جمهورية العراق

وزارة التعليم العالي والبحث العلمي

جهاز الاشراف والتقويم العلمي

بسم الله الرحمن الرحيم

اسم الجامعة:ديالى

اسم الكلية:الهندسة

اسم القسم: الالكترونيك

المرحلة: الاولى

اسم المحاضر :

((استمارة الخطة التدريسية السنوية))

اسم التدريسي:	
البريد الالكتروني:	
اسم المادة:	**English Language I**
أهداف المادة:	The module aims to develop the students' English skills in reading, writing, listening and speaking.
الكتب المنهجية:	New Headway Beginner, by lizand john soars
المصادر الخارجية:	• https://www.learnenglish.de/ • https://www.englishgrammar.org/ • https://www.phrasebank.manchester.ac.uk/

تقديرات الفصل:	Quizzes	Assignments	Seminars	Midterm Exam	Final Exam
	%5	%20	%5	%20	%50
معلومات إضافية:					

جدول الدروس الأسبوعي

الأسبوع	التاريخ	المادة النظرية	المادة العملية	الملاحظات
1		GRAMMAR, READING , MAIN COURSE SPEAKING, LISTENING ,VOCABULARY am/is/are my/your This is… Introduction dialogues, Everyday English dialogues Introductions, Good morning! Practicing introduction dialogues. People meet each other and introduce someone else. How are you? What's this in English? Numbers 1 10 and plurals		
2		He/she/they His/her. Questions Where are they from?, Two people are on holiday in New York. Students ask and answer questions about where people are from. Countries, Numbers 10-20 A set of cities and countries: Brazil, Spain… Adjectives: awful, really good, fantastic, beautiful Nouns: centre, hospital, building, park		
3		Verb to be is recycled and extended to include negative and question forms. We're in Las Vegas! Roleplay: in a band. An interview with the band Metro 5. Jobs: a nurse, a doctor.. Personal information: surname, first name, address, married … Social expressions: I'm sorry, thanks, please…		
4		P ossessive adjectives. Possessive 's. Has/ have Adjective + noun Irregular Plurals Paddy McNab and his family, My best friend. The alphabet, On the phone, Saying email addresses. Who are they? Listen and identify the people. The family: mother, son.. Describing a friend: very beautiful, really funny…		
5		Present Simple: I/you/we/they a/an Adjective + noun Colin Brodie from Dundee. Role play: At a party. Where is Colin? Who is he with? At a party: Flavia and Terry are at a party in London. The lexical set of sports/food/drinks. Languages and nationalities		
6		Present Simple: He/she Question and negatives Adverbs of frequency Prepositions of time Lois Maddox Talking about		

		daily routines, Asking and answering questions about daily routines, Lifestyle questionnaire Listening a phone conversation between Lois and Elliot. Days of the week. The time. Words that go together: watch TV, get up early…		
		Question words Subject pronouns Object pronouns Possessive pronouns This and that A postcard from San Francisco, A holiday postcard. Describing lifestyles, preferences and places, Roleplay: conversations in town. Listening the requests with Can I……..? Adjectives: lovely, terrible, comfortable, friendly… Opposite adjectives: new/old, big/small Places: chemist, post office		7
		There is /are Prepositions: in, on, under, next to Vancouver- the best city in the world, What to do and where to go. Talking and asking about rooms and furniture, Giving directions. My home town, Steve talks about living in Vancouver. Rooms and furniture: living room, bedroom … In and out of town: beach, mountain, sailing,…		8
		Was/were born Past simple: irregular verbs It's a Jackson Pollock. Telling a story from pictures, Saying the dates in English. Magalie Dromand, Magalie dromand talks about her family. Saying years People and jobs Irregular verbs Have, do, go: have lunch, do homework, go shopping		9
		Past simple: regular and irregular Questions Negatives Ago Dialogues with simple past. Did you have a good weekend? Asking about holidays, A questionnaire, My last holiday, Roleplay: asking and giving directions. Angie and Rick are at work, Jack and Millie's holiday. Weekend activities: go to the cinema, have a meal… Time expressions: on Monday, last night… Sports and leisure: tennis, skiing, windsurfing… Play or go: play tennis, go skiing… Seasons: winter, summer…		10
		Can / can't, Adverbs, Adjective + noun Requests and offers The Internet, What can you do on the internet? Talking about what you can do, Talking about everyday problems, Five people talk about what they do on the internet. Verbs: draw, run, drive… Verb+noun: Listen to the radio, chat to friends Adjective+noun: fast car, busy city, dangerous sport Opposite adjectives: dangerous/ safe, old/modern, old/young.		11
		I'd like, You are what you eat, Discussion-what is a good diet? Conversation with Adam, Shopping: bread, milk, fruit, Please and thank you Some /any, Like and would like People from different parts of the world describe what they eat. Roleplay: Ordering a meal. Birthday wishes, What people want on their birthday. stamps, cheese, ham… Food: cereal, salad, pasta, fish… In a restaurant: menu, starter, desert, soup, salmon		12
		Present continuous, Present simple and present continuous. This week is different, Colin, a millionaire, gives money to homeless teenagers What's the matter? Why don't you ….? What is Nigel wearing? Nigel is on holiday, What's the matter. Colours: blue, red, green… Clothes: jacket, trousers,		13

