



Ministry of Higher Education and
Scientific Research - Iraq
University of Alshaab
College of Engineering & Information Technology
Department of Artificial Intelligence
Engineering



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 checked="" type="checkbox"/> Seminar	
Module Code	CREQ101		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGI		
Administering Department	All Departments	College	College of Engineering & Information Technology
Module Leader	Kussay Khalid Mohammed	e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor	Doctor	e-mail	
Peer Reviewer Name	Alaa Alhamami	e-mail	Alaa.hussein@alshaab.edu.iq
Review Committee Approval	12/6/2023	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, Indicative Contents and Brief Description

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية مع وصف مختصر

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 plane and space. 3. Function: Demonstrate an understanding of function and related variables, range and domain of 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 at 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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	<ul style="list-style-type: none"> • 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
Course Description	<p>This course lays the foundation for a robust understanding of mathematical concepts that underpin the various disciplines within engineering. It covers a breadth of topics ranging from coordinate systems, slopes of lines, and angles of inclination to the introduction of two- and three-dimensional coordinate systems. A focus is also given to the understanding and manipulation of functions, including domain and range determination and function composition. The course incorporates a substantial overview of trigonometry, limits, continuity, derivatives, including their applications in real-world engineering contexts in addition to complex numbers and their mathematical representation. By the end of the course, students will have a sound understanding of these principles, preparing them for more advanced engineering courses in their respective fields.</p>
<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>	
Strategies	<p>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.</p>



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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, 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	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	4.8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

		Time (hr)	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	3	10%	1,2,3,4	LO #1, 2
	Onsite Assignments	4	10%	5,6,7,8	LO #3 and 4
	Online Assignments	4	10%	9,10,14	LO # 5 and #6
	Report	4	10%	11,12,13,15	LO # 7 and #8
Summative assessment	Midterm Exam	2	10%	7	LO # 1,4
	Final Exam	3	50%	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

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Week 15	Basic operations with complex numbers, Euler's Formula
Week 16	Final Exam

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, Elevnth Edition Media Upgrade 2008 Calculus Early Transcendental (Sixth Edition) James Stewart	Yes
Websites		

APPENDIX:

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



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

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Electrical Circuits		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> xTutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CREQ101		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI	Semester of Delivery	
Administering Department	BSc – COMM	College	College of Engineering & Information Technology
Module Leader	Manal Jameel Abdulameer	e-mail	Manal.alkindi@alshaab.edu.iq
Module Leader's Acad. Title	Assist. Prof	Module Leader's Qualification	Doctor
Module Tutor	None	e-mail	None
Peer Reviewer Name	Alaa Al-Hamami	e-mail	Alaa.hussein@alshaab.edu.iq



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Scientific Committee Approval Date	12/06/2023	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 Objectives أهداف المادة الدراسية	<ol style="list-style-type: none">1. This course deals with the basic concept of electrical circuits.2. This is the basic subject for all electrical and electronic circuits.3. To understand voltage, current and power from a given circuit.4. To develop problem solving skills and understanding of circuit theory through the application of techniques.5. To understand Kirchhoff's current and voltage Laws problems.6. To perform mesh and Nodal analysis.7. To perform Maximum Power Transfer and reciprocity theorems8. To understand Magnetic Circuits
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<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 Kirchoff's laws used in circuit analysis.



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	<p>11. Identify the capacitor and inductor phasor relationship with respect to voltage and current.</p> <p>12. Understanding Maximum Power Transfer and reciprocity theorems</p> <p>13. Understanding Magnetic Circuits</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p><u>Part A - Basic Concepts</u> Introduction, Systems of Units, Charge and Current, Voltage, Power and Energy, Circuit Elements [18 hrs]</p> <p><u>Part B - Basic Laws</u> Ohm's Law, Nodes, Branches, and Loops, Kirchhoff's Laws, Series Resistors and Voltage Division, Parallel Resistors and Current Division, Wye-Delta Transformations. [15 hrs]</p> <p><u>Part C - Methods of Analysis</u> Nodal Analysis, Nodal Analysis with Voltage Sources, Mesh Analysis, Mesh Analysis with Current Sources [12 hrs]</p> <p><u>Part D - Circuit Theorems</u> Superposition, Source Transformation, Thevenin's Theorem, Norton's Theorem, Maximum Power Transfer [24 hrs] Revision problem classes [6 hrs]</p>

<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>	
<p>Strategies</p>	<p>1. Behavior management Behavior management strategies foster an atmosphere of mutual respect, reduce disruptive behavior and ensure students have an equal opportunity to fulfill their potential in the classroom. It's crucial to provide them with both a positive and productive learning environment. Examples include establishing a reward system with an interactive chart where students move up or down depending on their performance and behavior in class.</p> <p>2. Blended learning With a blended learning teaching strategy, technology is incorporated with traditional learning. This allows students to work at their own pace, research their ideas and become</p>



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more physically engaged during lessons. Examples include providing interactive tablets or whiteboards with engaging activities and posting classwork online for easier access.

3. Cooperative learning

Group work is a cooperative learning strategy that allows students with various learning levels to work together. By encouraging them to express their own ideas and listen to others' ideas as a group, you help students develop communication and critical thinking skills. Examples include solving math puzzles together, performing skits as a team or working on group presentations.

