



Ministry of Higher Education and
Scientific Research - Iraq
AlShaab University
College of Engineering and Information
Technology
Department of Cyber Security Engineering



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	STRUCTURED PROGRAMMING		Module Delivery
Module Type	CORE		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CYSE101		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	UGI	Semester of Delivery	
Administering Department	CYS	College	ENG
Module Leader	Zainab Mohammed Fadhel	e-mail	zainab.mohammed@alshaab.edu.iq
Module Leader's Acad. Title	Assist. Lecturer	Module Leader's Qualification	MS.c.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Ismail Khalil Ali	e-mail	ismail.ali@alshaab.edu.iq
Scientific Committee Approval Date		Version Number	1.0



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Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. Understand the basic concepts of structured programming and how they apply to C++. 2. Develop proficiency in writing modular code using functions and control structures. 3. Gain familiarity with arrays and pointers and their role in data manipulation. 4. Learn techniques for file input/output and error handling. 5. Acquire problem-solving skills by designing and implementing programs using structured programming practices.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Recognize computer systems and programming languages. 2. Build simple programs by using different data types. 3. Define the relational operators and logical expressions. 4. Adding new abilities to program by using selection control structures. 5. Applying repetition control structures in programs. 6. Perform, break, and continue Statements. 7. Recognize functions in C++ program and their types and how to use them in program. 8. Define the Enumeration type with functions. 9. Identify String type with string operations. 10. Using arrays with their types in programs and strings with functions. 11. Applying pointer data types. 12. Apply recursion in functions. 13. Perform simple file I/O streams



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<p>Indicative Contents المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p>The Basic of a C++ Program (Special Symbols, Word Symbols, and Identifiers), Data Types (Simple, Structured and Pointers) [3hrs].</p> <p>Arithmetic Operations, Constants and Variables, Assignment Statement, Input Statements, Output Statements, Program Style, and Form [5hrs].</p> <p>Control Structure (Selection), Logical Operators and Logical Expressions. If and if ...else and Switch Statements [6hrs].</p> <p>Standard Functions and User Defined Functions, Void Function, Reference Parameters and Memory Allocations [4 hrs].</p> <p>The Date Types and The String Types, Array and Strings, One & Two - Dimensional Arrays [6 hrs].</p> <p>C- String (Character Arrays), Comparison, Reading and Writing Strings [5 hrs].</p> <p>Arrays, List Processing (Search, Sort, Insert and Delete an item from the list) [5 hrs].</p> <p>Recursion, Recursive Definitions, problems solving using recursion [4 hrs].</p> <p>Record (Structs), Assignment, Relation Operators, Input/Output [5hrs].</p> <p>Pointers, Classes, and Virtual Functions [4hrs].</p>
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<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>	
<p>Strategies</p>	<p>Engage students with a new programming environment to understand programming language basics, especially C++. Explain memory concepts while guiding students in writing their first program. Demonstrate arithmetic operations and bit manipulation for practical programming use. Illustrate programming control structures (if/else, switch/case) and different loop types. Describe arrays, introduce functions, cover string concepts, and explore pointers' relation to memory. Utilize active learning strategies, assessments, and practical exercises for effective comprehension. This will be achieved through classes, interactive tutorials, asking questions, discussions and solving samples of problems in class and homework.</p>



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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	96	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	6.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation

تقييم المادة الدراسية

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



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Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Structured Programming and C++ concepts. Algorithms, flowchart with examples.
Week 2	Basic Input/Output and Data Types, Variables, and expressions.
Week 3	Arithmetic Operations examples.
Week 4	Control Structures and decision-making with if and switch statements.
Week 5	Looping constructs: for, while, and do-while loops, Nesting control structures.
Week 6	Functions, Defining and calling functions.
Week 7	Function prototypes and parameter passing.
Week 8	Recursion.
Week 9	Arrays, Array declaration, and initialization.
Week 10	Midterm Exam. Accessing array elements.
Week 11	Multidimensional arrays, Array processing.
Week 12	Strings, C-style strings, String manipulation functions.
Week 13	String manipulation functions, String input/output.
Week 14	Structures and Pointers.
Week 15	File input/output operations.