		shoes and socks… Opposite verbs: buy/sell, love/hate, open/close…		
		Future plans, Revision: question words, tenses. Seven countries in seven days, Life's big events: three people talk about their family, education, work and ambitions. A mini autobiography. Eddie is talking to a friend about his holiday plans, social expressions Transport: travel by bus, coach, motorbike, plane… Revision		14
		Irregular verbs, phonetic symbols, consonants and vowels.		15

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بسم الله الرحمن الرحيم

اسم الجامعة:ديالى

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المرحلة: الاولى

((استمارة الخطة التدريسية السنوية))

اسم التدريسي:	هدى ابراهيم حمد
البريد الالكتروني:	huda.ibrahim@uodiyala.edu.iq
اسم المادة:	**Mathematics I**
أهداف المادة:	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.
الكتب المنهجية:	George B. Thomas and Ross L. Finney, “Calculus and Analytic Geometry, Addison-Wesley
المصادر الخارجية:	Thomas Calculus, by George B.Thomas,Jr,Elevnth Edition Media Upgrade 2008

تقديرات الفصل:	Quizzes	Assignments	Midterm Exam	Final Exam
	%10	%20	%20	%50
معلومات إضافية:				

جدول الدروس الأسبوعي

الأسبوع	التاريخ	المادة النظرية	المادة العملية	الملاحظات
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		
2		Introduction to vectors		
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		
4		Review of trigonometric function graph of trigonometric function, range and domain, identities		
5		Limits and Continuity Properties, limits involving infinity, continuity		
6		Transcendental functions Inverse function, graph of inverse function, Logarithmic and exponential functions, trigonometric functions , inverse trigonometric functions, hyperbolic functions, inverse hyperbolic functions		
7		Derivatives Definition, rules of derivative, slopes , tangent lines, chain rule, derivative of trigonometric functions, Implicit differentiation, L hospital's rule		
8		Derivative of inverse trigonometric functions, derivative of exponential and logarithmic functions		
9		Applications of derivatives Speed and acceleration, Relative maximum and relative minimum		
10		Curve sketching with 1st and 2nd derivative		
11		Linearization		
12		Rate of change problems		

		Mean value theorem -Initial value problem		13
		Complex numbers**:** Basic definitions. The geometric representations of the complex numbers**,** argand diagram		14
		Basic operations with complex numbers, Euler's Formula		15
		Preparatory week before the final Exam		16

توقيع الأستاذ: **توقيع رئيس القسم** **توقيع العميد:**

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((استمارة الخطة التدريسية السنوية))