4. Formative assessment

A formative assessment is used periodically to monitor student learning incrementally. This can more effectively measure the process of learning as opposed to end-of-unit tests and can help you to improve your teaching methods throughout the year. Examples of this teaching strategy include self-evaluation exercises and summarizing a topic in multiple ways.

5. Student-led teaching

The student-led teaching strategy lets students become the teacher. In a classroom with learners at different levels, you can better engage those learning faster by showing them how to teach and give feedback to their peers. They may team-teach or work in groups to teach a new topic. Examples include letting a student teach an entire lesson or having advanced writers lead a peer-editing session as well as provide constructive criticism.

Student Workload (SWL)

الحمل الدراسي للطلاب محسوب لـ 15 اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	71	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	5.1
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
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Formative assessment	Quizzes	2	10% (10)	5 and 12	LO #1, #4 and #8, #11
	Assignments	2	10% (10)	3 and 13	LO #3, #4 and #10, #14
	Projects / Lab. Report	1	10% (10)	Continuous	All
	Report	1	10% (10)	14	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	8	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	<ul style="list-style-type: none"> Electrical Engineering: An Overview The International System of Units conversions (metric prefixes) Free electrons, electric charge & types of electric materials Definition of: electric current, electric current flowing through a conductor, electric voltage
Week 2	<ul style="list-style-type: none"> Polarity of electric voltage across an element The difference between electric potentials and electric voltage Linear and non-linear elements: resistances, conductance, capacitances, and inductances Definition of: Power and energy, Sources (Independent Source & Dependent Source)
Week 3	<ul style="list-style-type: none"> Ohm's Law Definition of: Nodes, Branches, and Loops
Week 4	<ul style="list-style-type: none"> Series & parallel connections of resistors Series Resistors and Voltage Division Parallel Resistors and Current Division
Week 5	<ul style="list-style-type: none"> Short and Open Circuits Star-Delta Transformations
Week 6	<ul style="list-style-type: none"> Kirchhoff's Laws
Week 7	<ul style="list-style-type: none"> Methods of Analysis: Nodal Analysis
Week 8	Mid-term Exam
Week 9	<ul style="list-style-type: none"> Methods of Analysis: Mesh Analysis
Week 10	<ul style="list-style-type: none"> Circuit Theorems: Superposition, Source Transformation



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Week 11	<ul style="list-style-type: none"> • Circuit Theorems: Source Transformation
Week 12	<ul style="list-style-type: none"> • Circuit Theorems: Thevenin's Theorem
Week 13	<ul style="list-style-type: none"> • Circuit Theorems: Norton's Theorem, Derivations of Thevenin's and Norton's Theorems
Week 14	<ul style="list-style-type: none"> • Circuit Theorems: Maximum Power Transfer Theorem • Millman's Theorem, Substitution Theorem, Reciprocity Theorem
Week 15	<ul style="list-style-type: none"> • Magnetic Circuits: Definitions, Composite Series Magnetic Circuit, Ampere-turns , Comparison Between Magnetic and Electric Circuits, Parallel Magnetic Circuits, Series-Parallel Magnetic Circuits, Leakage Flux and Hopkinson's Leakage Coefficient, Magnetization Curves.
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Introduction to Lab. Equipment's and How to use Avometer
Week 2	Lab 2: How to measure DC Voltage, current, power and resistor
Week 3	Lab 3: Resistor Color Code
Week 4	Lab 4: Ohm's Law
Week 5	Lab 5: Series, parallel and series- parallel circuits
Week 6	Lab 6: Star-Delta Transformations
Week 7	Lab 7: Kirchhoff's Voltage and Current Laws
Week 8	Lab 8: Nodal Analysis
Week 9	Lab 9: Mesh Analysis
Week 10	Lab 10: Superposition theorems
Week 11	Lab 11: Thevenin's theorems
Week 12	Lab 12: Norton's theorems
Week 13	Lab 13: Maximum Power Transfer Theorem
Week 14	Lab 14: Composite Series Magnetic Circuit



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Week 15 Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	<ul style="list-style-type: none"> Theraja, B. L. A Textbook of Electrical Technology-Volume I (Basic Electrical Engineering). Vol. 1. S. Chand Publishing, 2005. C.K. Alexander and M.N.O Sadiku, Fundamentals of Electric Circuits, McGraw-Hill Education, Fifth Edition, 2013 	Yes
Recommended Texts	<ul style="list-style-type: none"> Allan H. Robbins and Wilhelm C. Miller, Circuit analysis: Theory and practice, Cengage Learning, Fifth Edition, 2013. Nilsson, James William, Electric circuits, Pearson Education India, 2008. 	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	Engineering Drawing		Module Delivery
Module Type	Basic		<input type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	ARIE101		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	UGI	Semester of Delivery	
Administering Department	BSc – COMM	College	College of Engineering & Information Technology
Module Leader	Noor Muhsin abed Ali	e-mail	Noor.muhsin@alshaab.edu.iq
Module Leader's Acad. Title	MS.c	Module Leader's Qualification	MSC
Module Tutor	None	e-mail	None
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	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 Objectives أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. Understanding the basis for any geometric shape or system, so teaching and training the student on engineering drawing will be able to perform engineering drawing or understand and read engineering drawings. 2. To have the knowledge of interpretation of dimensions of different quadrant projections. 3.To understand the basic principles of engineering drawing 4.To have the knowledge of generating the pictorial views 5.To understand the development of surfaces 6.To understand projections concept 7.To use the drawing tools professionally 8.To grew the ability of free hand sketching
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1.Understanding the components of an engineering drawing and how to implement an engineering drawing 2.Learn engineering drawing and complete simple and complex engineering drawings 3.Prepare and understand drawings. 4. Identify various D curves used in Engineering Drawing and their applications. 5.Use the principles of orthographic projections. 6.By studying about projections of solids, students will be able to visualize three-dimensional objects and that will enable them to design new products. 7. Design and fabricate surfaces of different shapes. 8. Represent the objects in three-dimensional appearances.



