط الدرجات						
Group	Grade	التقدير	Marks %	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success Group (50 - 100)	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required		

ISDC202MODULE DESCRIPTION FORM

Module Information معلومات المادة الدراسية						
Module TitleDesign and Analysis of Information Systems			Modu	Ile Delivery		
Module Type	Elect	ive learning activity	(E)		⊠Theory	
Module Code	Iodule Code ISDA305				⊠Lecture □Lab	
ECTS Credits	ECTS Credits 3				□Tutorial □Practical	
SWL (hr/sem)						
Module Level		2	Semester o	mester of Delivery 3		3
Administering Dep	partment	CSIT	College	Type College Code		
Module Leader	Module Leader Dr. Waleed Abdulmaged Hammood		e-mail	E-mail: <u>waleed</u>	E-mail: waleed.abdulmaged@uoanbar.edu.iq	
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification Ph.D.		Ph.D.	
Module Tutor	Name (if available) e-		e-mail	E-mail	E-mail	
Peer Reviewer Name		Name	e-mail E-mail			
Scientific Committee Approval Date		01/06/2023	Version Nu	umber 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				
Module Objectives أهداف المادة الدراسية	The Design and Analysis of Information Systems module aims to provide students with a comprehensive understanding of the principles and techniques involved in designing and analyzing complex information systems. The specific aims of this module may include: System Design Principles: The module aims to introduce students to the fundamental principles and concepts involved in designing information systems. This includes understanding system requirements, system modeling techniques, system architecture, and system integration				
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Software Development Lifecycle: Students will learn about the various phases of the software development lifecycle, including requirements gathering, system analysis, system design, implementation, testing, deployment, and maintenance. The aim is to familiarize students with industry-standard practices and methodologies for developing robust and scalable information systems. Database Design and Management: The module aims to provide students with a solid understanding of database design principles and techniques. This includes conceptual data modeling, entity-relationship modeling, normalization, database query languages (e.g., SQL), and database management systems (DBMS).				
Indicative Contents المحتويات الإرشادية	 Indicative content includes the following: The main strategy that will be adopted in delivering this module are: Power point presentation (Data show). Explanation on the white board using different color markers. Discussions with the student during teaching. Interaction with students through daily problems practice through lecture. Solve different problems with more exercises. Submit assignment that develop student learning. Modeling and Design: Use a range of specialist models to model the problems of computer and communication systems, such as deadlock, and design efficient and effective handling procedures. [15 hrs] Creative: Extend knowledge in information systems to construct specific and effective solution to manage and control computer resources.[11 hrs] Presentation: All students should participate in different presentations about different subjects. [11 hrs]				

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم				
Strategies	 Providing students with the fundamentals and topics related to thinking. Giving students daily assignments. Encouraging the formation of group discussions during the lecture. Present stimulating questions during the lecture, such as 'how' and 'why. 			

Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا					
Structured SWL (h/sem)	01	Structured SWL (h/w)	3.4		
الحمل الدراسي المنتظم للطالب خلال الفصل	91	الحمل الدراسي المنتظم للطالب أسبوعيا			
Unstructured SWL (h/sem)		Unstructured SWL (h/w)	2.0		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	3.9	الحمل الدراسي غير المنتظم للطالب أسبوعيا	5.8		
Total SWL (h/sem)	125				
الحمل الدراسي الكلي للطالب خلال الفصل	125				

Module Evaluation							
تقييم المادة الدراسية							
		Time/Number	Time/Number Weight (Marks)		Relevant Learning		
				Week Bue	Outcome		
	Quizzes	2	5% (5)	5 and 10	LO #1, #2 and #10, #11		
Formative	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7		
assessment	Projects / Lab.	1	10% (10)	Continuous	All		
	Report	1	5% (5)	13	LO #5, #8 and #10		
Summative	Midterm Exam	2hr	20% (20)	7	LO #1 - #7		
assessment Final Exam		3hr	50% (50)	16	All		
Total assessme	ent		100% (100 Marks)				

Delivery Plan (Weekly Syllabus)			
المنهاج الاسبوعي النظري			
	Material Covered		
Week 1	Defining Analysis of Information System		
Week 2	Role of a system analyst		

Week 3	Qualities of systems Analyst
Week 4	Types of Subsystems
Week 5	A framework for system approach
Week 6	System Characteristic
Week 7	Mid-term Exam
Week 8	Executive Support System (ESS)
Week 9	Decision Support System (DSS)
Week 10	Office Automation System (OAS)
Week 11	Transaction Processing System (TPS)
Week 12	System Development Strategies
Week 13	Unified Methodology Approach
Week 14	Technique Approach
Week 15	Preparatory Week
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر				
	Material Covered			
Week 1				
Week 2				
Week 3				
Week 4				
Week 5				
Week 6				
Week 7				

Learning and Teaching Resources						
مصادر التعلم والتدريس						
Text Available in the Library?						
Required Texts	Davis, W. S., & Yen, D. C. (Eds.). (2019). The information system consultant's handbook: Systems analysis and design	Yes				
	CRC press.					
Recommended		Ves				
Texts						