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Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Review of typical C++ Environment and program installation package.
Week 2	Understand the structure of C++ programs.
Week 3	executing examples of Data types - Variable declaration - Constant declaration - Simple Input/Output, I/O Streams.
Week 4	Applying of Arithmetic Operators - Relational Operators - Logical Operators - Assignment Operators.
Week 5	Applying of Increment & Decrement Operators.
Week 6	Using Conditional (Selection) Statement: if statement - if...else statements.
Week 7	Utilizing Nested if statements - Switch statement.
Week 8	Applying Iteration (Repetition) statements: while statement - do/while statement
Week 9	Using for statement - Nested for statement- Break and continue Statements
Week 10	Applying Array: Array declaration - Single dimensional array
Week 11	Executing of Multiple –subscripted Arrays
Week 12	Test String - Array of strings.
Week 13	Understanding Functions: Function Prototypes (declaration) - Calling Function - Function Definition.
Week 14	Applying Passing Arguments functions.
Week 15	Understanding Pointers: Advantage of using pointers - File input/output operations.



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Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	"Structured Programming with C++", Kjell Backman, 2012.	Yes
Recommended Texts	"C++ Programming: From Problem Analysis to Program Design" by D.S. Malik "Programming: Principles and Practice Using C++" by Bjarne Stroustrup	No
Websites		

Grading Scheme

مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	ELECTRICAL CIRCUITS		Module Delivery
Module Type	CORE		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CYSE100		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	UGI	Semester of Delivery	
Administering Department	CYS	College	ENG
Module Leader	Baydaa Hashim Helil	e-mail	baydaa.hashim@alshaab.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	MSc.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date		Version Number	1.0



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Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> 1. Understand the fundamental concepts of electrical circuits, including voltage, current, resistance, and power. 2. Apply Ohm's law and Kirchhoff's laws to analyze and solve DC and AC circuits. 3. Analyze circuits using various circuit analysis techniques, such as nodal analysis and mesh analysis. 4. Apply circuit theorems, such as Thevenin's theorem and Norton's theorem, to simplify complex circuits. 5. Understand the behavior of circuits with reactive elements, such as capacitors and inductors. 6. Analyze the frequency response of circuits and understand basic filter concepts. 7. Develop problem-solving skills and critical thinking abilities through circuit analysis and design.
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Recognize how electricity works in electrical circuits. 2. List the various terms associated with electrical circuits. 3. Summarize what is meant by a basic electric circuit. 4. Discuss the reaction and involvement of atoms in electric circuits. 5. Describe electrical power, charge, and current. 6. Define Ohm's law. 7. Identify the basic circuit elements and their applications. 8. Discuss the operations of sinusoid and phasors in an electric circuit. 9. Discuss the various properties of resistors, capacitors, and inductors. 10. Explain the two Kirchhoff's laws used in circuit analysis. 11. Identify the capacitor and inductor phasor relationship with respect to and current.



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Indicative Contents

المحتويات الإرشادية

Indicative content includes the following.

Part A - Circuit Theory

DC circuits – Current and voltage definitions, Passive sign convention and circuit elements, Combining resistive elements in series and parallel. Kirchhoff's laws and Ohm's laws. Anatomy of a circuit, Network reduction, Introduction to mesh and nodal analysis. [15 hrs]

AC circuits I – Time dependent signals, average and RMS values. Capacitance and inductance, energy storage elements, simple AC steady-state sinusoidal analysis. [15 hrs]

AC Circuits II - Phasor diagrams, definition of complex impedance, AC circuit analysis with complex numbers. [10 hrs]

RL, RC and RLC circuits - Frequency response of RLC circuits, simple filter and band-pass circuits, resonance and Q-factor, use of Bode plots, use of differential equations and their solutions. Time response (natural and step responses). Introduction to second order circuits. [15 hrs]

Revision problem classes [6 hrs]

Part B - Analogue Electronics Fundamentals

Resistive networks, voltage, and current sources, Thevenin and Norton equivalent circuits, current and voltage division, input resistance, output resistance, coupling and decoupling capacitors, maximum power transfer, RMS and power dissipation, current limiting and over voltage protection. [15 hrs]