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<p>Indicative Contents المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p><u>Part A - Introduction</u> Introduction to Engineering Drawing and Drawing Instruments, Conventions, Viewing of engineering drawing sheets, Method of Folding of printed Drawing sheet , Drawing board, T-square, Drafter (Drafting M/c), Set squares, Protector, Drawing Instrument Box (Compass, Dividers, Scale, and Diagonal Scales etc.), pencils of different grades, Drawing pins/ Clips. [18 hrs]</p> <p><u>Part B - Free hand drawing</u> Lines, polygons, ellipse etc., Geometrical figures and blocks with dimension, Transferring measurement from the given object to the free hand sketches., Solid objects, Cube, Cuboids, Cone, Prism, Pyramid, Frustum of Cone with dimensions, Free hand drawing of hand tools and measuring tools, simple fasteners (nuts, bolts, rivets etc.) trade related sketches. [16 hrs]</p> <p><u>Part C - Method of presentation of Engineering Drawing</u> Pictorial View, Orthographic View [12 hrs]. Symbolic representation – different symbols used in the trades: Fastener (Rivets, Bolts and Nuts), Bars and profile sections, Weld, Brazed and soldered joints, Electrical and electronics element, Piping joints and fitting [18hrs.]</p> <p><u>Part D - Projections</u> Concept of axes plane and quadrant, Orthographic projections, Method of first angle and third angle projections (definition and difference), Symbol of 1st angle and 3rd angle projection in 3rd angle [24 hrs] Orthographic projection from isometric projection, Reading of fabrication drawing Sign and Symbols of Electrical, Electronics and related trades, Sketch of Electrical and Electronics/ trade related components, Electrical and Electronics wiring diagram/ trade related Layout diagram, Electrical earthling diagram – Drawing the schematic diagram of plate and pipe earthling., Electrical, Electronics/ trade related circuit diagram, Block diagram of Instruments/ equipment of related trade [8 hrs]</p>
<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>	
<p>Strategies</p>	<p>1. Behavior management Behavior management strategies foster an atmosphere of mutual respect, reduce disruptive behavior and ensure students have an equal opportunity to fulfill their potential in the classroom. It's crucial to provide them with both a positive and</p>



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productive learning environment. Examples include establishing a reward system with an interactive chart where students move up or down depending on their performance and behavior in class.

2. Blended learning

With a blended learning teaching strategy, technology is incorporated with traditional learning. This allows students to work at their own pace, research their ideas and become more physically engaged during lessons. Examples include providing interactive tablets or whiteboards with engaging activities and posting classwork online for easier access.

3. Cooperative learning

Group work is a cooperative learning strategy that allows students with various learning levels to work together. By encouraging them to express their own ideas and listen to others' ideas as a group, you help students develop communication and critical thinking skills. Examples include solving math puzzles together, performing skits as a team or working on group presentations.

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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.5



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Total SWL (h/sem) الحمل الدراسي الكلي للطلاب 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)	5 and 7	LO #1, #2 and #3
	Assignments	2	10% (10)	8 and 11	LO#4 and #5, #6
	Homework	4	10%	11 and 13	LO#7, #8
	Lab	4	10%	Continues	All
Summative assessment	Midterm Exam	2hr	10% (10)	12	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي العملي	
Material Covered	
Week 1	Engineering Drawing – Introduction <ul style="list-style-type: none"> • Introduction to Engineering Drawing and Drawing Instruments • Conventions • Viewing of engineering drawing sheets • Method of Folding of printed Drawing sheet
Week 2	Drawing Instrument <ul style="list-style-type: none"> • Drawing board, T-square, Drafter (Drafting M/c), Set squares, Protector, Drawing Instrument Box (Compass, Dividers, Scale, and Diagonal Scales etc.), pencils of different grades, Drawing pins/ Clips.



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Week 3	<p>Free hand drawing</p> <ul style="list-style-type: none"> • Lines, polygons, ellipse etc. • Geometrical figures and blocks with dimension. • Transferring measurement from the given object to the free hand sketches. • Solid objects – Cube, Cuboids, Cone, Prism, Pyramid, Frustum of Cone with dimensions. • Free hand drawing of hand tools and measuring tools, simple fasteners (nuts, bolts, rivets etc.) trade related sketches
Week 4	<p>Lines</p> <ul style="list-style-type: none"> • Definition, types and applications in drawing as per BIS: 46-2003 • Classification of lines (Hidden, center, construction, extension, Dimension, Section) • Drawing lines of given length (Straight, curved). • Drawing of parallel lines, perpendicular line • Methods of Division of line segment
Week 5	<p>Drawing of Geometrical figures:</p> <ul style="list-style-type: none"> • Definition, nomenclature and practice of – • Angle: Measurement and its types, method of bisecting. • Triangle: different types • Rectangle, Square, Rhombus, Parallelogram. • Circle and its elements • Different polygon and their values of included angles. Inscribed and circumscribed polygons
Week 6	<p>Dimensioning , Lettering & Numbering</p> <ul style="list-style-type: none"> • Single Stroke, Double Stroke, Inclined. • Definition, types and methods of dimensioning (functional, non-functional and auxiliary) • Position of dimensioning (Unidirectional, Aligned) • Types of arrowheads • Leader line with text • Symbols preceding the value of dimension and dimensional tolerance
Week 7	<p>Sizes and layout of drawing sheets</p> <ul style="list-style-type: none"> • Selection of sizes • Title Block, its position and content • Item Reference on Drawing Sheet (Item list)
Week 8	<p>Method of presentation of Engineering Drawing</p> <ul style="list-style-type: none"> • Pictorial View • Orthographic View



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	<ul style="list-style-type: none"> • Isometric View
Week 9	<p>Symbolic representation – different symbols used in the trades</p> <ul style="list-style-type: none"> • Fastener (Rivets, Bolts and Nuts) • Bars and profile sections • Weld, Brazed and soldered joints • Electrical and electronics element • Piping joints and fitting
Week 10	<p>Projections</p> <ul style="list-style-type: none"> • Concept of axes plane and quadrant • Orthographic projections • Method of first angle and third angle projections (definition and difference) • Symbol of 1st angle and 3rd angle projection in 3rd angle
Week 11	<ul style="list-style-type: none"> • Orthographic projection from isometric projection • Reading of fabrication drawing
Week 12	Mid – term Exam
Week 13	<ul style="list-style-type: none"> • Sign and Symbols of Electrical, Electronics and related trades • Sketch of Electrical and Electronics/ trade related components • Electrical and Electronics wiring diagram/ trade related Layout diagram
Week 14	<ul style="list-style-type: none"> • Electrical earthing diagram – Drawing the schematic diagram of plate and pipe earthing. • Electrical, Electronics/ trade related circuit diagram • Block diagram of Instruments/ equipment of related trade
Week 15	<ul style="list-style-type: none"> • Maps, and Charts, Reading Datasheets and Manuals
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	<ul style="list-style-type: none"> • الرسم الهندسي, عبد الرسول الخفاف, 2003 • تمارين في الرسم الهندسي (متوفر في مكتبة كلية الهندسة) تاليف: سليمان توفيق احمد الناشر: دار الاعصار العلمي للنشر والتوزيع / الاردن 	Yes



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Recommended Texts	Colin H. Simmons, Dennis E. Maguire, Manual Of Engineering Drawing to British and International Standards, Elsevier Newnes, second edition, 2004, Typeset by Replika Press Pvt Ltd, India, Printed and bound in Great Britain	No
Websites	http://www.kutub.info/library	

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	Computer Skills		Module Delivery	
Module Type	Basic		<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	ARIE102			
ECTS Credits	3			
SWL (hr/sem)	75			
Module Level	UGI	Semester of Delivery		1
Administering Department	All Departments	College	College of Engineering & Information Technology	
Module Leader	Ali Falah Hassan		e-mail	Ali.falah@alshaab.edu.iq
Module Leader's Acad. Title	Assist. Lecturer	Module Leader's Qualification	MS.c	
Module Tutor	None		e-mail	None
Peer Reviewer Name	Alaa Al-Hamami	e-mail	Alaa.hussein@alshaab.edu.iq	
Scientific Committee Approval Date	12/6/2023	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 Objectives أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. Training students on the basics of using the computer and providing them with the necessary skills to deal with the computer with high efficiency. 2. Assisting the student in distinguishing and developing his scientific and artistic abilities. 3. Enriching the student's skills to be able to deal with the computer with high efficiency. 4. Providing students with a way to use other modern technologies related to the educational process.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Enabling the student to know the concepts of information technology by learning the basics of the computer. 2. Enabling the student to know about the use of GUI operating systems. 3. Enabling the student to deal with the skills of using the operating system (Windows operating system) through exploring, customizing, and controlling its settings. 4. Enabling the student to work on the word processing program (Microsoft Word). 5. Enabling the student to work on the spreadsheet program (Microsoft Excel). 6. Enabling the student to work on the presentation program (Microsoft PowerPoint).
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) • Microsoft Office Word (MS Word) (16 hrs) • Microsoft Office Excel (MS Excel) (16 hrs) • Microsoft Office PowerPoint (MS PowerPoint) (16 hrs)



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Description

Overview of computers: basic components, applications. GUI operating systems: Microsoft Windows operating system. Microsoft Office Word: getting started with Word, editing a document and formatting text and paragraphs, adding tables and inserting graphic objects, controlling page appearance and proofing a document. Microsoft Office Excel: getting started with Excel, sorting, selecting and subtotaling data, formulas and functions, worksheet formatting and presentation. Microsoft Office PowerPoint: getting started with PowerPoint, developing a PowerPoint presentation, adding graphical elements to your presentation and modifying objects in your presentation, adding graphical elements, tables and charts to your presentation and modifying objects in your presentation, prepare to deliver your presentation.

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 the practical work.
- Encourage students to work in groups.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem)	64	Structured SWL (h/w)	3
الحمل الدراسي المنتظم للطالب خلال الفصل		الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem)	11	Unstructured SWL (h/w)	2.4
الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem)	100		
الحمل الدراسي الكلي للطالب خلال الفصل			



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Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	6 and 12	LO #1 to #3 and #4 to #6
	Assignments	2	10% (10)	2 and 13	LO #3 to #6
	Projects / Lab. Report	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #3, #4 and #6
Summative assessment	Midterm Exam	2hr	10% (10)	9	LO #1 - #5
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Overview of computers and their basic components and applications
Week 2	Operating computer using GUI operating systems
Week 3	The basic use of Microsoft Windows operating system
Week 4	
Week 5	
Week 6	Microsoft Office Word: Getting Started with Word
Week 7	Microsoft Office Word: Editing a Document and Formatting Text and Paragraphs
Week 8	Microsoft Office Excel: Getting Started with Excel
Week 9	Microsoft Office Excel: Sorting, Selecting and Subtotaling data
Week 10	Microsoft Office Excel: Formulas and Functions
Week 11	Microsoft Office Excel: Worksheet Formatting and Presentation



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Week 12	Microsoft Office PowerPoint: Getting Started with PowerPoint
Week 13	Microsoft Office PowerPoint: Developing a PowerPoint Presentation, Adding Graphical Elements to Your Presentation and Modifying Objects in Your Presentation
Week 14	Microsoft Office PowerPoint: Adding Graphical Elements, tables and charts to Your Presentation and Modifying Objects in Your Presentation
Week 15	Microsoft Office PowerPoint: Prepare to deliver your presentation
Week 16	Preparatory week before the final exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Introduction to the lab and get started with use of computer
Week 2	Basic use of Windows operating system
Week 3	General view of Windows OS tools with a focus on Microsoft Office tools
Week 4	Microsoft Office Word: Getting Started with Word
Week 5	Microsoft Office Word: Editing a Document and Formatting Text and Paragraphs
Week 6	Microsoft Office Word: Adding Tables and Inserting Graphic Objects
Week 7	Microsoft Office Word: Controlling Page Appearance and Proofing a Document
Week 8	Microsoft Office Excel: Getting Started with Excel
Week 9	Microsoft Office Excel: Sorting, Selecting and Subtotaling data
Week 10	Microsoft Office Excel: Formulas and Functions
Week 11	Microsoft Office Excel: Worksheet Formatting and Presentation
Week 12	Microsoft Office PowerPoint: Getting Started with PowerPoint
Week 13	Microsoft Office PowerPoint: Developing a PowerPoint Presentation, Adding Graphical Elements to Your Presentation and Modifying Objects in Your Presentation
Week 14	Microsoft Office PowerPoint: Adding Graphical Elements, tables and charts to Your Presentation and Modifying Objects in Your Presentation
Week 15	Microsoft Office PowerPoint: Prepare to deliver your presentation



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Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required 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. 	Yes
Recommended Texts	<ul style="list-style-type: none"> Michael Miller, ABSOLUTE BEGINNER'S GUIDE TO COMPUTER BASICS, 5th EDITION, QUE Indianapolis, Indiana 46240, 2010. Paul McFedries, TEACH YOURSELF VISUALLY MICROSOFT WINDOWS 10, ANNIVERSARY 	No
Websites	Microsoft Help, https://support.microsoft.com/en-us/products Learn Microsoft Office, https://www.goskills.com/Microsoft-Office	

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
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Computer 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 type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CREQ103		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGI	Semester of Delivery	
Administering Department	BSc - COMM	College	College of Engineering & Information Technology
Module Leader	Alaa Hussein Al-Hamami	e-mail	Alaa.hussein@alshaab.edu.iq
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Professor



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Module Tutor	Wadhah Abdul Hamza)	e-mail	E-mail
Peer Reviewer Name	Alaa Al-Hamami	e-mail	Alaa.hussein@alshaab.edu.iq
Scientific Committee Approval Date	13/06/2023	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	<p>The objective of this course is an introduction to Python programming and the environment. Topics include program design, testing and debugging, as well as data types, variables, constants, operators, and a loop structure. It is in the computing and problem-solving field with the help of Python programming language defiled by PyCham environment window. This language is important for the cipher security engineering course and artificial intelligence course.</p> <p>Upon completion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Understand computers and classify programming languages. 2. Write simple Python program. 3. Learn data types, variables, arithmetic operators, assignment and input statements. 4. Learn relational operators and logical expressions. 5. Using selection in program like if/if...else, block statements , switch structures. 6. Develop executable programs by using repetition control structures: While Looping, Do...while Looping, For Looping, Break and continue Statements Define and use functions in Pytong program. 7. Learn Enumeration type with Functions 8. Learn how to define String type with string Operations
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	<p>9. Learn define and use arrays and strings 10. Define pointer data types, Address of Operator (&) , Pointer Variables 11. Perform simple file I/O streams.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>1. Recognize computer system and programming languages . 2. Build simple program 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 and classes. 12. Apply recursion in functions 13. Perform simple file I/O streams</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Introduction to computers and Classification of programming languages (1 hours), Introduction to problem solving (3 hours), Computers and Programming Languages (3 hours), Processing a Python Program (3 hours). Basics of a Python Program, Data Types, Variables, Arithmetic Operators (3 hours) , Assignment and Input Statements (3 hours). Input / Output, I/O Streams (3 hours), Predefined Functions, Output Formatting (3 hours), Control Structures I (Selection): Relational Operators, Logical Expressions (3 hours), If/If...else, Block Statements (3 hours), Switch Structures (3 hours), Control Structures I (Repetition) : While Looping, Do...while Looping (3 hours), For Looping (3 hours), Break and continue Statements (3 hours), Preparatory week before the final Exam User-Defined Functions (6 hours), User-defined simple data types and the string type (6 hours), Arrays and strings (6 hours), Pointers, Classes (3 hours), File Input/Output (3 hours).</p>
<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>	
<p>Strategies</p>	



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The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, homework's and examples. Practical examples help students to understand the course material.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	71	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	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)	8 and 13	LO #1 to #4 and #6 to #8
	Assignments	3	10% (10)	4, 7 and 11	LO #2, #3, #4, #5 and #7,#8,#9
	Projects / Lab.	1	20% (20)	Continuous	All
	Report	0			
Summative assessment	Midterm Exam	2 hr	10% (10)	9	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 python programming and installation, why using python, python connected environment type, library's, python code (print), experiment with example code.
Week 2	Python data type and variables, data type, variable types and experiment function, string type.
Week 3	List of mathematic operations, methods, library of math.
Week 4	Python list and operation.
Week 5	Python 2D list.
Week 6	More list function examples.
Week 7	Python tubes.
Week 8	Python function and conditional.
Week 9	Python function and conditional 2.
Week 10	Mid-term Exam
Week 11	Conditional statements (if-else), more examples with (if-else).
Week 12	Loops (for, while, do-while).
Week 13	Python set, power.
Week 14	Python class and function.
Week 15	Final exams.

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Review of typical Python Environment and program instillation package



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Week 2	Understand structure of Python 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 -Bitwise Operators - Misc Operators.
Week 6	Using Conditional (Selection) Statement: if statement - if...else statements
Week 7	Utilizing Nested if statements - Switch statement
Week 8	Appling 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 Python class and function.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	1. Core Python programming, W.Chun, Pearson, Introduction to Python, Kenneth A. Lambert, Cengage, Learning Python, Mark Lutz, Orielly.	Yes
Recommended Texts	<ul style="list-style-type: none"> • Programming and problem solving with Python: comprehensive sixth edition, Nell Dale and Chip Weems. • Computer Science Textbook class XI, First Edition, 2019. • Python Primer Plus, Sixth Edition 	No
Websites	<ul style="list-style-type: none"> ▪ http://www.cplusplus.com/doc/tutorial/ 	



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Grading Scheme

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python.pdf



python.pdf



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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Introduction To Artificial Intelligence		Module Delivery	
Module Type	BASIC		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	ARIE103			
ECTS Credits	4			
SWL (hr/sem)	100			
Module Level	UGI	Semester of Delivery		1
Administering Department	BSc - COMM	College	Collage of Engineering	
Module Leader	Yousif Khalaf Yousif		e-mail	Yousif.khalaf@alshaab.edu.iq
Module Leader's Acad. Title	Assist. Prof.	Module Leader's Qualification	University president	
Module Tutor	Wadhah Abdul Hamza		e-mail	None
Peer Reviewer Name	Alaa Al-Hamami	e-mail	Alaa.hussein@alshaab.edu.iq	
Scientific Committee Approval Date	6/12/2023	Version Number	1.0	
Relation with other Modules				



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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	<p>أ- الاهداف المعرفية</p> <ol style="list-style-type: none">1- أفهام وتعليم الطالب مفاهيم ومبادئ مادة الانظمة الذكية.2- تمكين الطلبة من الحصول على المعرفة والفهم الكامل لكافة مهارات الحاسوب وتطبيقاته .3- افهام الطالب وتعريفه بكافة المهارات نظريا وعمليا وتعريفه بكافة أجزاء أنظمة الذكاء الاصطناعي التي يتم تطبيق المهارة بالإضافة الى التطبيق العملي على الماكينة لكل طالب ولكافة المهارات.4- تمكين الطلبة من الحصول على المعرفة والفهم لكل أجزاء الانظمة الذكية وفائدة كل جزء .5- تمكين الطلبة من الحصول على المعرفة والفهم على تشخيص انواع الاعمال التي تنجزها التطبيقات الذكية وطريقة العمل عليها . <p>ب – الأهداف المهاراتية الخاصة بالبرنامج</p> <ol style="list-style-type: none">1 - شرح المهارات بالتفصيل وتطبيقها على الحاسوب عمليا والتأكيد على الطلبة بضرورة الالتزام بقواعد السلامة الاخلاقية والفكرية.2 - تزودهم بمعلومات وطرق حل المشاكل العملية المتعلقة بجميع المهارات.3 - يتم عرض مواضيع كافة التطبيقات عمليا ونظريا.4 - يتم التركيز على العملي في المهارات وضرورة مشاركة الطالب في العملي.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<p>مخرجات التعلم للمادة الدراسية</p> <ol style="list-style-type: none">1- بناء الطالب علميا وعمليا وتأهيله للعمل في مجال هندسة الذكاء الاصطناعي.2- بناء وإعداد الطالب نفسيا ليقوم بدوره كمهندس يعتمد عليه في هذا المجال.3- بناء طلبة قادرين على التنافس مع مهندسين اخرين لفرص العمل والحصول على المقاعد المطلوبة في اكمال دراسات عليا.4- قابلية التقديم لاختبارات خارجية من قبل هيئات محلية أو أقليمية أو عالمية لغرض اكمال الدراسة او التعيين.5- حث الطالب على الإبداع والتفكير في مشاريع التخصص ومواكبة التطور الحاصل في هذا المجال.6- تزويد الطلبة بمهارات علمية وعملية ومهارات ذاتية تمكنه من حل المشاكل العملية والتعامل معها بمفاهيم علمية.
Indicative Contents المحتويات الإرشادية	<p>المحتويات الإرشادية اولا:- السلامة الفكرية.</p>



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يتم تعريف الطالب بقواعد وإجراءات السلامة الفكرية لجميع المهارات وجميع الأقسام لاجل سلامة
المستخدم من مخاطر التعامل مع هذه الأدوات (3 ساعات).

ثانياً:- مهارة القياسات.

شرح نظري لمهارة القياسات وتعريف الطالب بجميع العدد والأدوات المستخدمة في عملية القياس
بالتفصيل ومن ثم يتم التطبيق العملي لمهارة القياسات حيث يقوم كل طالب بإجراء عملية القياس لمختلف
الأدوات إضافة إلى تسليم ومناقشة التقارير الخاصة بالمهارة (6 ساعات)
ثالثاً:- مهارة اللحام .

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

* امتحانات يومية بأسئلة عملية وعلمية.
* درجات مشاركة لاسئلة المناقشة الصعبة بين الطلاب .
* وضع درجات للواجبات البيتية والتقارير المكلفة بهم.
* امتحانات فصلية للمنهج الدراسي إضافة إلى امتحان نصف السنة والامتحان النهائي.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	36	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري والعملي

	Material Covered
Week 1	شرح نظري وعملي لمبادئ البرمجة الذكية وبيان خطورة عدم الالتزام بها على حياة المجتمع.
Week 2	شرح نظري لمفردات الانظمة الذكية والانظمة المتضمنة.
Week 3	تطبيق عملي لتطبيقات الذكاء الاصطناعي في الصحة.
Week 4	شرح نظري لمهارة الانظمة الذكية في التطبيقات الخطرة.
Week 5	شرح مبسط عن قدرات الانظمة الذكية.
Week 6	شرح نظري وعملي لتطبيقات الانظمة الذكية في اتخاذ القرار
Week 7	أستخدام الخوارزميات في الانظمة الذكية.
Week 8	Data Mining > تقديم فكرة عن تنقيب البيانات
Week 9	تطبيق عملي لتصميم نظام ذكي.
Week 10	شرح نظري لمقارنة عقل الانسان مع الحاسوب.
Week 11	تقديم فكرة عن النظام الذكي التوليدي.
Week 12	محاورة الانسان مع الانظمة الذكية.
Week 13	تقديم شرح عن تأثير الانظمة الذكية في التعليم.
Week 14	شرح نظري لمهارة الاجهزة الموجودة في الجامعات وتطويرها.



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Week 15	اجراء محاورة بين الانظمة التوليدية والطلاب..
Week 16	شرح التطبيقات التي تساهم في تفعيل الانظمة الذكية.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	The Internet.	Yes
Recommended Texts	MECH6028 - Mechanical Workshop Practice 2 - CIT Modules	No
Websites	https://www.coursera.org/browse/workshop-and-engineering/workshop -	

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



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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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	حقوق الانسان والديمقراطية	Module Delivery	
Module Type	B	<input checked="" type="checkbox"/> Theory	
Module Code	U101	<input type="checkbox"/> Lecture	
ECTS Credits	2	<input type="checkbox"/> Lab	
SWL (hr/sem)	30	<input type="checkbox"/> Tutorial	
		<input type="checkbox"/> Practical	
		<input type="checkbox"/> Seminar	
Module Level	UGI	Semester of Delivery	2
Administering Department	All Departments	College	College of Engineering



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Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	12/06/2023	Version Number	

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1- يتعلم الطالب خلال السنة الدراسية أساسيات حقوق الانسان والديمقراطية ما حقوقه كيف يدافع عنها بالطرق القانونية وماهي ضماناتها الداخلية والدولية. 2-استحصال المعرفة في مجال الديمقراطية وأنواع أنظمتها واثرها على حقوق الانسان .
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3- تنمية شخصية الطالب وتعزيز وعيهم في الأنظمة السياسية الديمقراطية وتفصيلها وكيفية تطبيقها على أرض الواقع وأهمية أن يكون فعال في المجتمع من خلال احترامه لحقوق الآخرين ومعرفة أن الحقوق والحريات تنتهي عند بداية حقوقهم وحرياتهم ويؤدي واجباته بدلاً من اكتساب الحقوق فقط.
4- تعزيز ثقافة السلام القائمة على العدل والمساواة.

Module Learning Outcomes

مخرجات التعلم للمادة الدراسية

- 1- تمكين الطالب من معرفة أساسيات الدفاع عن حقوقه وحقوق الآخرين بعد معرفتها ومعرفة أهميتها له وللمجتمع بصورة عامة وأيضاً معرفه كل شخص حدود حقوقه وحريته .
- 2- تمكين الطالب في المشاركة السياسية وذلك من خلال معرفته بأهمية مشاركته في الانتخابات وتأثير هذه المشاركة على سير الانتخابات وتشكيل السلطة فيما بعد.
- 3- معرفه الطالب ضمانات حقوقه وحرياته وماهي مصادرهما.
- 4- معرفة الفرق بين الحقوق والحريات.
- 5- تمكين الطالب من معرفة ماهي المفهوم العلمي للديمقراطية وماهي جذورها وانواعها واشكالها.
- 6- يتعلم الطالب كيف يؤثر النظام الديمقراطي على حقوق الانسان وماهي العلاقة بينها.
- 7- ادراك الطالب ضرورة ان يكون مواطن فعال في المجتمع ايضاً معرفه شروط الناخب وشروط المرشح للانتخابات.
- 8- معرفه أنظمة الانتخابات وايهما افضل.
- 9- فهم الطالب للقانون الدولي لحقوق الانسان وايضاً معرفة مختصرة عن المنظمات الدولية والية عملها كالأأم المتحدة ومنظمة الصليب الأحمر وغيرها.

Indicative Contents

المحتويات الإرشادية

1 الجزء الأول -تعريف حقوق الانسان وحقوق الانسان في الحضارات القديمة.
(تعريف الحق وتعريف الانسان ومعرفة أهمية حقوق الانسان بالنسبة للإنسان والمجتمع أيضاً دراسة حقوق الانسان في الحضارات كالحضارة المصرية والعراقية واليونانية والرومانية)(4ساعات)



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الجزء الثاني معرف حقوق الانسان في الأديان السماوية واهمها الإسلام (٢ساعة)
مصادر حقوق الانسان تتضمن (مصادر دولية كالإعلان العالمي لحقوق الانسان والعهدان
الدوليان والمصادر الإقليمية التي تشمل الاتفاقيات الإقليمية كالاتفاقية الاوربية والأمريكية
والدستور) (٢ساعة)
ضمانات حقوق الانسان (كالضمانات الدستورية والقانونية) (٢ساعة)
الاتفاقيات الدولية والإقليمية لحقوق الانسان (٢ساعة)
الحريات العامة وانواعها والمقارنة فيما بينها (٢ساعة)
مستقبل حقوق الانسان والعولمة وحقوق الانسان (٢ساعة)
تعريف وتاريخ وأنواع الديمقراطية (دراسة تعريف ونشأة وتطور الديمقراطية مبادئها
وانواعها كالديمقراطية المباشرة وغير المباشرة والنظام الرئاسي والبرلماني) (٦ساعات)
تعريف الانتخاب وشروطه وأنواع النظم الانتخابية وتعريف المجلس النيابي (٦ساعات)
العلاقة بين الديمقراطية وحقوق الانسان (٢ساعة)

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

- 1-زيادة وعي الطالب بأهمية معرفه حقوقه وواجباته اتجاه المجتمع وعلاقة حقوق الانسان بالنظام الديمقراطي
- 2-ثقافة عامة في مجموعة من المجالات ومنها المجال القانوني و السياسي والاجتماعي ورفع ثقة الطالب بنفسه من خلال ربط المادة النظرية بالواقع العملي

Student Workload (SWL)



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الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا

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

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	3	15% (15)	5, 7 and 10	LO #1, #2 #,3,and #6 #7#8
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Report	1	15% (15)	13	LO #5, #8 and #9
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري



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	Material Covered
Week 1	محاضرة تعريفية عن المادة واهميتها ..
Week 2	تعريف الحق والانسان وحقوق الانسان واهمية حقوق الانسان ,حقوق الانسان في الدين الإسلامي والحضارات القديمة.
Week 3	مصادر حقوق الانسان الدولية والإقليمية والمحلية.
Week 4	ضمانات حقوق الانسان الدستورية والقانونية وضمانات حقوق الانسان على الصعيد الدولي.
Week5	ضمانات حقوق الانسان في الإسلام
Week 6	دور المنظمات الإقليمية في حماية حقوق الانسان.
Week 7	خصائص حقوق الانسان وتعريف الحريات العامة وانواعه والمقارنة بينها وبين الحقوق القانون الدولي لحقوق الانسان والقانون الدولي الإنساني ومنظمة الصليب الأحمر.
Week 8	مستقبل حقوق الانسان وسبل تطويرها .
Week 9	العولمة وحقوق الانسان .
Week 10	تعريف الديمقراطية وتطورها التاريخي ومبادئها . الديمقراطية بين العالمية والخصوصية . اشكال الديمقراطية / الديمقراطية المباشرة.
Week 11	الديمقراطية شبه المباشرة والديمقراطية التمثيلية / اركان النظام التمثيلي / اشكال النظام التمثيلي.
Week 12	المجلس النيابي وانواعه / الانتخاب وشروطه / هيئة الناخبين.
Week 13	تنظيم عملية الانتخاب / تحديد الدوائر الانتخابية / القوائم الانتخابية / المرشحات / الحملة الانتخابية / التصويت .
Week 14	نظم الانتخابات.
Week 15	علاقة الديمقراطية بحقوق الانسان وكيفية التأثير والتأثر فيما بينها.
Week 16	الامتحان النهائي

Learning and Teaching Resources



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مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	حقوق الانسان والطفل والديمقراطية / تأليف ماهر صالح علاوي ورياض عزيز هادي وعلي عبد الرزاق محمد واخرون / العاتك / بيروت / ٢٠٠٩	نعم
Recommended Texts	عباس الدليمي / حقوق الانسان الفكر والممارسة فخري رشيد ،صلاح ياسين /المنظمات الدولية / العاتك لصناعة الكتاب / بغداد عصام العطية / القانون الدولي العام / المكتبة القانونية بغداد/2012	لا
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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