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

ISDC202MODULE DESCRIPTION FORM

Module Information معلومات المادة الدراسية						
Module Title	Introduction to E-Business System			Modu	le Delivery	
Module Type	Elective learning activity ((E)		⊠Theory	
Module Code	ISEI304				⊠Lecture □Lab □Tutorial □Practical	
ECTS Credits	3					
SWL (hr/sem)					Seminar	
Module Level	1 2		Semester of Delivery 3		3	
Administering Department CSIT		CSIT	College	Type College Code		
Module Leader	Dr. Waleed Abdulmaged Hammood		e-mail	E-mail: waleed.abdulmaged@uoanbar.edu.iq		oanbar.edu.iq
Module Leader's Acad. Title Lecturer		Module Leader's Qualification Ph.D.		Ph.D.		
Module Tutor	Name (if available) e-m		e-mail	E-mail		
Peer Reviewer Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		01/06/2023	Version Nu	mber 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					
Module Objectives أهداف المادة الدراسية	 Introduce information systems concepts, terminology, and provid understanding of the differences between various types of computer-to Information systems. Review applications and models utilizing information systems solutions to 3. Business problems. Study current trends in Information Technology, the impact of I Organizations, managers, and users, as well as ethical, social and legal iss Access and other software. 					
Module Learning	1) Fundamentals of Human Decourse Information systems (HDIC)					
Outcomes	 2) Group Decision Support Systems (GDSS) in HRIS 					
مخرجات التعلم للمادة الدراسية	 Computer Crimes, Ethics and Human Resource Information System Security Control. 					
Indicative Contents المحتويات الإرشادية	 Indicative content includes the following: 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. Modeling and Design: Use a range of specialist models to model the problems of computer and communication systems, such as deadlock, and design efficient and effective handling procedures. [15 hrs] 					
	 Creative: Helping students to explore specific technologies enables organizations to succeed. Especially focus on the decision models in spread sheet. Providing students with a view of how to plan, develop and manage the information technology applications in an organization. [11 hrs]. Presentation: All students should participate in different presentations about different subjects. [11 hrs] 					

Learning and Teaching Strategies				
استراتيجيات التعلم والتعليم				
Strategies	 Providing students with the fundamentals and topics related to thinking. Giving students daily assignments. Encouraging the formation of group discussions during the lecture. Present stimulating questions during the lecture, such as 'how' and 'why. 			

Student Workload (SWL) الحمل الدراسی للطالب محسوب له ۱۵ اسبوعا				
Structured SWL (h/sem) Structured SWL (h/w) 3.4 ١لحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل				
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	3.9	3.9 Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125			

Module Evaluation تقييم المادة الدراسية						
Time/Number Weight (Marks) Week Due Relevant Learning						
	Quizzos	2	E0/ (E)	E and 10	10 #1 #2 and #10 #11	
	Quizzes	Z	5% (5)	5 anu 10	LO #1, #2 and #10, #11	
Formative	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7	
assessment	Projects / Lab.	1	10% (10)	Continuous	All	
	Report	1	5% (5)	13	LO #5, #8 and #10	
Summative	Midterm Exam	2hr	20% (20)	7	LO #1 - #7	
assessment Final Exam		3hr	50% (50)	16	All	
Total assessme	ent		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)			
المنهاج الاسبوعي النظري			
	Material Covered		
Week 1	HRIS Basics		
Week 2	Human resource policies and practices enabled by HRIS		

Week 3	Internet recruiting and applicant tracking
Week 4	E-learning and other forms of technology-based training
Week 5	Telecommuting and the virtual workplace
Week 6	Personnel Administration Data Systems, Database considerations, Database tables, Subsystems, Personnel Status Reporting, Personnel action data system, Applications of HRIS
Week 7	Mid-term Exam
Week 8	Evolution of Group decision support system, Applications of GDSS in human resource area, Classification, Design and development
Week 9	Design principles of DSS, Application in commercial environments
Week 10	Introduction to Artificial Intelligence, General concepts, Planning, Decision making and problem solving, Introduction to Expert systems, Application of expert systems
Week 11	Enterprise Resource Planning (ERP) - Introductory concepts, ERP basics, ERP design and implementation, ERP applications, Business process re-engineering
Week 12	Security issues, Vendor evaluation, Ethics, Fraud, Internal Control
Week 13	Business Ethics, Areas of Business Ethics.
Week 14	Computer Ethics, Factors that Contribute to Fraud, Computer Fraud Schemes
Week 15	Limitations of Internal Controls, IT Controls.
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر			
	Material Covered		
Week 1			
Week 2			
Week 3			
Week 4			
Week 5			
Week 6			
Week 7			

Learning and Teaching Resources					
مصادر التعلم والتدريس					
	Text Available in the Library?				
	Davis, W. S., & Yen, D. C. (Eds.). (2019). The information				
Required Texts	system consultant's handbook: Systems analysis and design.	Yes			
	CRC press.				

Recommended		Voc
Texts		res
Websites	https://link.springer.com/book/10.1007/978-1-84628-655-1	

Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks %	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success Group (50 - 100)	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded	
(0 – 49)	F — Fail	راسب	(0-44)	Considerable amount of work required	

Ministry of Higher Education and Scientific Research. University of Anbar. Department of Information System.	