اسم التدريسي:	شهد فائز ثابت
البريد الالكتروني:	
اسم المادة:	**Electronic Physics**
أهداف المادة:	• To develop problem solving skills and understanding of electronics theory through the application of techniques. • To understand Atomic structures and energy level. • To understand voltage, current and electronics device from a given circuit. • This course deals with the basic concept of semiconductors materials. • This is the basic subject for all semiconductors and electronic circuits. • To understand diode circuit and semiconductor problems.
الكتب المنهجية:	Introduction to physical Electronics By: Bill Wilson
المصادر الخارجية:	فيزياء الالكترونيات ,د .صبحي سعيد

تقديرات الفصل:	Quizzes	Assignments	Projects Or seminar	Report	Midterm Exam	Final Exam
	%10	%10	%10	%10	%10	%50

معلومات إضافية:	

جدول الدروس الأسبوعي

الأسبوع	التاريخ	المادة النظرية	المادة العملية	الملاحظات
1		The Atom, Models, Wave Nature of Light, Dual Nature of Matter, Wave Function, Heisenberg's Uncertainty Principle		
2		Energy – Band Theory of Metals, Insulators and Semiconductors, Crystal Structure, Ionic		
3		Covalent and Metallic Bonding, Energy Hand of Crystals. Internal Structure of Materials Cell		
4		Packing Miller Indices, Crystal Planes and Directions, Braggs Law and x – ray Diffraction Electronic Ballistics		
5		Mobility and Conductivity		
6		Energy Distribution of Electrons, Fermi Level, Work Function		
7		Introduction Semiconductors Materials (Si , Ge and Compound Semiconductors)		
8		Extrinsic Semiconductors , Fermi – Level in Semiconductor		
9		Diffusion and Carrier Life Time , Hall Effect		
10		p-n Junction in Equilibrium , Current – Voltage Characteristics		
11		Charge Control Description of a Diode Transition and Diffusion Capacitances, Diode Switching Times		
12		Diode Models , Small – Signal Model and Load Line Concept		
13		Varactor Diode, Tunnel Diode, Photodiode and Photovoltaic (Solar) Cell, Light – Emitting Diode		
14		Principle and Operation of Semiconductor Laser. Electronic Ballistics Semiconductor Diode		
15		Half wave and Full wave rectifier ,clipping and clamping circuit		
16		**Preparatory week before the final Exam**		

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((استمارة الخطة التدريسية السنوية))

اسم التدريسي:	إيناس داود حسن
البريد الالكتروني:	enas.dawood@uodiyala.edu.iq
اسم المادة:	**Computer Skills**
أهداف المادة:	• Training students on the basics of using the computer and providing them with the necessary skills to deal with the computer with high efficiency • Assisting the student in distinguishing and developing his scientific and artistic abilities • Enriching the student's skills to be able to deal with the computer with high efficiency • Providing students with a way to use other modern technologies related to the educational process
الكتب المنهجية:	• 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
المصادر الخارجية:	• 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

تقديرات الفصل:	Quizzes	Assignments	Lab.	Report	Midterm Exam	Final Exam
	%10	%10	%10	%10	%10	%50
معلومات إضافية:						