Components and active devices – Components vs elements and circuit modeling, real and ideal elements. Introduction to sensors and actuators, self-generating vs modulating type sensors, simple circuit interfacing. [7 hrs]



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Diodes and Diode circuits – Diode characteristics and equations, ideal vs real. Signal conditioning, clamping, and clipping, rectification and peak detection, photodiodes, LEDs, Zener diodes, voltage stabilization, voltage reference, power supplies. [15 hrs]

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

The main strategy that will be How to connect Electrical Circuits and know current and voltage of each circuit, chose which Circuit analysis techniques to use, and Comparing different Circuit analysis techniques that give the same result while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities

Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	96	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		



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Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Electrical Circuits, Overview of electrical circuits, Circuit elements and their properties, Circuit variables and units.
Week 2	Basic Laws and Theorems, Ohm's Law, Kirchhoff's Laws (KCL and KVL).
Week 3	Norton's Theorem, Thevenin's Theorem, Superposition Theorem.
Week 4	DC Circuit Analysis, Series and parallel resistive circuits, Voltage, and current division.
Week 5	Node and mesh analysis, Source transformations, Thevenin and Norton equivalent circuits.
Week 6	Capacitors and Inductors, Capacitance and inductance, Series, and parallel combinations.
Week 7	Transient response of RC and RL circuits, Time constants.
Week 8	Sinusoidal Steady-State Analysis, Phasors, and complex impedance.
Week 9	Impedance in series and parallel, AC circuit analysis techniques (nodal and mesh analysis), Power in AC circuits.
Week 10	AC Power Analysis, Power factor and power factor correction, Reactive power, and apparent power.



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Week 11	Power factor improvement techniques, Three-phase circuits.
Week 12	Frequency Response and Filters, Transfer functions, Bode plots.
Week 13	Frequency response of RC, RL, and RLC circuits, Filter concepts (low-pass, high-pass, band-pass, and band-stop).
Week 14	Circuit Theorems and Applications, Maximum power transfer theorem, Millman's theorem.
Week 15	Delta-star and star-delta transformations, Applications of electrical circuits.

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Electrical Devices: To study the function and connection of each electrical instrument.
Week 2	Ohm's Law for Linear Circuit: To study the relation between voltage and currents for linear elements.
Week 3	Kirchoff's Law I: To verify Kirchoff's voltage and current laws for simple D.C circuits.
Week 4	Kirchoff's Law II: To verify Kirchoff's voltage and current laws for simple D.C circuits.
Week 5	Voltage Divider Rule: To verify the voltage divider rule (VDR) for simple D.C circuits.
Week 6	Current Divider Rule: To verify the current divider rule (CDR) for simple D.C circuits.
Week 7	Mesh Analysis: Solve a circuit using mesh analysis.
Week 8	Thevenin's Theorems: To study and apply Thevenin's theorem to a D.C electric circuit.
Week 9	Superposition Theorems: To apply superposition theorems to a D.C electric circuits.
Week 10	Reciprocity Theorems: To apply reciprocity theorems to a D.C electric circuits.
Week 11	Digital Oscilloscope Device and Function Generator Device.
Week 12	Series of RC circuit: To calculate voltage and current value of RC circuit.
Week 13	Series of RLC circuit: To calculate the voltage and current value of RLC circuit.
Week 14	Parallel of RC, RL, and RLC circuit: To measure the current and voltage flow in each element for a parallel RLC circuit.
Week 15	AC Mesh Analysis: To measure the currents of the electrical circuit using mesh analysis.



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Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	“Fundamentals of Electric Circuits”, C.K. Alexander and M.N.O Sadiku, McGraw-Hill Education Basic Engineering Circuit Analysis by J. David Irwin, and Robert M. Nelms, 11th Edition 2015.	Yes
Recommended Texts	“DC Electrical Circuit Analysis”, A Practical Approach Copyright Year: 2020.	No
Websites	https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering	

Grading Scheme

مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	CYBERSECURITY FUNDAMENTALS		Module Delivery
Module Type	CORE		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CYS102		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGI	Semester of Delivery	
Administering Department	CYS	College	ENG
Module Leader	Sora Fahmi Abdalah	e-mail	sora.abdalah@alhsaab.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Ismail Khalil Ali	e-mail	ismail.ali@alshaab.edu.iq
Scientific Committee Approval Date		Version Number	1.0



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Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. Understand the basic concepts and principles of cybersecurity, including confidentiality, integrity, availability, and non-repudiation. 2. Identify and analyze common cyber threats and attacks, such as malware, social engineering, and network-based attacks. 3. Familiarize students with various security technologies, including firewalls, encryption, intrusion detection systems, and secure coding practices. 4. Develop an understanding of the principles and methods of risk management in the context of cybersecurity. 5. Explore legal, ethical, and privacy considerations in cybersecurity. 6. Learn about incident response and disaster recovery procedures. 7. Gain hands-on experience with security tools and techniques through practical exercises and simulations. 8. Develop critical thinking and problem-solving skills to assess and mitigate security risks.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Explain fundamental concepts and principles of cybersecurity. 2. Identify and assess potential security risks and vulnerabilities in systems and networks. 3. Apply appropriate security measures to protect information assets. 4. Analyze and respond to common cyber threats and attacks. 5. Understand legal, ethical, and privacy issues related to cybersecurity. 6. Demonstrate familiarity with security technologies and tools. 7. Collaborate effectively in teams to address security challenges. 8. Develop a proactive mindset towards cybersecurity.
Indicative Contents المحتويات الإرشادية	<p>Indicative content includes the following:</p> <p>Introduction to Cybersecurity Concepts: Overview of cybersecurity, Basic terminology, Understanding the threat landscape (5 hours)</p> <p>Networking Basics: TCP/IP fundamentals, Subnetting, Basic understanding of</p>



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network protocols(10hours).

Operating System Security: Security features in popular operating systems (Windows, Linux, macOS), User account management, File system permissions. (15 hours).

Cryptography: Basics of cryptography, Symmetric and asymmetric encryption, Public and private keys (15 hours).

Web Security: Common web vulnerabilities (Cross-Site Scripting, SQL Injection, etc.), Web application security, HTTPS, and SSL/TLS (15 hours).

Security Policies and Procedures: Creating and implementing security policies, Incident response and management, Disaster recovery planning (10 hours):

Security Technologies: Firewalls, IDS/IPS, Antivirus and anti-malware, VPNs, and secure communications. (15 hours).

Ethical Hacking and Penetration Testing: Introduction to ethical hacking Penetration testing methodologies Tools and techniques for ethical hacking. (15 hours).

Security Awareness and Social Engineering: Importance of security awareness, Common social engineering techniques (10 hours).

Legal and Ethical Considerations: Cyber laws and regulations, Ethical responsibilities in cybersecurity (5 hours)

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

Teaching and learning cybersecurity fundamentals involve a combination of theoretical knowledge, practical skills, and a deep understanding of the evolving threat landscape. Here are some strategies for both teaching and learning cybersecurity fundamentals.



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Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	4.1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	4, 11	LO #1, 2, 3, 4 and 7
	Assignments	2	10% (10)	3, 10	LO # 4, 5, 6 and 7
	Projects	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 3,4,5, 6 and 8
Summative assessment	Midterm Exam	2 hr.	10% (10)	8	LO # 1-6
	Final Exam	3 hr.	50% (60)	16	All
Total assessment			100% (100 Marks)		



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Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Overview of cyber security concepts, threats, and challenges. Importance of cyber security in modern society.
Week 2	Information Security Basics: Confidentiality, Integrity, and Availability (CIA) triad, Threat modeling and risk assessment, Security policies, procedures, and best practices.
Week 3	Network Security: Introduction to network architecture and protocols, Common network attacks (e.g., DoS, DDoS, man-in-the-middle).
Week 4	Understanding Hacking, Vectors that Hackers Exploit, Hacking Techniques.
Week 5	Network security devices and technologies (e.g., Firewalls, IDS/IPS).
Week 6	Operating System Security: Fundamentals of operating systems (e.g., Windows, Linux), User authentication and access control, Secure configuration, and hardening techniques.
Week 7	Cryptography: Basics of encryption, decryption, and cryptographic algorithms, Symmetric and asymmetric encryption, Digital signatures.
Week 8	Web Application Security: Common web vulnerabilities (e.g., SQL injection, XSS, CSRF), Secure coding practices, Web application security testing and assessment.
Week 9	Malware and Threats: Types of malwares (e.g., viruses, worms, ransomware), Social engineering techniques.
Week 10	Incident response and handling.
Week 11	Security Management and Governance: Security policies and compliance, Security frameworks and standards (e.g., ISO 27001, NIST), Security awareness and training.
Week 12	Emerging Trends in Cyber Security: Cloud computing security and Mobile security.
Week 13	Internet of Things (IoT) security.
Week 14	Ethical and Legal Aspects: Ethical hacking and penetration testing, Cybersecurity laws, regulations, and privacy concerns.
Week 15	Digital forensics and incident investigation.



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Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	"Cybersecurity: The Beginner's Guide" by Raef Meeuwisse.	Yes
Recommended Texts	"Principles of Computer Security: CompTIA Security+ and Beyond" by Wm. Arthur Conklin, Greg White, Dwayne Williams, Chuck Cothren, and Roger L. Davis.	No
Websites		

Grading Scheme

منظّم الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	MATHEMATICS I		Module Delivery
Module Type	BASIC		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CREQ100		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGI	Semester of Delivery	
Administering Department	CYS	College	ENG
Module Leader	Nagham Mohammed Abdulridha	e-mail	nagham.mohammad@alshaab.edu.iq
Module Leader's Acad. Title	Assist. Lecturer	Module Leader's Qualification	MSc.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date		Version Number	1.0



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Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	This module aims to provide students with an understanding of, and competence in the use of, mathematical techniques that are relevant to the solution of engineering problems. It will also give students a firm foundation from which to develop solutions to a wider and deeper range of engineering problems that they will encounter throughout their undergraduate engineering program of study.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Preliminaries: Explain mathematical coordinate systems, representing line, slope of line, shifting of lines 2. Vectors: Demonstrate an understanding of vectors in planes and space. 3. Function: Demonstrate an understanding of the function and related variables, range and domain of the function, types of functions, and their graphs. 4. Limits and Continuity: Demonstrate an understanding of the fundamental concepts of calculus including limits, continuity, and differentiability. 5. Derivatives: Apply the techniques of differentiation to different types of functions including transcendental functions 6. Applications of derivatives: Apply the techniques of differentiation to solve problems involving rates of change, linearization, curve sketching, mean value theorem, and Initial value problem. 7. Complex numbers: Demonstrate an understanding of complex numbers with basic operations and their mathematical and graphical representations including Euler's Formula
Indicative Contents المحتويات الإرشادية	The topics listed under the indicative content below are the underpinning areas of knowledge and understanding that will be obtained from successful completion of the module. The mathematical topics are illustrated in the context of relevant engineering scenarios.



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- **Preliminaries** Cartesian coordinates, polar coordinates, slope of lines, angle of inclination.
- **Functions**, types of functions, graph of the functions, domain and range of function
- **Review of trigonometric function:** graph of trigonometric function, range and domain of trigonometric functions, identities.
- **Limits and Continuity:** Properties, limits involving infinity, continuity.
- **Transcendental functions:** Inverse function, graph of inverse function, Logarithmic and exponential functions, inverse trigonometric functions, hyperbolic functions, inverse hyperbolic functions.
- **Derivatives:** Definition, rules of derivative, Implicit differentiation, L hospital's rule, derivative of inverse functions
- **Applications of derivatives:** rate of change problems, Relative maximum and relative minimum, Curve sketching with 1st and 2nd derivative, Linearization, Mean value theorem, Initial value problem,.
- **Complex numbers:** Basic definitions. The geometric representations of the complex numbers, argand diagram, Basic operations with complex numbers, Euler's Formula
- **Vectors:** Introduction to vectors

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

Begin in Mathematics I, then employ a range of teaching strategies to ensure first-year engineering students fully grasp the various mathematical concepts. Instructional methods include interactive lectures, where core mathematical principles are explained in detail, and practical problem-solving sessions to provide hands-on learning experiences. Collaborative group work encourages peer-to-peer learning and reinforces understanding through shared insights. Regular formative assessments will be conducted to monitor students' understanding of the material, and feedback will be promptly given to guide their learning process. Instructors will maintain office hours for personalized support, and online resources will be available to supplement classroom instruction. Emphasis will be placed on relating mathematical concepts to real-world engineering applications to make the learning experience more relevant and engaging. These strategies aim to develop students' critical thinking skills,



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enhance their problem-solving abilities, and prepare them for advanced engineering studies.

Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	4.1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 4, 6 and 7
	Assignments	2	10% (10)	3, 12	LO # 3, 4, 5 and 7
	Projects	1	10% (10)	Continuous	
	Report	1	10% (10)	14	LO # 4, 5, 6, and 7
Summative assessment	Midterm Exam	2 hr.	10% (10)	8	LO # 1-6
	Final Exam	3 hr.	50% (60)	16	All
Total assessment			100% (100 Marks)		



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Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Cartesian coordinates, slope of lines, angle of inclination, functions, types of functions, graph of the functions, domain, and range ,identifying functions, Circles, and parabolas
Week 2	Introduction to vectors.
Week 3	Preliminaries: Sum, differences, products, and quotients of Composite functions, shifting a graph of a function, scaling and reflecting a graph of a function, Absolute value.
Week 4	Review of trigonometric function: graph of trigonometric function, range and domain, identities
Week 5	Limits and Continuity: Properties, limits involving infinity, continuity.
Week 6	Transcendental functions: Inverse function, graph of inverse function, Logarithmic and exponential functions, trigonometric functions, inverse trigonometric functions, hyperbolic functions, inverse hyperbolic functions
Week 7	Derivatives: Definition, rules of derivative, slopes, tangent lines, chain rule, derivative of trigonometric functions, Implicit differentiation, L hospital's rule.
Week 8	Derivative of inverse trigonometric functions, derivative of exponential and logarithmic functions.
Week 9	Applications of derivatives: Speed and acceleration, Relative maximum, and relative minimum.
Week 10	Curve sketching with 1st and 2nd derivative.
Week 11	Linearization.
Week 12	Rate of change problems.
Week 13	Mean value theorem -Initial value problem.
Week 14	Complex numbers: Basic definitions. The geometric representations of the complex numbers, argand diagram.
Week 15	Basic operations with complex numbers, Euler's Formula.



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Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	George B. Thomas and Ross L. Finney, "Calculus and Analytic Geometry, Addison- Wesley.	Yes
Recommended Texts	Thomas Calculus, by George B. Thomas, Jr, Eleventh Edition Media Upgrade 2008. Calculus Early Transcendental (Sixth Edition) James Stewart.	No
Websites		

Grading Scheme

منظّم الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	COMPUTER SKILLS		Module Delivery
Module Type	CORE		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CYSE103		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	UGI	Semester of Delivery	
Administering Department	CYS	College	ENG
Module Leader	Ahmed Abdulkareem Hussein	e-mail	ahmed.abdulkaraem@alshaab.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Ismail Khalil Ali	e-mail	ismail.ali@alshaab.edu.iq
Scientific Committee Approval Date		Version Number	1.0



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Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. To develop a solid foundation in computer literacy and proficiency. 2. To familiarize students with common software applications used for word processing, spreadsheets, presentations, and data analysis. 3. To provide hands-on experience with operating systems, file management, and basic troubleshooting techniques. 4. To enhance students' understanding of internet usage, web browsing, and online communication. 5. To raise awareness about data security, privacy, and ethical considerations in the digital world. 6. To improve students' information retrieval and evaluation skills. 7. To promote effective collaboration and communication using technology.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Demonstrate proficiency in using various software applications, including word processing, spreadsheets, and presentations. 2. Utilize operating systems and perform basic troubleshooting tasks. 3. Effectively manage files and folders on a computer system. 4. Navigate the internet, search for information, and evaluate online resources. 5. Apply appropriate strategies for data security and privacy protection. 6. Communicate and collaborate using digital tools and technologies. 7. Understand and follow ethical guidelines in the use of computer technology.
Indicative Contents المحتويات الإرشادية	<p>Indicative content includes the following.</p> <ul style="list-style-type: none"> • Course Introduction (4 hrs) • Working with GUI operating systems with a focus on Microsoft Windows OS (8 hrs)



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- Microsoft Office Word (MS Word) (16 hrs)
- Microsoft Office Excel (MS Excel) (16 hrs)
- Microsoft Office PowerPoint (MS PowerPoint) (16 hrs)

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

In this course, students are guided by:

- Using different examples.
- Using different styles of discussion that aim to connect the theoretical and practical sides.
- Asking questions and giving exercises that require analysis and conclusions related to lectures.
- Encourage students to participate in discussions and do practical work.
- Encourage students to work in groups.

Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	36	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	2.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		



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Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Computer, What is Computer, History, Types of operating systems, Computer Applications, Components of Computer, Concepts of Hardware and Software.
Week 2	Basics of Operating System, Linux, Windows, Windows installation.
Week 3	Windows Interface, Desktop Settings. Task Icons, Bars, and Control Panel File and Directory Management.
Week 4	Introduction to Internet, & Web Browsers Downloading & Uploading, Search Engines.
Week 5	Basics of Email, How to Use Email, Create Account, Sending & Receiving emails.
Week 6	Microsoft Word Introduction, Word Application Interface, Basic Formatting, etc.
Week 7	Microsoft Word (Home, Insert, Page Layout).
Week 8	Microsoft Word (References, View, and Review Printing Documents).
Week 9	Microsoft Office Word: Adding Tables and Inserting Graphic Objects



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Week 10	Microsoft Office Excel: Getting Started with Excel و Sorting, Selecting and Subtotaling data.
Week 11	Microsoft Office Excel: Formulas and Functions.
Week 12	Microsoft Office Excel: Worksheet Formatting and Presentation.
Week 13	Microsoft Excel: Introduction to Excel, Worksheet, Formatting.
Week 14	Microsoft Excel: Advanced formatting, Printing worksheets, etc.
Week 15	Microsoft PowerPoint (power point application, power point interface). How to Create slide, Edit, Format, or Delete Slides, make a Slideshow, Save Presentation, Slide Transition and Object Animation, Printing of Presentation.

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Overview of computers and their basic components and OS installation.
Week 2	Windows Interface, Desktop Settings. Task Icons, Bars, and Control Panel File and Directory Management.
Week 3	The basic use of Microsoft Windows operating system
Week 4	Introduction to Internet, & Web Browsers Downloading & Uploading, Search Engines.
Week 5	Basics of Email, How to Use Email, Create Account, Sending & Receiving emails.
Week 6	Microsoft Word Introduction, Word Application Interface, Basic Formatting, etc.
Week 7	Microsoft Word (Home, Insert, Page Layout).
Week 8	Microsoft Word (References, View, and Review Printing Documents).
Week 9	Microsoft Office Word: Adding Tables and Inserting Graphic Objects
Week 10	Microsoft Office Excel: Getting Started with Excel و Sorting, Selecting and Subtotaling data.
Week 11	Microsoft Office Excel: Formulas and Functions.
Week 12	Microsoft Office Excel: Worksheet Formatting and Presentation.
Week 13	Microsoft Excel: Introduction to Excel, Worksheet, Formatting.



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Week 14	Microsoft Excel: Advanced formatting, Printing worksheets, etc.
Week 15	Microsoft Power point (power point application, power point interface). How to Create slide, Edit, Format, or Delete Slides, make a Slideshow, Save Presentation, Slide Transition and Object Animation, Printing of Presentation.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	“ICDL Module 3”, David Varley, 2006.	Yes
Recommended Texts	<ul style="list-style-type: none"> Joan Lambert and Steve Lambert, Windows 10 step by step, 1st Edition 2015. Joan Lambert and Curtis Frye, Microsoft Office 2016 step by step, 1st Edition 2015. 	No
Websites	Microsoft Help, https://support.microsoft.com/en-us/products Learn Microsoft Office, https://www.goskills.com/Microsoft-Office	



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Grading Scheme

مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	ENGLISH LANGUAGE I		Module Delivery
Module Type	SUPPORT		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	UREQ100		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGI	Semester of Delivery	
Administering Department	CYS	College	ENG
Module Leader	Zahraa Muhsin Abed Ali	e-mail	zahra.muhsin@alshaab.edu.iq
Module Leader's Acad. Title	Assist. Lecturer	Module Leader's Qualification	MSc.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date		Version Number	1.0



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Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. Training the students to acquire imperative communicative competence in specialist Engineering English. 2. Improve the language proficiency of the students in English with emphasis on listening, speaking, reading, and writing skills. 3. Enables the students to study and comprehend the prescribed lessons and subjects more effectively relating to their theoretical and practical components. 4. To develop the communication skills of the students in both formal and informal situations.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Acquiring text analysis skills, highlighting effective, crucial information quickly and efficiently. 2. Building essay writing and Reporting skills. 3. Identifying words and phrases that help them with paraphrasing texts and ideas. 4. Acquiring imperative communicative competence in engineering-specific English shall enable students to work confidently and effectively. 5. The material is designed to focus on listening, speaking, reading, and writing on topics common to all fields of Engineering such as monitoring and control, procedures and precautions, and Engineering design, which shall help students gain practical knowledge and practice of specialized English for engineers. It is suitable to be used in an engineering environment both practically and professionally. 6. The authentic activities based on everyday engineering situations from describing technical problems and Solutions to working with drawings make this material practical and motivating to students.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following:



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These materials have been chosen for their importance to user interaction. They consolidate learning from the pre-requisites and lay the foundations for further study, particularly specialized English for all engineering fields. The English Language specification offers a common core of analytical methods, topics and skills that have proven value, set within a flexible program that allows colleges to shape learning and teaching in ways appropriate to their contexts, and constituencies. It has the additional benefit of being co-teachable with our associate professors even when they are not specialized in teaching English, thus widening options for faculty and students, ensuring that we are able to deliver a program of study that is coherent and manageable.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

Assessment is based on hand-in assignments, written exam, Case study, Quizzes, seminars, Practical testing, and Online testing. some sampling activities that are interesting to the students.

Student Workload (SWL)

الحمل الدراسي للطلاب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	33	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	17	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	1.1
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	50		



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Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Idioms, Spoken English, Terms in English.
Week 2	Tenses of English, present simple.
Week 3	Comprehension: Story 1(Terms, Vocabularies, précis, Tie of Sentences, Composition). Present continuous tense.
Week 4	Comprehension: Story 2(Terms, Vocabularies, précis, Tie of Sentences, Composition), past simple.
Week 5	Comprehension: Story 3(Terms, Vocabularies, précis, Tie of Sentences, Composition), past continues.
Week 6	Comprehension: Story 4(Terms, Vocabularies, précis, Tie of Sentences, Composition), future simple.
Week 7	Comprehension: Story 5(Terms, Vocabularies, précis, Tie of Sentences, Composition).
Week 8	Comprehension: Story 5(Terms, Vocabularies, précis, Tie of Sentences, Composition).



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Week 9	Comprehension: Story 6(Terms, Vocabularies, précis, Tie of Sentences, Composition), present perfect tense.
Week 10	Comprehension: Story 7(Terms, Vocabularies, précis, Tie of Sentences, Composition), present perfect continuous.
Week 11	Comprehension: Story 8(Terms, Vocabularies, précis, Tie of Sentences, Composition), past perfect.
Week 12	Comprehension: Story 9(Terms, Vocabularies, précis, Tie of Sentences, Composition) past perfect continues.
Week 13	Comprehension: Story 10(Terms, Vocabularies, précis, Tie of Sentences, Composition, passive voice.
Week 14	Comprehension: Story11 (Terms, Vocabularies, précis, Tie of Sentences, Composition). Report writing.
Week 15	Comprehension: Story11 (Terms, Vocabularies, précis, Tie of Sentences, Composition). Report writing.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	G. Alexander, "Practice and Progress", Published by Longmans.	Yes
Recommended Texts	1. The Academic Guide for English (A handout by Lect. Zena Ibrahim & Asst. Lect. Sheelan S. Kamal) 2. Cambridge Professional English in Use. 2. Cambridge English for Engineering.	No
Websites	1. https://www.ets.org/toefl.html . 2. https://www.bbc.co.uk/learningenglish/	



Ministry of Higher Education and
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AlShaab University
College of Engineering and Information
Technology
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Grading Scheme

مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.