Module Information							
Module Title	Object Oriente	ed Programming II			Modı	ıle Type	Түре с
Module Code		ISOO401	ECTS Crea	lits			8
Module Level		UGII	Semester	of De	eliver	y	Four
Administering D	epartment	partment IS Faculty CSIT					
Module Leader	Doaa Yaseen Rahman Al-an	Khudhur Abdul ii	e-mail co.doaa.yassin@uoan		mbar.edu.iq		
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification				
Module Tutor			e-mail				
Peer Reviewer Name		/	e-mail /				
Review Committee ApprovalDD/MM/YYVersion Number2.0							

Relation With Other Modules				
Pre-requisites				
Co-requisites				
Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	The student's acquisition of the concept of entity programming, classes, and objects, and how to deal with them. Clarify the concept of classes, what are the functions and properties of them, and the objects of each class. Giving the student experience in dealing with objects and classes and the distribution of properties and functions. The study of structured			

	programming, entity programming and what is known as object-		
	oriented programming, knowledge of injunctions and functions to		
	prepare the student to know how to write a set of commands,		
	knowing what are injunctions, how to build classes and objects, what		
	the class has of properties and functions, how to build several classes		
	and several objects, and how properties are inherited between them.		
Module Learning Outcomes	 A Knowledge and Understanding A1. Gain the ability and skill to distinguish and deal with program instructions and functions of entity programming. A2- Acquire the skill of distinguishing between objects, classes and functions and linking them. A3- Dealing with the attributes and characteristics of each class and programming functions. B. Subject-specific skills B1. summer training B2. Graduate Research B3. Scientific Reports 		
Indicative Contents			
	Learning and Teaching Strategies		
Strategies	 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. 		

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

Module Evaluation				
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Quizzes	3	6% (6)	3,7 and 11	
Assignments	2	6% (6)	2 and 12	
Projects / Lab.	1	15% (15)	Continuous	
Report	1	5% (5)	13	
Midterm Exam	2 hr	18% (18)	7	
Final Exam	3 hr	50% (50)	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	Introduction to Operator Overloading	
Week 2	Operator Overloading Using Member Functions	
Week 3	Unary Operators Overloading	
Week 4	Operator Overloading Tips and Restrictions	
Week 5	Nonmember Operator Functions	
Week 6	Using a Friend to Overload a Unary Operator	

Week 7	Overloading the Relational and Logical Operators
Week 8	Introducing Inheritance
Week 9	Base Class Access Control
Week 10	Using protected Members
Week 11	Inheriting Multiple Base Classes
Week 12	Constructors, Destructors, and Inheritance
Week 13	Passing Parameters to Base Class Constructors
Week 14	Virtual Base Classes
Week 15	Final Exam

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

Module Information						
Module Title	Numerical Analysis			Мос	lule Type	Түре С
Module Code		CCIT062	ECTS Credits		5	
Module Level		UGII	Semester of Delivery		Four	
Administering Department		IS	Faculty	CSIT		
Module Leader	Dr. Abdul Azim Zaili		e-mail	ab72d74@uoanbar.edu.iq		
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		Ph D.	
Module Tutor			e-mail			
Peer Reviewer Name		/	e-mail	e-mail /		
Review Committee Approval		DD/MM/YY	Version Number 2.0			

Relation With Other Modules				
Pre-requisites	ISDC203			
Co-requisites				
Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	A-Understanding the concept of numerical analysis, its methods and applications. B-Explain the concept of the Matrices and its application in numerical analysis. C-Understanding the relationship between the numerical methods and the real problems and how to deal with it.			
Module Learning Outcomes	A1. Knowledge and UnderstandingA2. Gain the ability and skill to distinguish the numerical methods and deal with them.A3. Gain the ability and skills of the matrices applications.			

	A4. Dealing with the different numerical methods.B. Subject-specific skills B1. Summer TrainingB2. Fourth year projects				
Indicative Contents	B3. Scientific projects				
	Learning and Teaching Strategies				
Strategies	 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. 				

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

Module Evaluation							
	Time/NumberWeight (Marks)Week DueRelevant Learning Outcome						
Quizzes	3	6% (6)	3,7 and 11				
Assignments	2	6% (6)	2 and 12				
Projects / Lab.	1	15% (15)	Continuous				
Report	1	5% (5)	13				
Midterm Exam	2 hr	18% (18)	7				
Final Exam	3 hr	50% (50)	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	Direct Methods Direct methods for solving linear system of equation Theoretical and Experimental		
Week 2	Gaussian Elimination Simple Gaussian elimination method, gauss elimination method with partial pivoting, Theoretical and Experimental		
Week 3	Determinant determinant evaluation, gauss Jordan method, Theoretical and Experimental		
Week 4	LU decomposition L U decompositions Doolittle's LU decomposition, Doolittle's method with row interchange Theoretical and Experimental		
Week 5	Matrix inverse Finding Matrix Inverse Theoretical and Experimental		
Week 6	Iteration methods Iterative methods for solving linear systems of equations Theoretical and Experimental		
Week 7	Mid-Term Exam		
Week 8	Jacobian iteration. Jacobian iteration, gauss – seidel method, Theoretical and Experimental		
Week 9	gauss – seidel method, Successive over relaxation method (sort method) Theoretical and Experimental		