جدول الدروس الأسبوعي

الأسبوع	التاريخ	المادة النظرية	المادة العملية	الملاحظات
1		Overview of computers and their basic components and applications	Introduction to the lab and get started with use of computer	
2		Operating computer using GUI operating systems	Basic use of Windows operating system	
3		The basic use of Microsoft Windows operating system	General view of Windows OS tools with a focus on Microsoft Office tools	
4		**Microsoft Office Word:** Getting Started with Word	**Microsoft Office Word:** Getting Started with Word	
5		**Microsoft Office Word:** Editing a Document and Formatting Text and Paragraphs	**Microsoft Office Word:** Editing a Document and Formatting Text and Paragraphs	
6		**Microsoft Office Word:** Adding Tables and Inserting Graphic Objects	**Microsoft Office Word:** Adding Tables and Inserting Graphic Objects	
7		**Microsoft Office Word:** Controlling Page Appearance and Proofing a Document	**Microsoft Office Word:** Controlling Page Appearance and Proofing a Document	
8		**Microsoft Office Excel:** Getting Started with Excel	**Microsoft Office Excel:** Getting Started with Excel	
9		**Microsoft Office Excel:** Sorting, Selecting and Subtotaling data	**Microsoft Office Excel:** Sorting, Selecting and Subtotaling data	
10		**Microsoft Office Excel:** Formulas and Functions	**Microsoft Office Excel:** Formulas and Functions	
11		**Microsoft Office Excel:** Worksheet Formatting and Presentation	**Microsoft Office Excel:** Worksheet Formatting and Presentation	
12		**Microsoft Office PowerPoint:** Getting Started with PowerPoint	**Microsoft Office PowerPoint:** Getting Started with PowerPoint	
13		**Microsoft Office PowerPoint:** Developing a PowerPoint Presentation, Adding Graphical Elements to Your Presentation and Modifying Objects in Your Presentation	**Microsoft Office PowerPoint:** Developing a PowerPoint Presentation, Adding Graphical Elements to Your Presentation and Modifying Objects in Your Presentation	
14		**Microsoft Office PowerPoint:** Adding Graphical Elements, tables and charts to Your Presentation and Modifying Objects in Your Presentation	**Microsoft Office PowerPoint:** Adding Graphical Elements, table and charts to Your Presentation and Modifying Objects in Your Presentation	
15		**Microsoft Office PowerPoint:** Prepare to deliver your presentation	**Final Exam**	

		Preparatory week before the final exam		16

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اسم القسم: الالكترونيك

المرحلة: الاولى

اسم المحاضر : هبه هادي علي

((استمارة الخطة التدريسية السنوية))

اسم التدريسي:	هبه هادي علي
البريد الالكتروني:	hebah_h@uodiyala.edu.iq
اسم المادة:	Electrical Engineering Fundamentals I
أهداف المادة:	• This course deals with the basic concept of electrical circuits • This is the basic subject for all electrical and electronic circuits • To understand voltage, current and power from a given circuit • To develop problem solving skills and understanding of circuit theory through the application of techniques • To understand Kirchhoff's current and voltage Laws problems • To perform mesh and Nodal analysis
الكتب المنهجية:	• 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

• 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	المصادر الخارجية:

Final Exam	Midterm Exam	Report	Lab.	Assignments	Quizzes	تقديرات الفصل:
%50	**%10**	**%10**	**%10**	**%10**	**%10**	
						معلومات إضافية:

جدول الدروس الأسبوعي

الأسبوع	التاريخ	المادة النظرية	المادة العملية	الملاحظات
1		**Electrical Engineering: An Overview**	**Lab 1: Introduction to Lab. Equipment's**	
2		**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**	**Lab 2: How to measure DC Voltage with a voltmeter (analog and digital)**	
3		**Definition of electric voltage** **Polarity of electric voltage across an element** **The difference between electric potentials and electric voltage**	**Lab 3: How to measure DC Current with an ammeter (analog and digital)**	

		Linear elements: resistances, conductance, capacitances, and inductances **Definition of: Power and energy, Sources (Independent Source & Dependent Source)**		
	Lab 4: How to measure Resistor with an ohmmeter (analog and digital)	**Ohm's Law** **Definition of: Nodes, Branches, and Loops**		**4**
	Lab 5: How to measure power with a wattmeter (analog and digital)	**Series & parallel connections of resistors** **Series Resistors and Voltage Division** **Parallel Resistors and Current Division**		**5**
	Lab 6: How to use Avometer	**Short and Open Circuits** **Wye-Delta Transformations**		**6**
	Lab 7: Resistor Color Code	**Kirchhoff's Laws**		**7**
	Lab 8: Ohm's Law	Mid-term Exam		**8**
	Lab 9: Series, parallel and series- parallel circuits	**Methods of Analysis: Nodal Analysis**		**9**
	Lab 10: Wye-Delta Transformations	**Methods of Analysis: Mesh Analysis**		**10**
	Lab 11: Kirchhoff's Voltage and Current Laws	**Circuit Theorems: Superposition, Source Transformation**		**11**
	Lab 12: Superposition theorems	**Circuit Theorems: Source Transformation**		**12**

