MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Mechanics and properties of matters (1)			**Module Delivery**	
Module Type	Core			☒ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**PHY 1101**				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Physics		**College**	Science	
Module Leader	Dr. Muthafar F. Al-Hilli		**e-mail**	muthafar.jamil@sc.uobaghdad.edu.iq	
Module Leader's Acad. Title	Assistant Professor		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Dr. Muthafar F. Al-Hilli Dr. Zainab Raheem Muslim Dr. Amer Abbas Ramadhan		**e-mail**	**muthafar.jamil@sc.uobaghdad.edu.iq** Zainab.muslim@sc.uobaghdad.edu.iq Amer.ramadhan@sc.uobaghdad.edu.iq	
Peer Reviewer Name	Dr. Raad Mohammed Saleh Al-Haddad		**e-mail**	raad.m@sc.uobaghdad.edu.iq	
Scientific Committee Approval Date	01/06/2023		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Not applicable	**Semester**	
Co-requisites module	Not applicable	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Ascertain to overcome the difficulties/limitations of students in understanding Newtonian mechanics. 2. To assist the students, possess good comprehension of the mechanics applications being able to meet the needs of the labor market. 3. One of the primary goals of this module is to assist students to develop a conceptual understanding of strategies in solving mechanic exercises. 4. Devise suitable aids and teaching methods in thinking, analysis and adaptation with the development of technologies, to keep up with the expansion of human needs. 5. Create graduates specialized in physics to contribute in the development of the society.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	***A. Cognitive goals*** The expected learning outcomes of the students are 1- To enable the students to understand the basics of motion of objects for different types of motion 2- Describe the motion of objects in terms of their position, velocity and acceleration using words, graphs and equations. 3- Deals with the vectors notations and solving different problems in two and three dimensions 4- State and explain the Newton's three laws in motion and solve word and mathematical problems in mechanics and soling the equation of motion of the object. 5- To create students able to obtain knowledge and understand the laws of mechanics along with its practical applications to analyze the interpretation of physical phenomena. ***B.*** The skills goals special to the program 1- Sound scientific research skills and constructive scientific discussions and expressing of opinions 2- Usage and development skills. 3- Thinking skills and enabling the student to understand and solve scientific problems related to the laws of physics. 4- Skills and ability to apply the theoretical and practical scientific experience, gained from his studies, in the areas of practical life; taking into account industrial and commercial constraints.
Indicative Contents المحتويات الإرشادية	This course focuses on Newtonian classical mechanics describes motion in terms of space and time. We define motion in one dimension which includes displacement, velocity, and acceleration. It's imperative that we study both graphical and algebraic properties of vectors, motion in two and three dimensions and laws of motion which deal with forces and masses

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	94	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	56	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	4	10% (10)	3,6 and 10,13	LO #1, #2 and #10, #11
	Assignments	4	10% (10)	2,5 and 10, 13	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)	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	Motion in One Dimension, displacement, velocity and speed, instantaneous velocity and speed.
Week 2	Average acceleration and instantaneous acceleration, Kinematic equations for one-dimensional motion with constant acceleration.
Week 3	Derivation of the equations of linear motion with uniform acceleration, freely falling objects.
Week 4	The equations of freely falling objects, Vectors, coordinate systems.
Week 5	Scalar and vectors, some properties of vectors, commutative law of addition, negative of a vector.
Week 6	Subtracting vectors, multiplying a vector by scalar, components of a vector.
Week 7	The product of vectors, scalar product (dot product), vector product (cross product) .
Week 8	**Midterm exam**
Week 9	Motion in two and three dimensions and laws of motion, Position and displacement.
Week 10	Average velocity and instantaneous velocity, Average acceleration and instantaneous acceleration.
Week 11	Projectiles motion, Uniform circular motion.
Week 12	The Laws of Motion, Force, Newton's first law.
Week 13	Newton's second law, Newton's third law.
Week 14	Some applications of newton's laws, The force of gravity and weight.
Week 15	Normal force, Tension force, Frictional force.
Week 16	**Final exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Introduction to the experiments and devices in the mechanics Lab.
Week 2	Introduction to the measurement instruments ; Vernier, micrometer, stop watch, balance, and thermometer
Week 3	Introduction to graph, slope and conversion of units.
Week 4	Simple pendulum
Week 5	Flywheel
Week 6	Standing waves using melds experiment
Week 7	Equilibrium of forces.
Week 8	**Midterm exam**
Week 9	Measurement of the Young's modulus for a helical spring
Week 10	Measurement of terrestrial acceleration using helical spring
Week 11	Terrestrial acceleration using U-tube
Week 12	Archimedes' experiment

Week 13	A micro lab. Experiment using a matlab computer program
Week 14	A mechanical experiment using Arduino micro controller
Week 15	A practical review.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Fundamentals of Physics, by Halliday,Resnick and Wallker.	
Recommended Texts	Fundamentals of University Physics, by Alenso and Finn, Vol.1.	
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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Electricity			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**PHY 1102**				
ECTS Credits	6				
SWL (hr/sem)	150				
Module Level	UGI		**Semester of Delivery**	1	
Administering Department	Physics		**College**	Science	
Module Leader	Dr. Amal K. Jassim		**e-mail**	amal.jassim@sc.uobaghdad.edu.iq	
Module Leader's Acad. Title	Professor		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Dr. Thamir H. Khalaf		**e-mail**	Thamir.Khalaf@sc.uobaghdad.edu.iq	
Scientific Committee Approval Date	01/06/2023		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Not applicable	**Semester**	
Co-requisites module	Not applicable	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Teaching students the basic principles of physics. 2. Preparing specialists in the field of general physics and its practical applications, which bears the responsibility of studying the country's need for development and progress and capable of meeting the needs of the job market in state institutions and industry sectors. 3. Preparing an educated generation armed with science and adopts it as a sound basis to bring about radical changes and assign scientific knowledge and scientific methods in thinking, analysis and adaptation with the development of technologies, to keep up with the expansion of human needs.

	4. Effective contribution for deepening and documenting the connection of the university with the society through the implementation of advisory counseling, training and development of teaching and administrative staff. 5. The service of preparing graduates specialized in physics who contribute to development in the country. 6. Meeting the needs of various sectors with highly qualified personals in the field of physics. Encouraging the distinguished in this field to work as teaching assistants in the department to be part of the academic teaching staff in the future.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- The student will be able to explain the effects of matter on electric and magnetic fields and the boundary conditions for such fields. 2-The student will be able to match electrical quantities/properties with the various units of measure used in electrical science and identify the elements of an electrical circuit. 3- The student will be able to distinguish AC and DC electricity, identify the useful qualities of each, note which devices are associated with each, and describe the role of power inverters. 4-The student will be able to Identify and use vector calculus and other mathematical techniques to analyse and express scenarios in electricity and magnetism.
Indicative Contents المحتويات الإرشادية	

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	94	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	56	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	10% (10)	5,7 and 10,12	LO #1, #2 and #10, #11
	Assignments	4	10% (10)	2,4 and 9,11	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	**Charge and the Electric field:** Properties of electric charges, Charging by induction, Coulomb law, Charge is conserved.
Week 2	Electric field, A point charge in an electric field, A dipole in an electric, Electric field of a continuous charge distribution, Motion of charged particles in a uniform electric field.
Week 3	**Gauss's law:** Flux of the electric field, Gauss's law.
Week 4	Gauss's law and Coulomb's law, Conductors in electrostatic equilibrium.
Week 5	**Electric Potential:** Potential and the electric field, A group of point charges.
Week 6	Potential due to a dipole, Electric potential due to a continuous charge distribution.
Week 7	Electric potential due to a continuous charge distribution, Electric potential energy Electric potential due to a charged conductor in equilibrium.
Week 8	**Midterm Exam**
Week 9	**Capacitors and dielectrics:** Capacitance, Calculating capacitance
Week 10	Parallel-Plate Capacitors, Cylindrical and spherical capacitors.
Week 11	Combination of capacitors, Energy density in an electric field.
Week 12	Capacitors with dielectrics. Types of Capacitors.
Week 13	**Current and Resistance:** Current and current density, Microscopic Model of Current, Resistance and Ohm's law
Week 14	Electromotive force, Calculating the current, Potential difference.
Week 15	RC-circuit, Superconductors.

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Introduce the student to how to write the report, how to draw graphs and calculate the slope, as well as identify the equipment used in the laboratory
Week 2	Introduction about D.C. Current measurement devices D.C.
Week 3	Ohm's Law.
Week 4	Non-linear relationship between the voltage and current for heating resistance.
Week 5	Kirchhoff, s circuit laws.
Week 6	Find the value of unknown resistance "medium value" in a comparison with the resistance of a second known value.
Week 7	Exam on the graph and measurement devices
Week 8	**Midterm exam**
Week 9	Set the resistivity of the wire.
Week 10	Internal resistance of the voltmeter
Week 11	The temperature coefficient.
Week 12	Find the value of unknown resistance by Whetstone's bridge.
Week 13	Comprehensive review of experiences
Week14	Theoretical part exam (semester)
Week 15	Practical part exam (semester)
Week 16	**Final exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	1- Fundamentals of Physics, 8th Edition, David Halliday, Robert Resnick, Jearl *Walker* 2008.	yes
Recommended Texts	1- Fundamentals of Physics Extended, 10th Edition, David Halliday, Robert Resnick, Jearl ***Walker***. August 2013. 2-Fundamentals of Physics Extended, 11th Edition , David Halliday, Robert Resnick, Jearl *Walker* 3-General Physics Practical Binding 4-Electricity and magnetism textbook for the first stage. 5-Practical Physics book by Dr. Siham Afif Qandal. University Physics book by Abdel Amir Abdel Salam. 6-Book of Practical Physics Experiments issued by the University of Berlin.	yes
Websites	Lecture Notes of Massachusetts Institute Technology	

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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Optics I			**Module Delivery**	
Module Type	Core			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**PHY 1103**				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	UGI		**Semester of Delivery**	1	
Administering Department	physics		**College**	science	
Module Leader	Qahtan K.		**e-mail**	Qahtan.k@sc.uobaghdad.edu.iq	
Module Leader's Acad. Title	Professor		**Module Leader's Qualification**	Ph.D.	
Module Tutor			**e-mail**	E-mail	
Peer Reviewer Name	Kais A. Al Naimee		**e-mail**	Kais.a@sc.uobaghdad.edu.iq	
Scientific Committee Approval Date	01/06/2023		**Version Number**	1.0	
Relation with other Modules العلاقة مع المواد الدراسية الأخرى					
Prerequisite module			**Semester**		
Co-requisites module			**Semester**		

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	7. Teaching students the basic principles of physics. 8. Preparing specialists in the field of general physics and its practical applications, which bears the responsibility of studying the country's need for development and progress and capable of meeting the needs of the job market in state institutions and industry sectors. 9. Preparing an educated generation armed with science and adopts it as a sound basis to bring about radical changes and assign scientific knowledge and scientific methods in thinking, analysis and adaptation with the development of technologies, to keep up with the expansion of human needs.

	10. Effective contribution for deepening and documenting the connection of the university with the society through the implementation of advisory counseling, training and development of teaching and administrative staff. 11. The service of preparing graduates specialized in physics who contribute to development in the country. 12. Meeting the needs of various sectors with highly qualified personals in the field of physics. 13. Encouraging the distinguished in this field to work as teaching assistants in the department to be part of the academic teaching staff in the future.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	***A. Cognitive goals*** 1- To enable the student to know and understand the basics of physics. 2- To make students able to understand physical phenomena from a optics point of view. 3- Making the student able to know and understand the basics of physics through the use of modern software and keeping pace with scientific development. 4- Enable students to obtain knowledge, understand the scientific laws of physics and its practical applications, logical and scientific analysis, and the interpretation of physical phenomena. ***B. The skills goals special to the program*** 1- Sound scientific research skills and constructive scientific discussions and expressing of opinions. 2- Usage and development skills. 3- Thinking skills and enabling the student to understand and solve scientific problems related to the laws of physics. 4- Skills and ability to apply the theoretical and practical scientific experience, gained from his studies, in the areas of practical life; taking into account industrial and commercial constraints.
Indicative Contents المحتويات الإرشادية	In this course content a many subjects like nature of light , Plane harmonic waves and phase velocity, ,refraction of light , the superposition of waves, interference ,diffraction and polarization.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	94	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	56	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	**Nature and propagation of light:** Introduction. Properties of light. Refractive index.
Week 2	Optical path. Speed of light. Shadows. The wavelength of light.
Week 3	Electromagnetic spectrum. Visible region. Dual nature of light., Fermat principle
Week 4	**Reflection and refraction at plane surfaces:** Light rays. Reflection and refraction at plane surface
Week 5	Critical angles and total internal reflection. Refraction by plane parallel plates
Week 6	Refraction by prism. Minimum deviation angle
Week 7	Dispersion, Rainbow
Week 8	**Mid Term Exam**
Week 9	**Lens aberrations.** First order theory
Week 10	Third order aberration. Chromatic aberration
Week 11	Achromatic lenses. Spherical aberration. Astigmatism
Week 12	Distortion. Coma. Curvature of the field
Week 13	**Optical instruments:** The eye. Defect of vision. Spectacles. Camera
Week 14	Simple microscope. Eyepieces. Compound microscope. Telescopes
Week 15	Spectrometer. Refract meter. Prism binoculars. Rangefinder.
Week 16	**Final Exam**

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	General information on optical laboratory.
Week 2	Reflection and refraction of light at a plane surface
Week 3	Focal length measurement using a convex lens
Week 4	Focal length measurement using a concave mirror
Week 5	Verification of the laws of reflection
Week 6	Verification of the laws of refraction
Week 7	Total internal reflection and its applications
Week 8	**Mid tem exam.**
Week 9	Formation of real and virtual images by convex lenses
Week 10	Formation of real and virtual images by concave lenses
Week 11	Image formation by a combination of lenses
Week 12	Formation of images using pinholes
Week 13	Image formation by optical fibers
Week 14	Reflection and refraction in liquid
Week 15	General overview on experiments
Week 16	**Final Exam.**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Fundamental of Optics by F. Jenkins and H.White	yes
Recommended Texts	Optics by E. Hecht	
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
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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	**Computer Skills I**			**Module Delivery**	
Module Type	Support or related learning activity			☐ **Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	COS 1104				
ECTS Credits	6				
SWL (hr/sem)	150				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Computer Science		**College**	College of Science	
Module Leader	Mela Ghazi Abdul-Haleem		**e-mail**	a.mela@sc.uobaghdad.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	M.Sc	
Module Tutor			**e-mail**		
Peer Reviewer Name	Dr. Assmaa A. Fahad		**e-mail**	Assmaa.fahad@sc.uobaghdad.edu.iq	
Scientific Committee Approval Date	11-6-2023		**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	• This module sets out essential concepts and skills relating to the use of devices. • This module covers the key skills and main concepts relating to computers, devices, file creation and management, web browsing, and data security. • Help students to demonstrate the ability to use word processing application to accomplish everyday tasks associated with creating, formatting, finishing small-sized word processing documents, such as letters and other everyday documents. • Help students to demonstrate the ability to use a power point application to accomplish tasks associated with creating, and formatting a presentation. • Help students to demonstrate the ability to use Excel application to accomplish a spreadsheet for tasks.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Upon successful completion of the course, a student will be able to: 1. Understand key concepts relating to computers, devices and software. 2. Identify the main types of Integrated and External equipment 3. Understand concepts of online communities, communications and e-mail 4. Adjust the main operating system settings and use built-in help features. 5. Know about the main concepts of file management and be able to efficiently organize files and folders. 6. Create a report by Ms. Word document and print an output. 7. Use University email to Collaborate inside and outside university and How to participate in video conference using meet 8. Create a presentation using power point application. 9. Create a spreadsheet using Excel application.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: - The general purpose computer model: All types of computers follow the same structure and perform the basic operations (Input, Processing, Output, Storage and controlling) to converting raw input (data) to information. - Components of a computer Hardware: Each computer consists of Hardware and software. The Hardware includes input devices, output devices, system units, storage devices, and communication devices. - System Units (Internal & External components of system units): The internal component of the system units is consists of (CPU, Motherboard, RAM, Ports, Hard disk …). - Central Processing Unit: ALU, CU, and memory unit. - Memory and its Types ▪ Cache Memory ▪ Primary memory –Comparison between RAM & ROM ▪ Secondary Storage

	- Ports and their types (Ports: is a connection points used as an interface between the computer and its peripheral devices (Serial ports, Parallel ports, PS/2, USB, VGA …)). - Input Devices (Keyboard, Mouse, …) - Output Devices (Printer, speaker, monitors, …) - Software Types of Software ▪ Operating System (Windows, Linux, …) ▪ Application Software & their types ▪ Programming Languages (Low, Assembly, High level). - Internet, Benefits, Browsing the Web (Web Browser) , Search the web (search engine) - Communication Technology: It plays an important role in almost every activity that we performed. The best examples of Communication technology includes: blogs, Web sites, live video, social media technology, and E-mail communication. - E-mail: free e-mail providers (G-mail, Yahoo-mail, …), send and receive E-mail operation, send e-mail with attachment, checking the e-mail boxes (inbox, send box, spam …). - Security and keeping information safe: protect the information from unauthorized access and prevent use, modification, and destruction of this information. - Virus transmission ways to the computer: by e-mail, Downloading from the Internet, Pirated software, Exchange of diskettes, in attached e-mail, and in documents. - Protection against viruses: install good anti-viruses. - Antivirus, benefits and Types Introduction to windows - Desktop Components: (Icons, Start, task bar …) - The start menu (its functions and properties)
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. Different forms of teaching will be used to reach the objective of this module, including power point presentation for the subjects which contains titles, definitions, summary and conclusions, whiteboard will be used and classroom discussion with assignments, the students will be asked to prepare papers on selective topics.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	62	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	88	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	4	10	3,6 and 10,13	(1), (2), (3), (4), (5), (9), (10), (11), (12), (13)
	Assignments	4	10	2,5 and 10, 13	
	Projects / Lab.	1	10	Continuous	All
	Report	1	10	13	
Summative assessment	**Midterm Exam**	2hr	10	8	
	Final Exam	3hr	50	16	All
Total assessment			100 Marks		

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Introduction to Computers – definition -The purposes of using a computer. -The general purpose computer model. -The difference between Data and Information concepts. Introduction to windows - Desktop Components - The start menu (its functions and properties)
Week 2	The Components of a computer: Hardware

	- System Units (Internal & External components of system units) - Central Processing Unit (Features and components) Windows: - Task bar and its functions and properties
Week 3	- Memory and its Types ▪ Cache Memory ▪ Primary memory –Comparison between RAM & ROM ▪ Secondary Storage Windows: - Files and Folders: All operations on files and folders (selection, creation, saving, moving and renaming.
Week 4	Ports and their types - Input Devices, - Output Devices Windows: - Delete Files. - Recycle bin. - Creating a Shortcut. - Desktop Icons. - The Windows Explorer Views. - Sort files.
Week 5	- Software Types of Software ▪ Operating System ▪ Application Software & their types Programming Languages Windows: -Customizing the desktop. -Change screen resolution. - Change Desktop Background
Week 6	- Communication Technology - E-mail Windows: - Print Screen - Cleaning Up the Disk - Defragmenting the Disk
Week 7	- Internet, Browsing the Web (Web Browser) , Search the web (search engine) - Security and keeping information safe -Virus transmission ways to the computer -Protection against viruses -Antivirus, benefits and Types
Week 8	**Midterm Exam**
Week 9	Microsoft Word - Word Program Interface -Keyboard Shortcuts in Microsoft Word -The operations on Text - File Menu
Week 10	Microsoft Word - Home Tab & it commands - Insert Tab (Pages & tables Groups) - Table Tools
Week 11	Microsoft Word - Insert Tab (Illustrations, Header & Footer, Text and Symbols Groups)

	- Page Layout, References, Review Tabs
Week 12	Microsoft PowerPoint - PowerPoint program Interface. - File Menu - Home Tab & it commands - Operations on the Slides (duplicate, Delete, and Move)
Week 13	Microsoft PowerPoint - Insert Tab, Design Tab, Slide Show Tab and their commands - Transitions, and Animations Tabs
Week 14	Microsoft Excel - File Menu, Home Tab & it commands
Week 15	Microsoft Excel - Excel Worksheet Basics - Cell format
Week 16	**Final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	1. M. E. Vermaat and G. B. Shelly, *Discovering Computers Fundamentals: Living in a Digital World,* Shelly Cashman, 2011 Edition. 2. J. Lambert, J. Cox , and C. Frye, *Microsoft Office Professional 2010 Step by Step* , 1'st Edition, Microsoft Press, 2010, 152P.	E-Copy
Recommended Texts	D. Hajek and C. Herrera***, Introduction to Computers 2022 Edition,*** Independently published, May 19, 2022, 255P.	NO
Websites	1. https://theictbook.com/components-of-the-system-unit-and-their-functions/ 2. https://www.tutorialspoint.com/computer_fundamentals/index.htm 3. https://www.slideshare.net/Jamjolojessa/types-of-application-software?from_action=sav 4. https://www.bbc.co.uk/bitesize/guides/zbfny4j/revision/1 5. https://generalnote.com/Computer-Fundamental/ 6. https://edu.gcfglobal.org/en/word2010/# 7. https://edu.gcfglobal.org/en/powerpoint2010/# 8. https://edu.gcfglobal.org/en/excel2010/# 9. https://antivirus.comodo.com/blog/computer-safety/what-is-antivirus 10. https://thingscouplesdo.com/what-is-the-antivirus-software-that-is-best-for-a-user	

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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Mathematic I			**Module Delivery**	
Module Type	**Support or related learning activity**			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**COS 1105**				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Department of Physics		**College**	Science College/ University of Baghdad	
Module Leader	Dr. zainab hadi Mahmood		**e-mail**	zainab.mahmood@sc.uobaghdad.edu.iq	
Module Leader's Acad. Title	Assistant Professor		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Dr. zainab hadi mahmood		**e-mail**	zainab.mahmood@sc.uobaghdad.edu.iq	
Peer Reviewer Name	Dr. Raad Mohammed Saleh Al-Haddad		**e-mail**	raad.m@sc.uobaghdad.edu.iq	
Scientific Committee Approval Date	11/06/2023		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module	COS 1104	**Semester**	1

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	The objectives of the academic program of teaching mathematics for the first stage in universities typically include the following: 1. **Developing fundamental mathematical skills**: The first stage of university mathematics education aims to develop students' fundamental mathematical skills, including algebra, geometry, trigonometry, and calculus. Students are expected to master these skills to build a strong foundation for more advanced mathematical concepts. 2. **Promoting critical thinking**: Mathematics education in universities aims to promote critical thinking skills by teaching students to solve problems using logical reasoning, deduction, and analysis. Students learn how to approach complex problems and break them down into simpler, more manageable parts. 3. **Fostering creativity**: Mathematics education can also foster creativity by encouraging students to explore new ideas and develop their own approaches to problem-solving. By encouraging creativity, students can develop a deeper appreciation for the beauty and elegance of mathematics. 4. **Preparing students for advanced study**: The first stage of university mathematics education is often a prerequisite for advanced study in mathematics and related fields. Therefore, one of the primary objectives is to prepare students for more advanced coursework by building a strong foundation in fundamental mathematical skills. 5. **Enhancing career prospects**: Mathematics education can also enhance students' career prospects by providing them with the analytical and problem-solving skills that are highly valued in a wide range of industries, including finance, engineering, and computer science. Thus, the academic program of teaching mathematics at the first stage in universities aims to equip students with the necessary skills and knowledge to succeed in their future careers.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	***Module learning outcomes in math typically include the following***: 1. ***Knowledge***: Students should be able to demonstrate a comprehensive understanding of mathematical concepts, theories, and principles relevant to the module. 2. ***Problem-solving***: Students should be able to apply mathematical knowledge and skills to solve problems and analyze real-world situations. 3. ***Mathematical reasoning***: Students should be able to use mathematical reasoning to derive conclusions and make predictions based on available data. 4. ***Communication***: Students should be able to communicate mathematical ideas and concepts clearly and effectively, both in writing and orally.

	5. ***Use of technology***: Students should be able to use technology, such as calculators, computer software, and online resources, to enhance their understanding of mathematical concepts and solve problems. 6. ***Independent learning***: Students should be able to engage in independent learning, such as reading relevant literature, conducting research, and applying mathematical concepts to novel problems. 7. ***Critical thinking***: Students should be able to critically evaluate mathematical arguments and solutions, identify potential errors or weaknesses, and propose alternative solutions. 8. ***Numeracy:*** Students should be able to demonstrate proficiency in numerical skills, including arithmetic, algebra, geometry, and statistics, as appropriate to the module. 9. ***Mathematical modeling:*** Students should be able to create and interpret mathematical models of real-world phenomena, using appropriate mathematical tools and techniques. 10. ***Ethics and professionalism***: Students should be able to apply mathematical knowledge and skills in an ethical and professional manner, respecting the rights and dignity of others and adhering to relevant codes of conduct and professional standards.
Indicative Contents المحتويات الإرشادية	The mathematics course for the first stage typically covers a range of fundamental mathematical topics, including calculus, The Rate of change of function,limit , Derivatives of algebraic function and Applications. The course aims to develop students' mathematical skills, including problem-solving, critical thinking, and analytical reasoning, and to prepare them for advanced study in mathematics and related fields.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	***There are many effective learning and teaching strategies for math, including:*** 1. **Active learning**: In math, active learning can involve solving problems, working on projects, engaging in discussions, and participating in peer instruction. Active learning helps to reinforce concepts and skills, and encourages students to take ownership of their learning. 2. **Visual aids**: Visual aids, such as graphs, diagrams, and illustrations, can help to make abstract concepts more concrete and easier to understand. They can also help to illustrate complex ideas and relationships. 3. **Real-world applications**: Using real-world examples and applications can help to motivate students and show them the relevance of math to their lives and future careers. Real-world applications can also help to illustrate the practical value of mathematical concepts and techniques. 4. **Scaffolding**: Scaffolding involves breaking down complex concepts and skills into smaller, more manageable steps, and providing support and guidance as students work through each step. Scaffolding can help to build students' confidence and competence, and reduce frustration and anxiety.

	5. **Feedback**: Providing timely and constructive feedback is essential for effective learning in math. Feedback can help to identify strengths and weaknesses, reinforce good practices, and provide guidance for improvement. 6. **Collaborative learning**: Collaborative learning involves working in groups or pairs to solve problems, discuss ideas, and provide feedback to one another. Collaborative learning can help to build teamwork skills, deepen understanding of concepts, and promote critical thinking. 7. **Use of technology**: Technology, such as calculators, computer software, and online resources, can be used to enhance learning and teaching in math. Technology can help to visualize abstract concepts, simulate complex systems, and provide interactive and engaging learning experiences. 8. **Differentiated instruction**: Differentiated instruction involves tailoring instruction to meet the diverse learning needs of students. This can involve providing multiple modes of instruction, varying the pace and complexity of instruction, and providing additional support or challenge as needed. **These strategies can be used in combination to create a rich and engaging learning environment for math students.**

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	12	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**75**		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	4	10% (10)	3,6 and 10,13	LO #1, #2 and #10, #11
	Assignments	4	10% (10)	2,5 and 10, 13	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)	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	**The Rate of change of function**: Coordinates , Increments , Slope of the straight line
Week 2	**The Rate of change of function** : Equation of straight line , functions and graphs
Week 3	**The Rate of change of function** : Ways of combining functions , Behavior of functions
Week 4	**The Rate of change of function** : Slope of curve ,Derivative of a function ,Velocity and Rate
Week 5	**Limit**: infinity functions
Week 6	**Limit**: Definitions of the limit of a function , Theorems about the limits , more Theorems about the limits
Week 7	**Limit**: limit applied areas , the continuity of function
Week 8	**Midterm exam**
Week 9	**Derivatives of algebraic function**: polynomial functions and their derivatives , Rational functions and their derivatives
Week 10	**Derivatives of algebraic function**: Derivatives of algebraic function: Inverse functions and their derivatives , the increment of function
Week 11	**Derivatives of algebraic function** :Composite functions , Derivatives of composite functions (the chain rule)

Week 12	**Derivatives of algebraic function** :The differentials dx and dy , Formulas for differentiation repeated in the notation of differentials
Week 13	**Applications**: Increasing or decreasing functions (the sign of dx/dy) ,Related rates
Week 14	**Applications**: Significance of the sign of the second derivatives , Curve plotting
Week 15	**Applications**: Max. and Min. : Theory , Rolles theorem
Week 16	**Final Exam**

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

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	1. Stewart. J. "Calculas", 7th Edition, 2012. 2. Thomas. G. B. & Finney. R. L., "Calculas and Analytic Geometry", 6th Edition, 1984.	yes
Recommended Texts		
Websites		

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Arabic Language**			**Module Delivery**	
Module Type	Basic learning activities			☒**Theory** ☒**Lecture** ☐**Lab** ☐**Tutorial** ☐**Practical** ☐**Seminar**	
Module Code	**UOB 1106**				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Type Dept. Code		**College**	Type College Code	
Module Leader	**Dr. Leqaa faleh owdaa**		**e-mail**	leqaa.falih@ircoedu.uobaghdad.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	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	11/06/2023		**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	**1-تعلم مهارات الكتابة والاملاء والتعبير الصحيح خلال تطبيق قواعد اللغة العربية بشكل مفصل وتطبيقي على نصوص عربية.** **2- لفهم الجمع وأنواع الاسماء وكيفية التعامل معها.** **3- لفهم العدد واستعماله بشكل صحيح من حيث المطابقة والمخالفة** **للتفريق بين الضاد والظاء.** **4- للتفريق ومعرفة استعمال التاء المربوطة والتاء الطويلة.** **5-التمييز بين العلامات الاصلية والفرعية.**

	6- تعلم استعمال الأدوات وعمل كل أداة ومعناها في التعبير.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	**هام: اكتب ٦ مخرجات تعليمية على الأقل، ومن الأفضل أن تكون مساوية لعدد أسابيع الدراسة** **١-التعرف على كيفية جمع الأسماء وأنواع الجموع وسبب اختلافها وقائمة بالمصطلحات المختلفة المرتبطة ببلاغة اللغة العربية تعلم كتابة الهمزة وانواعها.** **٢-وصف عمل الجمل الفعلية وأنواع الافعال** **٣-ناقش وتفاعل ومشاركة قواعد الجمل الاسمية وعلامات الاعراب الاصلية والفرعية والتطبيقات ضمن نصوص أدبية وقرانية.** **٤-القدرة على استعمال علامات الترقيم في كتابة البحوث والتقارير .** **٥-التمييز بين الأدوات وأسلوب العطف والجر.** **٦-التعرف على قواعد اللغة العربية الأساسية وتطبيقاتها.**
Indicative Contents المحتويات الإرشادية	**يتضمن المحتوى الإرشادي ما يلي.** **مقدمة في البداية التي أسس لها علماء اللغة العربية وكيف بدأت كتابة المؤلفات بالمعاجم والقواعد وجمع اللهجات واستقراء اللغة وحركة الترجمة والفتوحات وتطور اللغة.** **ومشكلات المراجعة (٦ ساعات)** **ودراسة الجمل وانواعها والافعال والعلامات الاصلية والفرعية والعدد. ومشكلات الكتابة والاملاء التي يقع فيها الطلبة في التفرقة بين الضاد والظاء والتاء المربوطة والطويلة والهمزة وانواعها وكيفية كتابتها. (٦ساعات)** **ودراسة الموضوعات الصرفية التي تخص المشتقات من اسم الفاعل واسم المفعول وصيغة المبالغة واوزانها ومعانيها وصيغها السماعية والقياسية..** **وعلامات الترقيم وكيفية توظيفها في كتابة التقارير والبحوث والمخطوطات. (٦ساعات)**

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	**كتب شيئًا مثل: الاستراتيجية الرئيسية التي سيتم تبنيها في تقديم هذه الوحدة هي تشجيع الطلاب على المشاركة في التمارين، مع تحسين مهارات التفكير النقدي وتوسيعها في نفس الوقت. سيتم تحقيق ذلك من خلال الفصول والبرامج التعليمية التفاعلية ومن خلال النظر في أنواع التجارب البسيطة التي تتضمن بعض أنشطة أخذ العينات التي تهم الطلاب.**

Student Workload (SWL) **الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا**			
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**	42	Unstructured SWL (h/w) **الحمل الدراسي غير المنتظم للطالب أسبوعيا**	3
Total SWL (h/sem) **الحمل الدراسي الكلي للطالب خلال الفصل**	75		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	10% (10)	3,6 and 10,1 3	LO #1, #2 and #10, #11
	Assignments	4	10% (10)	2,5 and 10, 1 3	LO #3, #4 and #6, #7
	Projects / Lab.		10% (10)	Continuous	All
	Report	1	10% (10)	13	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	علامات الترقيم والتنقيط والنواسخ
Week 2	المشتقات.
Week 3	الجملة الاسمية
Week 4	الجملة الفعلية
Week 5	الفرق بين الضاد والظاء
Week 6	التاء المربوطة والتاء المفتوحة
Week 7	الهمزة وانواعها العدد
Week 8	Midterm Exam
Week 9	الجمع
Week 10	العلامات الاصلية والعلامات الفرعية
Week 11	اعلام عراقيون بدر شاكر السياب والجواهري
Week 12	العطف
Week 13	حروف الجر
Week 14	الاسم المؤنث والاسم المذكر
Week 15	الحذف والزيادة، الأسماء المنصوبة

Week 16	**Final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	جامع الدروس العربية وشرح ابن عقيل	Yes
Recommended Texts	Electromagnetic theory (book). 2000.vol.1	yes
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.