Week 10	Newton-Raphson's. Newton-Raphson's Method. Theoretical and Experimental
Week 11	Runge-kutta. Runge-kutta Method. Theoretical and Experimental
Week 12	Polynomial, Data Approximation. Interpolation and the Lagrange Polynomial, Data Approximation and Neville's Method, Theoretical and Experimental
Week 13	Differential Equation method Numerical Analysis Methods for Differential Equation Experimental
Week 14	Integral Equation methos. Numerical Analysis Methods for Integral Equation Theoretical and Experimental. Numerical Analysis Methods for Integral Equation
Week 15	Preparatory Week
Week 16	Final Exam

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

ISDC202MODULE DESCRIPTION FORM

Module Information						
Module Title	Des	sign Internet Page	s	Modu	le Delivery	
Module Type		⊠Theory				
Module Code		ISDI404			⊠Lecture ⊠Lab	
ECTS Credits	5				□Tutorial □Practical □Seminar	
SWL (hr/sem)						
Module Level		Fourth	Semester o	r of Delivery		
Administering De	partment	IS	College	Type College Code		
Module Leader	Dr. mohanad gedan	Abdulsalam younis e-mail m		mol	E-mail nanad.abdul@u	: oanbar.edu.iq
Module Leader's	Acad. Title	Lecturer	Lecturer Module Leader's Qualification Ph.D.		Ph.D.	
Module Tutor	mohanad Abd	ulsalam younis gedan	e-mail mohanad.abdul@uoanba		<u>bar.edu.iq</u>	
Peer Reviewer Name Name		e-mail	E-mail			
Scientific Committee Approval Date		2024-2025	Version Nu	Version Number 2.0		

Relation with other Modules					
العلاقة مع المواد الدراسية الأخرى					
Prerequisite module	None	Semester			
Co-requisites module	CUE31012	Semester			

Module Aims, Learning Outcomes and Indicative Contents					
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية				
Module Objectives أهداف المادة الدراسية	The course covers the basics of designing and building web pages, types of web pages, and how to publish pages and websites on the Internet. The course also deals with the use of one of the commonly used web page editing programs in building a personal or educational website.				
Module Learning Outcomes	A-Knowledge and Understanding A1. Explains the basics of designing and building web pages and related matters				

مخرجات التعلم للمادة الدراسية	Concepts, terminology and steps. A2. Explains the types of pages and websites and the languages used in design and building pages and websites A3. Explains the components, specifications, and standards for page design and websites and their interfaces and uses them to evaluate the sites A4. It discusses the most important and famous programs and tools for building and designing websites and pages and compares them. B. Subject-specific skills B1. summer training B2. Graduate Research B3. Scientific Reports
Indicative Contents	
المحتويات الإرشادية	

Learning and Teaching Strategies					
	استراتيجيات التعلم والتعليم				
Sudden daily and continuous weekly tests.					
	Exercises and activities in the classroom.				
Guide students to some websites to benefit from them.					
Strategies	 Providing students with the fundamentals and topics related to thinking. Giving students daily assignments. Encouraging the formation of group discussions during the lecture. Present stimulating questions during the lecture, such as 'how' and 'why. 				

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ استوعا					
Structured SWL (h/sem) 91 Structured SWL (h/w) 3.4					
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	3.9	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.8		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125				

	Modul	e Evaluation			
تقييم المادة الدراسية					
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome	

	Quizzes	1 or 2	6% (6)	5 or 5, 10	
Formative	Assignments	2	6% (6)	At the start	
assessment	Projects / Lab.	1	5% (5)	Continuous	
	Report	1	5% (5)		
Summative	Midterm Exam	2 hr	18% (18)	8	
assessment	60% (60)	3hr	50% (50)	16	All
Total assessment		100% (100			
		Marks)			

Delivery Plan (Weekly Syllabus)				
المنهاج الاسبوعي النظري				
	Material Covered			
Week 1	The basics of designing and building web pages and websites, the main concepts, steps and stages of website design.			
Week 2	Types of websites: fixed-content websites and variable-content websites			
Week 3	Components, specifications and standard standards for designing pages and websites and designing user interfaces and screens			
Week 4	Languages and applications used to design web pages and associated tools Microsoft Word, HTML, FrontPage, Dreamweaver, php, CSS, (CS5 and java scripts, cgi scripts (Linux based) and VB scripts			
Week 5	World Wide Web			
Week 6	World Wide Web -History			
Week 7	Uniform Resource Locator			
Week 8	CSS			
Week 9	JavaScript			
Week 10	Why Study JavaScript?			
Week 11	JavaScript Can Change HTML Content			
Week 12	JavaScript Can Change HTML Attribute Values			
Week 13	JavaScript Functions and Events			
Week 14	Preparatory Week			
Week 15	Final Exam			
Delivery Plan (Weekly Lab. Syllabus)				
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	المنهاج الأسبوعي للمختبر			
	Material Covered			
Week 1				
Week 2				
Week 3				
Week 4				
Week 5				
Week 6				
Week 7				

Learning and Teaching Resources						
مصادر التعلم والتدريس						
	Text	Available in the Library?				
Required Texts	 Designing and Developing Web Applications Using Microsoft .NET Framework 4 by Tony Northrup (Nov 3, 2011) HTML5: Designing Rich Internet Applications (Visualizing the Web) by Matthew David (Jul 28, 2010) Nielsen, J. (2006) Prioritizing Web Usability. Berkeley, CA: New Riders. (0-321- 35031-6) 	Yes				
Recommended	 المحاضرات المقدمة من قبل مدرس المادة 					
Texts	 الكتب المتوفرة في مكتبة الكلية 					
Websites						

Grading Scheme مخطط الدرجات						
Group	Grade	التقدير	Marks %	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success Group (50 - 100)	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required		

ISDC202MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

معلومات المادة الدراسية						
Module Title	Algorithms		<u> </u>	Modu	le Delivery	
Module Type		c			⊠Theory	
Module Code		ISDD402			⊠Lecture □Lab	
ECTS Credits		7	7		□Tutorial □Practical	
SWL (hr/sem)		-			Seminar	-
Module Level		2	Semester of	ter of Delivery Four		Four
Administering De	partment	CSIT	College	Type College Code		
Module Leader	Dr. Mahmou	d Hilal Farhan	e-mail	E-mail:	mah2005hilal@u	Joanbar.edu.iq
Module Leader's	Acad. Title	Lecturer	Module Lea	ider's Qu	alification	Ph.D.
Module Tutor	Module Tutor e-mail					
Peer Reviewer Name			e-mail			
Scientific Committee Approval Date		01/09/2024	Version Nu	mber	2.0	

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				
Module Objectives أهداف المادة الدراسية	The module aims to build a strong foundation in algorithms by introducing their fundamental principles, characteristics, and importance in problem-solving. Learners will explore algorithm analysis techniques, focusing on time and space complexity using Big-O notation. The course emphasizes algorithm design and development, including problem-solving paradigms like recursion. Core topics include searching and sorting algorithms, highlighting their efficiency and real-world applications. Additionally, learners will implement graph-based algorithms for traversal, shortest paths, and network optimization. By the end of the module, students will be proficient in analyzing, designing, and coding efficient algorithms to solve diverse computational problems.				
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 By the end of this module, learners will be able to: Comprehend fundamental concepts of algorithms, their characteristics, and their role in problem-solving. Analyze algorithms using time and space complexity, employing Big-O notation to evaluate performance. Design and develop algorithms using paradigms like recursion, divide-and-conquer, and dynamic programming. Implement and compare searching algorithms (e.g., binary search) and sorting algorithms (e.g., quicksort, mergesort) for efficiency and application. Develop and apply graph algorithms, including traversal (DFS, BFS), shortest path (Solve computational problems with well-optimized algorithmic solutions. 				
Indicative Contents المحتويات الإرشادية	 Indicative content includes the following: 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. Modeling and Design: Use a range of specialist models to model the problems of computer and communication systems, such as deadlock, and design efficient and effective handling procedures. [15 hrs] Creative: Extend knowledge in information systems to construct specific and effective solution to manage and control computer resources. [11 hrs] Presentation: All students should participate in different presentations about different subjects. [11 hrs] 				

Learning and Teaching Strategies						
استراتيجيات التعلم والتعليم						
	1. Providing students with the fundamentals and topics related to thinking.					
Strategies	2. Giving students daily assignments.					
	3. Encouraging the formation of group discussions during the lecture.					
	4. Present stimulating questions during the lecture, such as 'how' and 'why.					

Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا					
Structured SWL (h/sem)		Structured SWL (h/w)			
الحمل الدراسي المنتظم للطالب خلال الفصل		الحمل الدراسي المنتظم للطالب أسبوعيا			
Unstructured SWL (h/sem)		Unstructured SWL (h/w)			
الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا			
Total SWL (h/sem)					
الحمل الدراسي الكلي للطالب خلال الفصل					

Module Evaluation							
تقييم المادة الدراسية							
		Time/Number	Weight (Marks)	Week Due	Relevant Learning		
		inic, italisei		Week Bue	Outcome		
	Quizzes	2	20% (10)	5 and 10	LO #1, #2 and #10, #11		
Formative	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7		
assessment	Projects / Lab.	1	30% (15)	Continuous	All		
	Report	1	10% (5)	13	LO #5, #8 and #10		
Summative	Midterm Exam	2hr	20% (10)	7	LO #1 - #7		
assessment	Final Exam	3hr	50% (50)	16	All		
Total assessme	nt		100% (100 Marks)				

Delivery Plan (Weekly Syllabus)					
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	Introduction : Importance of Algorithms in Computer Science, Analysis of Algorithms.				
Week 2	Introduction : Types of Algorithms, Big O Notation, and Space and Time complexity				
Week 3	Recursion: Recursion Essentials, Types of Recursions, Factorial, Fibonacci Sequence				
Week 4	Recursion: GCD, Integer Power, Tower of Hanoi, Non-attacking Eight Queens				
Week 5	Searching Algorithms: Linear Search, and Binary Search				
Week 6	Sorting Algorithm: Bubble Sort, Insertion Sort, and Selection Sort				
Week 7	Advanced Sorting Algorithm: Quick Sort and Merge Sort				
Week 8	Mid-term Exam				
Week 9	Graph: Introduction to Graphs, Graph Terminology, Types of Graphs, and Cyclic and Acyclic Graphs				
Weels 10	Graph: Connected and Disconnected Graphs, Bipartite Graphs, Complete				
week 10	Graphs, and Sparse and Dense Graphs				
Week 11	Graph Representation: Adjacency Matrix, Adjacency List, Edge List				
Week 12	Graph Traversal Methods: Traversal Strategies, Comparison of Traversal				
WCCK 12	Strategies				
Week 13	Applications of Graph Traversals: Depth-First Search (DFS)				
Week 14	Applications of Graph Traversals: Breadth-First Search (BFS)				
Week 15	Preparatory Week				
Week 16	Final Exam				

Delivery Plan (Weekly Lab. Syllabus)					
المنهاج الاسبوعي للمختبر					
	Material Covered				
Week 1	A set of different programs as introduction				
Week 2	Factorial, Fibonacci Sequence				
Week 3	GCD, Integer Power				
Week 4	Linear Search, and Binary Search				
Week 5	Insertion Sort, and Selection Sort				
Week 6	Bubble Sort				
Week 7	Merge Sort				
Week 8	Quick Sort				
Week 9	Mid-term Exam				
Week 10	Adjacency Matrix,				
Week 11	Adjacency List				
Week 12	Edge List				
Week 13	Depth-First Search (DFS)				
Week 14	Breadth-First Search (BFS)				
Week 15	Preparatory Week				
Week 16	Final Exam				

Learning and Teaching Resources مصادر التعلم والتدريس					
	Text	Available in the Library?			
	Davis, W. S., & Yen, D. C. (Eds.). (2019). The information				
Required Texts	system consultant's handbook: Systems analysis and design.	Yes			
	CRC press.				
Recommended		Vec			
Texts		163			
Websites	https://link.springer.com/book/10.1007/978-1-84628-655-1				

Grading Scheme مخطط الدرجات						
Group	Grade	التقدير	Marks %	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Success Group	C - Good	جيد	70 - 79	Sound work with notable errors		
(50 - 100)	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		

MODULE DESCRIPTOR FORM

Module Information							
Module Title	le Title ENGLISH (2)			Мос	Module Type Type S		
Module Code		UOA004	ECTS Credits		2		
Module Level		UGII	Semester of Delivery			Four	
Administering Department		IS	Faculty CSIT				
Module Leader			e-mail				
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification				
Module Tutor		e-mail					
Peer Reviewer Name		/	e-mail /				
Review Committee Approval		DD/MM/YY	Version N	umber	2.0		

Relation With Other Modules					
Pre-requisites	UOA140				
Co-requisites					
Modu	Module Aims, Learning Outcomes and Indicative Contents				
Module Aims	Enhancing English speaking, reading and writing Memorize a big number of vocabularies Helping students to deal with the English language in easier ways				
Module Learning Outcomes	 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			
Indicative Contents				
	Learning and Teaching Strategies			
Strategies	 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. 			

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

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					
	Available in the Library?				
Required Texts	New Headway Plus Pre-Intermediate Student's Book New Headway Plus Pre-Intermediate Student's WorkBook	Yes/No			
Recommended Texts		Yes/No			
Websites					

Delivery Plan (Weekly Syllabus)				
	Material Covered			
Week 1	Grammar, reading, writing, listening, vocabulary Unit 1: Getting to know you			
Week 2	Grammar, reading, writing, listening, vocabulary. Unit 2: The way we live			
Week 3	Grammar, reading, writing, listening, vocabulary Unit 3:it all went wrong			
Week 4	Grammar, reading, writing, listening, vocabulary. Unit 4: Let's go shopping			
Week 5	Grammar, reading, writing, listening, vocabulary. Unit 5: What do you want to do?			
Week 6	Grammar, reading, writing, listening, vocabulary. Unit 5: What do you want to do?			
Week 7	Mid-Term Exam			
Week 8	Grammar, reading, writing, listening, vocabulary. Unit 6: Tell me what's it like?			
Week 9	Grammar, reading, writing, listening, vocabulary. Unit 7: Famous couples			
Week 10	Grammar, reading, writing, listening, vocabulary. Unit 8: Do's and Don'ts			
Week 11	Grammar, reading, writing, listening, vocabulary. Unit 9: Going places			

Week 12	Grammar, reading, writing, listening, vocabulary. Unit 10: Scared to death
Week 13	Grammar, reading, writing, listening, vocabulary. English for Computer Science
Week 14	listening. Revision of most important topics in the subject
Week 15	Preparatory Week
Week 16	Final Exam

APPENDIX:

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

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information							
Module Title		معلومات ال	Modu	Module Delivery			
Module Type	Type S			⊠Theory			
Module Code	UOA002				⊠Lecture ⊠Lab		
ECTS Credits	2				☐Tutorial □Practical		
SWL (hr/sem)	50						
Module Level		1	Semester o	f Delivery Four		Four	
Administering De	partment	CSIT	College	Type College Code			
Module Leader	Dr. SAAD IBRA	AHIM AHMAD	e-mail	E-mail:	saad.ibrahim@u	oanbar.edu.iq	
Module Leader's	Acad. Title	Lecturer	Module Lea	ader's Qualification Ph.D.		Ph.D.	
Module Tutor	Name (if availa	able)	e-mail E-mail				
Peer Reviewer Name		Name	e-mail	E-mail			
Scientific Committee Approval Date		01/06/2023	Version Nu	nber 1.0			

Relation with other Modules				
	العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester		
Co-requisites module	None	Semester		

Modu	Module Aims, Learning Outcomes and Indicative Contents				
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية				
	١ - تعليم الطلبة على اساسيات اللغة العربية وقواعدها -				
	۲- تعليم الطلبة على كيفية الاعراب				
Madula Ohiastiwaa	٢- ان يتعلم الطالب على قواعد اللغة العربية 3- أن يتمام الطالب كيفية بناء الحمل ماستخباجها للمنمان المطلمين				
	2- ال يتعلم الطائب فيفيه بناء الجمل واستحراجها للعنوان المصلوب ٥- القدرة على استعمال العبارات الصحيحة				
أهداف الماده الدراسية	٦- القدرة على مشاركة الآخرين في الحوار الصحيح				
	٧- تطوير قدرة الطالب على الحوّار والمناقشة في الامور العامة والخاصة				
	٨- تطوير قدرات الطالب في القيام بالأنشطة اللغوية والأدبية				
	٩- تطوير قدرات الطالب على التعامل مع الكتب الرسمية والمخاطبات باللغة السليمة				
Module Learning	(- إدارة المحاط، قرع، تطريق، مرتبط رماقع الحراق المورية				
Outcomes	٦ - المارة المتحكمة، على علو تصبيعي مربعة بوالع الحديد اليولنية. ٢- تكليف الطالب ببعض الانشطة والواجبات				
	٣- المشاركة الفاعلة في قاعة الدرس دليل التزام الطالب وتحمله المسؤولية				
مخرجات التعلم للمادة	٤- الالتزام بالموعد المحدد في تقديم الواجبات والبحث				
الدراسية	٥- الاختبارات الاسبوعية والشهرية ونهاية الفصل تعبر عن الالتزام والتحصيل المعرفي				
Indicative Contents	١- حث الطلبة على الاهتمام بالجانب الصحي				
المحتودات الارشادية	٢- حث الطلبة على الاهتمام بالجانب العلمي				
المحتويات الإرسادية	٣- ارشاد الطلبة في مجال المحافظة على توقيتات المحاضرات				

Learning and Teaching Strategies				
استراتيجيات التعلم والتعليم				
Strategies	١ - المشاركة بالتحضير في قاعة الدرس			
	١- طريفة الاسئلة والأجوبة في قاعة الدرس ٣- الاختبارات الاسبوعية والشهرية ونهاية الفصل			

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ استوعا				
Structured SWL (h/sem) 93 Structured SWL (h/w) 6.2				
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	57	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.8	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150			

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	5% (5)	5 and 10	LO #1, #2 and #10, #11
Formative	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
assessment	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	5% (5)	13	LO #5, #8 and #10
Summative	Midterm Exam	2hr	20% (20)	7	LO #1 - #7
assessment	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

	Delivery Plan (Weekly Syllabus)			
	المنهاج الاسبوعي النظري			
	Material Covered			
Week 1	ظرف الزمان وظرف المكان			
Week 2	الضمير وأقسامه			
Week 3	همزة الوصل			
Week 4	الحروف الصغيرة الزائدة على الرسم			
Week 5	النسبة والاختصاص			
Week 6	الاغراء والتحذير			
Week 7	مفردات الاستهلال في الكتب الرسمية			
Week 8	علامات الترقيم في الكتابة العربية ومواضع استعمالها : تعريفها ، اقسامها ، اهميتها			
Week 9	الفاصلة (،) والفاصلة المنقوطة (؛)			
Week 10	النقطة (.) والنقطتان الرأسيتان (:)			
Week 11	الشارحة أو الوصلة (-) والشارحتان ()			
Week 12	علامة الاستفهام (؟) وعلامة التعجب (!) وعلامة الحذف ()			
Week 13	الأقواس ، والأقواس المزدوجة ، والألوان			
Week 14	الإشارة المائلة (/) والإشارة المائلة المعاكسة (\) واشارة القوة (^) واشارة الضرب (*) واشارة العطف (&)			
Week 15	طرق التخلص من التقاء الساكنين عند القراءة			
Week 16	امتحان			

	Delivery Plan (Weekly Lab. Syllabus)		
	المنهاج الاسبوعي للمختبر		
	Material Covered		
Week 1			
Week 2			
Week 3			
Week 4			
Week 5			
Week 6			
Week 7			

	Learning and Teaching Resources	
	مصادر التعلم والتدريس	
	Text	Available in the Library?
	١ - الكتاب : الحوار في شرح الاجرومية ، تأليف السيد بن حسن الديب ،	
	تقريظ : (أ.د. حمزة بن عبدالله – د. عبدالله بن محد) ، الناشر : (دار الارقم ،	
	مصر) - (دار الرسالة العالمية ، بيروت - لبنان)، الطبعة الاولى ، ١٤٣٣ه -	
	۲۰۱۲ .	
Required Texts	٢- الكتاب : قواعد اللغة العربية المبسطة ، تأليف : عبد اللطيف السعيد ،	Yes
	الطبعة الثالثة- ٢٠٠٦ .	
	٣- الكتاب : إضاءات لغوية في المخاطبات الادارية ، تأليف: صفاء صابر مجيد	
	البياتي مطبعة المجمع العلمي العراقي، بغداد- العراق ، ط١ ، ١٤٤٥هـ ٢٠٢٣م.	
Recommended		Vec
Texts		163
Websites	https://www.os-book.com/OS9/	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
	A - Excellent	امتياز	90 - 100	Outstanding Performance
Success Group (50 - 100)	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0 – 49)	F — Fail	راسب	(0-44)	Considerable amount of work required

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information						
Module Title	e The crimes of the defunct Ba'ath party		Modu	lle Delivery		
Module Type		S			⊠Theory	
Module Code		UOA006			□Lecture □Lab □Intorial □Practical □Seminar	
ECTS Credits		2				
SWL (hr/sem)		50				
Module Level 1 Semester		Semester o	of Delivery 3		3	
Administering De	partment	Type Dept. Code	College	Туре С	ollege Code	
Module Leader	DR. Walaa Ahr	med rashied	e-mail			
Module Leader's	Acad. Title	Asst. Professor	Module Leader's Qualification Ph.D.		Ph.D.	
Module Tutor	Name (if availa	able)	e-mail	e-mail E-mail		
Peer Reviewer Name Name		Name	e-mail	E-mail		
Scientific Committee Approval Date		01/06/2023	Version Nu	mber 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			
Module Objectives	:تغطي هذه الوحدة القضايا التالية			
أهداف المادة الدراسية	مفهوم الجرائم وأنواعها، تعريف الجريمة ومصطلحاتها، أنواع الجرائم الدولية، القرارات الصادرة من المحكمة			
	الجنائية العراقية العليا، الجرائم النفسية والاجتماعية وآثارها، الجرائم البيئية.			
Module Learning				
Outcomes	مفهوم الجرائم وأنواعها، تعريف الجريمة ومصطلحاتها، أنواع الجرائم الدولية، القرارات - الصادرة من المحكمة الجنائية العراقية العليا، الجرائم النفسية والاجتماعية وآثارها، الجرائم البيئية.			
مخرجات التعلم للمادة				
الدراسية				
Indicative Contents	مفهوم الجرائم وأنواعها، تعريف الجريمة ومصطلحاتها، أنواع الجرائم الدولية، القرارات الصادرة من المحكمة الجنائية العلبا، الجرائم النفسية والاجتماعية و آثار ها، الجرائم البيئية.			
المحتويات الإرشادية				

Learning and Teaching Strategies			
استراتيجيات التعلم والتعليم			
Strategies	مفهوم الجرائم وأنواعها، تعريف الجريمة ومصطلحاتها، أنواع الجرائم الدولية، القرارات الصادرة من المحكمة الجنائية العليا، الجرائم النفسية والاجتماعية وآثارها، الجرائم البيئية.		

Student Workload (SWL)				
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا				
Structured SWL (h/sem)	22	Structured SWL (h/w)	U	
الحمل الدراسي المنتظم للطالب خلال الفصل	33	الحمل الدراسي المنتظم للطالب أسبوعيا	١	
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	\ \	
الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	الحمل الدراسي غير المنتظم للطالب أسبوعيا	١	
Total SWL (h/sem)	го			
الحمل الدراسي الكلي للطالب خلال الفصل	50			

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
assessment	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	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
assessment	Final Exam	3hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)					
المنهاج الاسبوعي النظري					
	Material Covered				
Wook 1	جرائم نظام البعث وفق قانون المحكمة الجنائية العراقية العليا لعام ٢٠٠٥				
WEEKI	تعريف الجريمة ومصطلحاتها				
Week 2	أنواع الجرائم				
	جرائم نظام البعث وفق توثيق قانون المحكمة الجنائية العراقية العليا لعام ٢٠٠٥				
Week 3	الجرائم النفسية والاجتماعية وآثارها				
	الجرائم النفسية				
Week 4	الجر ائم النفسية				
	اليات الجرائم النفسية				
Week 5	الجرائم الاجتماعية				
	اثار الجرائم النفسية				
Week 6	عسكرة المجتمع				
	انتهاكات القوانين العراقية				
Week 7	امتحان				
Week 8	الجرائم البيئية لنظام البعث في العراق (التلوث الحربي والاشعاعي وانفجار الالغام)				
Week 9	تدمير المدن والقرى				
Week 10	تجفيف الاهوار				
Week 11	تجريف البساتين				
Week 12	جرائم المقابر الجماعية				
Week 13	احداث مقابر الابادة الجماعية المرتكبة من النظام البعثي في العراق				
Week 14	احداث الانتفاضة الشعبانية عام ١٩٩١ وعلاقتها بالمقابر الجماعية				
Week 15	مقابر الابادة الجماعية لضحايا لمجزرة الانفال للمدة (١٩٨٨-١٩٨٨)				

Learning and Teaching Resources

مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	https://www.uoanbar.edu.iq/ComputerCollege//catalog/INFO	No		
	_depart/lectures/infoS_2_1_baathall_compressed.pdf			
Recommended		No		
Texts				
Websites	https://www.uoanbar.edu.iq/ComputerCollege//catalog/INFO_depart/lectures/infoS_2_1_			
	baathall_compressed.pdf			

Gradi				rading 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	