	Lab 13: Thevenin's & Norton's theorems	**Circuit Theorems: Thevenin's Theorem**		**13**
	Lab 14: Maximum Power Transfer Theorem	**Circuit Theorems: Norton's Theorem, Derivations of Thevenin's and Norton's Theorems**		**14**
	Final Exam	**Circuit Theorems: Maximum Power Transfer Theorem**		**15**
		Preparatory week before the final Exam		**16**

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اسم القسم: الالكترونيك

المرحلة: الاولى

اسم المحاضر : اكرم مهدي عبد نجم

((استمارة الخطة التدريسية السنوية))

اسم التدريسي:	اكرم مهدي عبد نجم
البريد الالكتروني:	**akram_mahdi_eng@uodiyala.edu.iq**
اسم المادة:	Engineering Drawing
أهداف المادة:	**Engineering drawing is the principal method of communication for engineers, the objective is to introduce the students, to the techniques of constructing the various types of polygons, curves and scales.** **In addition to engineering drawing, students become familiar with the AutoCAD user interface. Understand the fundamental concepts and features of AutoCAD. Use the precision drafting tools in AutoCAD to develop accurate technical drawings—present drawings in a detailed and visually impressive manner.**
الكتب المنهجية:	• Parkinson, A.C., 1961. A First Year Engineering Drawing 2. J Luzadder, W., 1965 • Fundamentals of Engineering Drawing, by Warren J. Luzadder. Prentice-hall • Text book 1: James A. Leach, “AutoCad 2002 companion”, 2003 • Text book 2: AutoCAD 2D Tutorials, AutoCAD 2013, By Kristen S. Kurland, 2012

• Text book 3: 2D_AutoCAD.					المصادر الخارجية:
Final Exam	Midterm Exam	Homework	Assignments	Quizzes	تقديرات الفصل:
%50	**%10**	**%20**	**%5**	**%15**	
					معلومات إضافية:

جدول الدروس الأسبوعي

الأسبوع	التاريخ	المادة النظرية	المادة العملية	الملاحظات
1		**Definition of tools and how to use them,** **Introduction** **1. Status Bar and Command Prompt** **2. AutoCAD Commands** **3. Dynamic Input** **4. Menus, Ribbons, and Toolbars** **5. Cursor and Colors** **6. Undo and Redo**		
2		**Initial principles of drawing,** **Drawing Aids** **1 .Open Existing Drawings**		

		2 .Creating a New Drawing **3 .Saving Drawings** **4. Exiting AutoCAD**		
		Letters and numbers, **5. SNAP Command** **6. Grid Command** **7. Running Object Snaps** **8. Osnap Settings** **9. UNITS Command**		**3**
		Dimensions, **Draw Commands** **1. Line Command** **2. Cartesian Coordinate System** **3. Orthogonal Lines** **4. Polar Tracking**		**4**
		Line drawing, **5. Circles** **6. Arc Command** **7. Polyline Command** **8. Explode Command**		**5**
		Line drawing, **9. Rectangle** **10. Ellipse**		**6**
		Engineering operations, **Edit Commands**		**7**

		1. The Move Command **2. The Copy Command** **3. The Offset Command** **4. The Extend Command** **5. Trim Command**		
		Engineering operations, **6. The Erase Command** **7. The Zoom Command** **8. The Pan Command** **9. The Mirror Command** **10. The Rotate Command** **11. The Scale Command**		**8**
		Projection drawing, **12. The Break Command** **13. The Stretch Command** **14. The Explode Command**		**9**
		Projection drawing, **15. The Fillet Command** **16. The Chamfer Command** **17. The Array Command** **18. The Lengthen Command**		**10**
		Projection drawing, **Dimensions** **Linear Dimensions**		**11**
		Drawing of sectional Views, **2. Aligned Dimensions**		**12**

		3. Radial Dimensions		
		Drawing of sectional Views, **4. Angular Dimensions** **5.Continued and Baseline Dimensions**		**13**
		Isometric, **6. Modifying Dimensions**		**14**
		Isometric, **7. Dimension Styles** *** Creating**		**15**
		Final Exam		**16**

توقيع الأستاذ: توقيع رئيس القسم توقيع العميد: