Academic Program Description Form

University Name: Al-Furat Al-Awsat Technical University Faculty/Institute: Karbala Technical Institute Scientific Department: Electrical Techniques Department Academic or Professional Program Name: Electrical power branch Final Certificate Name: Technical Diploma Academic System: Annual Description Preparation Date: 27/3/202 File Completion Date: 31/3/2024

Signature:

Head of Department Name: lecturer Mahmood Hakim Inad

Signature: lays

Scientific Associate Name: Assist. prof. Dr. laith Hassan Jawad

Date: 31/3/2024

Date: 31 1.3: 2024

The file is checked by:

Department of Quality Assurance and University Performance Director of the Quality Assurance and University Performance Department:

Assist. Prof. Ali Neamah Hassan

Date:

Signature:

3-315

Fadlil M Dahr 31-3-2024 Approval of the Dean

1. Course Name: The Circuits and Electrical Measurements

2. Course Code:

3. Semester / Year: First and Second Semester / First Year

4. Description Preparation Date:2024/2/29

5. Available Attendance Forms: Daily mandatory attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

20 hours (60 theoretical hours + 60 practical hours)

7. Course administrator's name (mention all, if more than one name)

Name: Hiba Yassin Theban

Email: hiba.theban @atu.edu.iq

8. Course Objectives

- Preparing technically qualified personnel in the field of electricity, both academically and practically, to perform operations and maintenance of electrical units in power generation, transmission, and distribution stations, as well as maintenance of devices and equipment in the department and institute facilities.
- Building and preparing the student psychologically to undertake their role in the field of electricity.
- Developing study curricula to meet the needs of the job market and provide quality services to the community by enhancing relations with private and government sectors.

9. Teachi	ing and Learning Strategies
9. Teachi	 ing and Learning Strategies Theoretical Lecture Practical Lecture Discussion among Students Preparation of Reports and Projects related to the Lecture Material Summer Training in Public and Private Sectors E-Learning Using modern methods in teaching and training students. Forming discussion circles during lectures to discuss academic topics. Assigning students classroom duties.

10. Course Structure:						
Week	Hours	Required	Unit or subject name	Learning	Evaluation	
		Learning		method	method	
		Outcomes				
			The system of units		Daily,	
			used in electricity and		monthly,	
			measurement units for		yearly	
			each material (its parts		exams	
			and multiples)			
			Mathematical			
			applications for			
			converting values			
		Understanding the System of	using units	Lectures presented PowerPoint format		
Time4	4		Definition of the			
First	4	Units and Measurement	basic units of voltage,			
		Units	current, and resistance			
		Units	- Components of the			
			electrical circuit -			
			Ohm's law - Factors			
			affecting the value of			
			resistance - Specific			
			resistance of			
			conductive and			
			insulating materials.			
Second and		Understanding	Direct Current (DC)	Lectures	Daily,	
third	4	the	Circuits including:	presented	monthly,	

 1	I	Γ	
Characteristics	Connecting Resistors	in	yearly
and	in Series with	PowerPoint	exams
Applications	Examples	format	
of Series and	Connecting Resistors	•	
Parallel	in Parallel with		
Connections	Examples		
	Top of Form		
	Mixed Connection of		
	Resistors with		
	Examples		
	Top of Form		
	Star and Delta (Y / Δ)		
	Connection of		
	Resistors and		
	Conversion from Each		
	to the Other with		
	Examples		
	_ Applications of		
	series, parallel, mixed,		
	star, and delta circuits		

r					
Fourth and Fifth	4	Understanding Kirchhoff's Laws	Kirchhoff's Laws - Definition of Kirchhoff's Law for Current and Voltage with Problem Solving Maxwell's Circuits with Examples Solution	Lectures presented in PowerPoint format	Daily, monthly, yearly exams
		Understanding Thévenin and Norton Theorems Top of Form	 Thévenin's Theorem Definition of the Theorem - How to Apply it in Direct Current Circuits Top of Form 		Daily, monthly, yearly exams
Sixth and Seventh and Eighth	4	Understanding	Applications on Thévenin's Theorem Top of Form	Lectures presented in PowerPoint	
		Understanding the Matching Theory Top of Form	 Norton's Theorem - Definition of the Theorem - How to Apply it in Direct Current Circuits Applications on Norton's Theorem 	format	

Ninth	4	Identifying AC Quantities	Theory of Superposition - Definition of the Theory - Steps to Apply it in solving Direct Current Circuits containing more than one source - Solving Examples Definition of current source and voltage source (constant power distributor) and how to convert from one to the other - Maximum power transfer theory - Definition of the theory and derivation of its specific relationships - Application examples Top of Form	Lectures presented in PowerPoint format	Daily, monthly, yearly exams
Tenth	4	Identifying Phase Representation Top of Form	Complex Quantities - Definition - Phase and Directional Representation - Phase	Lectures presented in PowerPoint format	Daily, monthly, yearly exams

Eleventh- Thirteenth 4 Identifyi Devices	ted including - Types of measurement devices -	Lectures presented in PowerPoint format	Daily, monthly, yearly exams
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			Iron-core	
			Measurement Device -	
			Its construction and	
			how it's used in	
			measurement - Its	
			advantages,	
			disadvantages, and	
			device diagram	
			Wattmeter	Daily,
			Measurement Devices	monthly,
			- Their construction -	yearly
			Device diagram -	exams
	Understanding		Placement in the	
		Understanding	electrical circuit for	
		_	power measurement -	
Fourteenth	4	Wattmeters -	Torque equations -	
	Devi	Devices	Their advantages -	
			Their disadvantages -	
		Oscilloscope Device -		
			Device diagram - Its	
			installation - How to	
			operate and use it	

		I		.	D 11
			An Introduction to	Lectures	Daily,
			Complex Quantities,	presented	monthly,
			including - Definition	in	yearly
			- Characteristics of	PowerPoint	exams
			AC current, waveform	format	
			representation, and its		
			specific relationships -		
		Understanding	Definition of Root		
Fifteenth	4	Alternating	Mean Square (RMS)		
		Quantitie	value and Average		
			value and their		
			relationships to find		
			the Form Factor and		
			Crest Factor for non-		
			sinusoidal waveforms		
			with application		
			examples		

			-Alternating	Lectures	Daily,
			Quantities, including -	presented	monthly,
			Definition -	in	yearly
			Characteristics of	PowerPoint	exams
			Alternating Current -	format	
			How Alternating		
			Current is generated,		
			waveform		
			representation, and its		
			specific relationships -		
			Definition of Root		
		Understanding	Mean Square (RMS)		
Sixteenth-		Phasor	value and Average		
	4	Representation	value and their		
Seventeenth		Top of Form	relationships to find		
			the Form Factor and		
			Crest Factor for non-		
			sinusoidal waveforms		
			with application		
			examples		
			The alternating vector		
			quantities - their		
			definition - their phase		
			and directional		
			representation - phase		
			angle and how to find		
			it		
			11		

Eighteenth4Definition ofResistance,Capacitance,Inductance	 Finding the Resultant of Complex Quantities including multiplication, division, addition, and subtraction - with application examples Study the effect of alternating current on a circuit containing only resistance, a circuit containing only pure inductance, and a circuit containing only pure capacitance - Finding the phase angle between voltage and current for each circuit with solution 	Lectures presented in PowerPoint format	Daily, monthly, yearly exams
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	The effect of
	alternating current on
	a circuit containing
	resistance and
	inductance in series -
	A circuit containing
	resistance and
	capacitance in series -
	A circuit containing
	resistance, inductance,
	and capacitance
	Top of Form
	The effect of
	alternating current on
	a circuit containing
	resistance and
	inductance in parallel -
	A circuit containing
Understanding	resistance and
on	capacitance in parallel
	- A circuit containing
	resistance, inductance,
	and capacitance in
	parallel
Phase Angle	
Top of Form	

			Power in alternating	Lectures	Daily,
			current circuits and its	presented	monthly,
			calculation include:	in	yearly
			Circuits containing	PowerPoint	exams
			resistance only	format	
			Circuits containing		
			inductance only		
Twenty-		Decomining	Circuits containing		
first -		Recognizing	capacitance only		
twenty-	4	Electrical	Circuits containing		
fourth		Power	resistance, inductance,		
		Calculation	and capacitance in		
			series and parallel		
			Definition of active		
			power and its		
			calculation		
			Reactive power and its		
			calculation		
			Apparent total power	Lectures	Daily,
			(definition) – How to	presented	monthly,
		Understanding	draw the power	in	yearly
		the	triangle – Power factor	PowerPoint	exams
The twenty-		Calculation of	– Its definition and its	format	
fifth	4	Apparent	effect on alternating		
		Electrical	current circuits – How		
		Power	to improve power		
			factor – With practical		
			examples.		

			The theory of	Lectures	Daily,
		Understanding	maximum power	presented	monthly,
twenty-		Maximum	transfer in alternating	in	yearly
sixth	4	Power	current circuits -	PowerPoint	exams
		Transfer	Derivation of its	format	
		Calculation	relationships - With		
			examples		
			Practical methods for	Lectures	Daily,
			measuring resistances	presented	monthly,
			of high, medium, and	in	yearly
			low values - Using the	PowerPoint	exams
			ohmmeter in series	format	
			and parallel -		
		Understanding	Ammeter and		
The twenty-	1	Methods for	voltmeter method -		
seventh	4	Measuring	Substitution method -		
		Resistances	Using a Wheatstone		
			bridge - Voltage		
			divider method -		
			Switching method -		
			With examples		
			solving for each		
			method.		

	Γ	Γ		1	
			Three-phase		
			alternating current		
			circuits - its definition		
			and how to generate		
			alternating current:		
twonty			one phase - two		
twenty-			phases - three phases -		
eighth			with a drawing of each		
			circuit, star and		
			triangle connections in		
			three-phase alternating		
			current circuits.		
		Solving	Solving practical		Daily,
		practical	examples about three-	Lectures	monthly,
		examples	phase alternating	presented	yearly
twenty-	4	about three-	current with delta and	in	exams
ninth		phase	star connections,	PowerPoint	
		alternating	including balanced	format	
		current.	and unbalanced loads.		

	Methods of measuring
	power for three-phase
	loads - Wattmeter
	device and its
	connection in the
Thirty	circuit to measure
	active power -
	calculating reactive
	power and apparent
	power with an
	example solution.
	Measuring power
	using a wattmeter and
	voltage - how to find
	the total power using
	this method and in the
	case of star and delta
	connections - using
	two watt meters -
	using three watt
	meters.

11.Course Evaluation

First Semester Exams:

10 marks - Theoretical

10 marks - Practical

5 marks - Evaluation of Non-Graded Assignments and Weekly Laboratory Reports.

Second Semester Exams:

10 marks - Theoretical

10 marks - Practical

5 marks - Evaluation of Non-Graded Assignments and Weekly Laboratory Reports. Final Exam:

40 marks - Theoretical

10 marks - Practical

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Electrical Technology (Edward Hughes)
Main references (sources)	Basic Circuits (A.M.F Brooks) Pergaman Press.
Recommended books and references	Basic Electrical Engineering
(scientific journals, reports)	(Fitzgerald & Rlgginborthan (Mc – Graw – Hill
Electronic References, Websites	The source for the practical material.
	Basic Electrical Engineering

1. Course Name:

English language (1)

2. Course Code:

Nothing

3. Semester / Year:

First I

4. Description Preparation Date:

28/3/2024

5. Available Attendance Forms:

Actual attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

30 hour/annually - 2 units

7. Course administrator's name (mention all, if more than one name)

Name: Hayder Salah Mohammed

Email: hayder.mohammed@atu.edu.iq

8. Course Objectives

To make students able to speak English (listening, speaking, reading and writing). The activities within New Headway Pre- Intermediate are designed to enable pre-intermediate students to extend their knowledge of the language and to allow them to activate what they have learnt. There is also an emphasis on increasing fluency, so that students feel able to actively participate in conversations and discussions. We hope that students will enjoy using the course and that it will give them a real sense of progression in their language learning.

9. Teaching and Learning Strategies

Using Headway will help students listen, speak, read, and write correctly using the English language. It also helps students by watching attached video clips of films or plays so that

they can discuss them after watching. New Headway Pre-Intermediate, Fourth edition is a course for students who already have a solid foundation in the language. They may have recently completed an elementary course or they may be returning to language learning after a break and need to revise key language before being able to progress further. New language is introduced systematically, allowing students to extend and consolidate their knowledge of the language. Listening material is provided across three class CDs. New vocabulary is introduced regularly and this is followed by controlled practice activities, allowing students to immediately activate the language in a supported way. There are also freer practice activities where students can focus on their fluency. In the Everyday English sections, useful chunks of language are presented, which students can use in several different social contexts.

XX/a ala	TT	D		T	
Week	Hours	Required	Unit or subject	Learning	Evaluation method
		Learning	name	method	
		Outcomes			
First	1	Introduction	Give an introduction ab	1-Method of giving	1-Exams of various types
			the syllabus and course	lectures	2- Feedback from students
			topics, and an introduct	2- Student groups	3-The method of expression
			about the English langu	3- Reports and studie	with faces
			aspects and the need for		4- Reports and studies
			for the electrical		
			techniques students		
Second	6	Active Voice	Present, Past and Future	1-Method of giving	1-Exams of various types
+		Verb Tenses	tenses, which each of th	lectures	2- Feedback from students
Seventh			is divided into simple,	2- Student groups	3-The method of expression
			continuous, perfect and	3- Reports and studie	with faces
			perfect continuous tense		4- Reports and studies
Eighth	2	Passive Voice	Present, Past and Future	1-Method of giving	1-Exams of various types
+		Verb Tenses	tenses, which each of th	lectures	2- Feedback from students
Ninth			is divided into simple,	2- Student groups	3-The method of expression
			continuous, perfect and	3- Reports and studie	with faces
			perfect continuous tense		4- Reports and studies
Tenth	1	Coordinating	The use of the	1-Method of giving	1-Exams of various types
		Conjunctions	Coordinating Conjuncti	lectures	2- Feedback from students
,					

10. Course Structure

			in combining two	2- Student groups	3-The method of expression	
			independent sentences		*	
			independent sentences	5- Reports and study	4- Reports and studies	
Eleventh	1	Punctuation	The use of the pupetus	t1 Mathod of giving	1-Exams of various types	
Eleventii	1	Punctuation	-	0 0	• •	
			marks accurately	lectures	2- Feedback from students	
				2- Student groups	3-The method of expression	
				3- Reports and studie		
					4- Reports and studies	
Twelfth	1	-			1-Exams of various types	
		pronunciation	Lightning surges for	lectures	2- Feedback from students	
			testing. Switching surg		3-The method of expression	
			test voltage	3- Reports and studie	with faces	
			characteristics. Insulat	id	4- Reports and studies	
			coordination.			
Thirteen	3	Writing skills	Introducing the	1-Method of giving	1-Exams of various types	
+			professional writing st	ylectures	2- Feedback from students	
Fifteenth			and skills	2- Student groups	3-The method of expression	
				3- Reports and studie	with faces	
					4- Reports and studies	
11.Co	urse Ev	aluation		·		
Daily pre	paration		3			
Daily exa	-		5			
Extracurr		tivities	2			
		am / theoretica				
		exam / theoreti				
Final exa	m / theo	oretical	50			
12.Lea	arning a	nd Teaching	Resources			
Required	textbool	ks (curricular b	books, if any)	Progress in I	English through relevant	
				activities (A	l-shrafa radi).	
				· ·	gram (Ian axelesson).	
					(1411 4101055011).	
Main refe	erences (sources)		Liz and John S	Soars, New Headway	
				Beginner, Oxford	University, 2002.	
Recomm	ended b	ooks and refe	erences (scientific	UNIVERSITY PRESS		
journals,						
J	r	-,				

Electronic References, Websites

www.oup.com/elt

1. Course Name:					
Power Electro	Power Electronics				
2. Course Code:					
3. Semester / Year:					
year					
4. Description Prepar	ration Date:				
2024/03/29					
5. Available Attendance	e Forms:				
Presence					
	ours (Total) / Number of Units (Total)				
150 hours (60 theo	oretical hours + 90 practical hours)				
7. Course administra	tor's name (mention all, if more than one name)				
Name: Ali Akbar Kl					
Email: <u>Ali.mahmoo</u>	<u>d@itu.edu.iq</u>				
8. Course Objectives					
This course aims to provide the	Preparing the student to recognize electronic components				
trainee with the cognitive skills	manufactured from semiconductor materials.				
related to the elements of	• Preparing the student to learn about the analysis of electronic				
power electrons, their	circuits for power electronics systems.				
properties, how to operate	 Identify the applied circuits of power electronics systems. 				
them, and their uses in power	 Preparing human cadres who possess technical qualifications 				
circuits and electrical machines, such as controlled and	that enable them to enter the labor market efficiently.				
uncontrolled unit circuits, direct	 Preparing qualified technical personnel to study and design 				
current interrupters, alternating					
voltage governors, and	electronic circuits as required by the labor market, build electrical				
inverters, in addition to how to	circuits, control and control the operation and manufacture of				
use these circuits in the field of	electronic devices, and convert electrical energy from one type to				
industry. One of the objectives	another according to the required study.				
of this course in the educational	• The specialty aims to graduate competent personnel equipped				
institutions attended by	with all electrical and electronic information enabling them to				
students is:	carry out maintenance work and operate electrical circuits based				
	on electronic designs.				

9. Teaching and Learning Strategies:

- Theoretical lecture
- Practical lecture
- Discussion with students and students among themselves
- Preparing reports and projects related to the scientific material of the lecture
- Summer training in the private and public sectors
- E-Learning
- Using modern methods in teaching and training students
- Forming discussion circles during lectures to discuss study topics
- Assigning students to class duties

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Identify the basic components of power electronics circuits	Power electronic, electronic componts which used in high power control (power diodes, thyristor and power transistors) pevison of single-phase rectifier circuits by using diodes.	Lectures + Practical applications	Daily, monthly, and annual exams
2	5	Identify three- phase rectifier circuits	Three phase rectifier circuits by using diodes, output voltage waveform, diode current waveform, output voltage equation in case of resistance lode.	Lectures + Practical applications	Daily, monthly, and annual exams
3	5	Learn about the use of a transistor as a switch	Using the transistor as switch, regions of operation, transistor as a switch (cut off and saturation).	Lectures + Practical applications	Daily, monthly, and annual exams
4	5	Learn about improving the opening and closing of a transistor	Power transistor in (off)and (on) state, improvement of (off) and (on) time by using speed up capacitance, practical problems.	Lectures + Practical applications	Daily, monthly, and annual exams

			Uniplolor junction transistor,	Lectures	
5	5	Identify the bipolar	construction, theoretical operation,	+	Daily, monthly,
		transistor	using the transistor as relaxation	Practical	and annual exams
			oscillator practical example.	applications	
		.	operational amplifier, description	Lectures	
6		Learn how to use an	of operational amplifier (op-amp)	+	Daily, monthly,
6	5	operational	as asparate components, zero	Practical	and annual exams
		amplifier	detector, comparator.	applications	
			The use of op-amp as actable	Lectures	
7		Learn how to use an	multivibrator and a monostable	+	Daily, monthly,
7	5	operational	multivibrator, photo conduction	Practical	and annual exams
		amplifier	cells, photo diodes.	applications	
			Light – emitting diodes (LED),	Lectures	
8	_	Learn about the use of the LED	photo transistors, the use of optical	+	Daily, monthly,
0	5	electronic	comparator in power electronic	Practical	and annual exams
		element	circuits.	applications	
			Thyristor, construction,	Lectures	
9	_	Learn about the	characteristic, curves for a thyristor, thyristor conduction in forward	+	Daily, monthly,
9	5	use of thyristor properties	biasing, thyristor family, thyristor	Practical	and annual exams
		properties	representation as a double transistor circuit.	applications	
			Thyristor conduction methods,		
			conduction throw the gate	Lectures	
10		Learn about	minimum gate current causing	+	Daily, monthly,
10	5	ways to connect thyristors	conduction, conduction time,	Practical	and annual exams
			conduction due to high forward	applications	
			voltage rectifier (dv/dt)		
			DIAC, TRIAC characteristics,	Lectures	
		Learn about	practical applications, thyristor,	+	Doily monthly
11	5	Dayak and	triggering methods, triggering on		Daily, monthly,
		Trayak	DC and AC current, pulse	Practical	and annual exams
			triggering types	applications	

12	5	Learn about the methods of thyristor switching	thyristor triggering circuit, DC and AC triggering circuits.	Lectures + Practical applications	Daily, monthly, and annual exams
13	5	Learn about mug pulse circuits	Pulse current triggering circuit, relaxation oscillator, zero detector, comparator with a stable and monostable multivibrators (operational amplifiers and timer).	Lectures + Practical applications	Daily, monthly, and annual exams
14	5	Learn about thyristor applications	Thyristor general application introductory, AC to DC inverter DC to AC inverter, DC to DC inverter, AC to AC inverter, phase controlled halfwave rectifier with resistance and indctormce load output current and voltage waveform , output voltage equations	Lectures + Practical applications	Daily, monthly, and annual exams
15	5	Identify the semi-controlled thyristor rectifier	Half controller full wave rectifier fully controlled, resistance and inductance load , generated wave forms, output voltage equation for free wheeling diode.	Lectures + Practical applications	Daily, monthly, and annual exams
16	5	Identify the fully controlled thyristor rectifier	Regenerating fully controlled inverters, examples, DC motor speed control.	Lectures + Practical applications	Daily, monthly, and annual exams
17	5	Identify the three-phase thyristor inverter	Three face inverters, output voltage wave form with, triggering pulses and equations.	Lectures + Practical applications	Daily, monthly, and annual exams

		1			n
			Thyristor protection from the high-		
		Identify	rate change in current and voltage,	Lectures	
18	5	thyristor	protection from the transient	+	Daily, monthly,
	5	protection circuits	change in source voltage, fully	Practical	and annual exams
		circuits	protection circuit from all possible	applications	
			faults due to current and voltage.		
				Lectures	
19	-	Identify thyristor	DC to AC inverters methods of	+	Daily, monthly,
19	5	suppression	forcing the thyristor to get off.	Practical	and annual exams
		circuits		applications	
			Parallel and series inverter, single	Lectures	
20	_	Identify series and parallel	and three phase, control methods in	+	Daily, monthly,
20	5	thyristor	charging frequency and voltage,	Practical	and annual exams
		inverter circuits	output wave forms.	applications	
			Inventor englissition ensurement	Lectures	
21		Identify series and parallel	Inverter application, emergency	+	Daily, monthly,
21	5	thyristor	power supply, single phase DC	Practical	and annual exams
		inverter circuits	motor speed control.	applications	
			Three phase motor control by using	Lectures	
22	-	Learn about		+	Daily, monthly,
22	5	ways to control motors	a constant ratio of variation frequency and voltage.	Practical	and annual exams
			frequency and voltage.	applications	
				Lectures	
23	_	Identify	Choppers, DC to DC inverter	+	Daily, monthly,
23	5	thyristor circuits	frequency constant, line constant	Practical	and annual exams
				applications	
				Lectures	
24	_	Identify the	Types of choppers, DC motor speed	+	Daily, monthly,
24	5	types of clips	control.	Practical	and annual exams
				applications	
		Learn about	AC to AC inverter, single phase	Lectures	Daily, monthly,
25	5	voltage	voltage regulator, three phase	+	and annual exams
		regulators	voltage regulator	1	and annual exams
		regulators	voltage regulator		

				Practical	
				applications	
26	5	Learn about methods of controlling single-phase and three-phase motors	General application on single and three induction motor speed control due to the change in stat or voltage, using the closed loop feedback circuit to control the slippery rings of AC motor.	Lectures + Practical applications	Daily, monthly, and annual exams
27	5	Learn about frequency modulator circuits	Cyclic inverter, AC to DC cyclic inverter, DC to DC cyclic inverter.	Lectures + Practical applications	Daily, monthly, and annual exams
28	5	Identify circuits of inverters, structure diagrams	AC to AC cyclic inverter control block diagram.	Lectures + Practical applications	Daily, monthly, and annual exams
29	5	Learn about PWM	Using amplitude modulation for speed control.	Lectures + Practical applications	Daily, monthly, and annual exams
30	5	Identify the unipolar transistor	Using polar transistor for AC motor speed control .	Lectures + Practical applications	Daily, monthly, and annual exams
11. C	ourse E	Evaluation			

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and To	eaching Resources
Required textbooks	
(curricular books, if any)	
Main references	Electrical Technology (Edward Hughes)
(sources)	• Basic Circuits (A.M.F Brooks) Pergaman Press.
	• Introduction to Electric circuits (M. Romanwitz) John Willy
	• Basic Electrical Engineering (Fitzgerald & Rlgginborthan) Mc – Graw – Hill
	 المصدر للمادة العملية
	• Electrical Technology (Edward Huges)
	Basic Electrical Engineering
	 الكترونيات في خدمة التطبيقات الكهربائية ترجمة الدكتور سمير رستم
	 Power electronics handbook, Third edition, Muhammad H. Rashid,
	Elsevier,2011.
	 دليل المهندس والفني في العناصر الكهربائية والالكترونية، محمد قاسم، شعاع للنشر
	والعلوم، 2012.
	 Power Electronics Basics, YuriyRozanov, Sergey E. Ryvkin, EvgenyChaplygin,
	Pavel Voronin, CRC Press, 2015
	• Introduction to Power Electronics, Paul H. Chappell, Artech House, 2014.
Recommended books	 مشروع كتاب الدوائر والقياسات
and references	 مبادئ علم الهندسة الكهربائية / دكتور محمد زكي – دكتور مظفر النعمة
(scientific journals,	 ملزمة الدوائر والقياسات العملي
reports)	Advanced industrial electronics by morris
	• Thyristor engineering by B.B. berde
	الكترونيات القدرة (تأليف الدكتور مظفر أنور النعمة)
Electronic References,	Various Internet sources
Websites	

1. C	ourse Name :
	English language (2)
2. C	ourse Code:
	Nothing
3. Se	emester / Year:
	Second II
4. D	Description Preparation Date:
	18/2/2024
5. A	vailable Attendance Forms:
	Actual attendance
6. N	(umber of Credit Hours (Total) / Number of Units (Total):
	60 hour/annually - 2 units
7. C	ourse administrator's name:
N	ame: HUSSEIN HAMID NEAMAH; Email: hussein.neamah@atu.edu.iq

8. Course Objectives

To make students able to speak English (listening, speaking, reading and writing). The activities within New Headway Pre- Intermediate are designed to enable pre-intermediate students to extend their knowledge of the language and to allow them to activate what they have learnt. There is also an emphasis on increasing fluency, so that students feel able to actively participate in conversations and discussions. We hope that students will enjoy using the course and that it will give them a real sense of progression in their language learning.

9. Teaching and Learning Strategies

Using Headway will help students listen, speak, read, and write correctly using the English language. It also helps students by watching attached video clips of films or plays so that they can discuss them after watching. New Headway Pre-Intermediate, Fourth edition is a course for students who already have a solid foundation in the language. They may have recently completed an elementary course or they may be returning to language learning after a break and need to revise key language before being able to progress further. New language is introduced systematically,

allowing students to extend and consolidate their knowledge of the language. Listening material is provided across three class CDs. New vocabulary is introduced regularly and this is followed by controlled practice activities, allowing students to immediately activate the language in a supported way. There are also freer practice activities where students can focus on their fluency. In the Everyday English sections, useful chunks of language are presented, which students can use in several different social contexts.

10. Co	10. Course Structure						
		Required					
Week	Hours	Learning	Unit or subject name	Learning method	Evaluation method		
		Outcomes					
First + second	2	The theme of this first unit is getting to know people. It provides general revision of key tenses and question forms, and Granted the opportunity to assess new students'	 Tense revision Right word, wrong word Social expressions 	1-Method of giving lectures 2- Student groups 3- Reports and studies	1-Exams of various types 2- Feedback from students 3-The method of expression with faces 4- Reports and studies		
		students to personalize the key language.					

		The main grammar			
		focus is on present			
		tenses, and have			
		and have got in			
		contrast. Skills			
		work includes			
		integrated reading			
		and speaking, and			
		listening and			
Third		speaking practice.	Whatever makes you		
+	2	The Everyday	happy.	1-Method of giving	1-Exams of various types
Fourth		English section	• Present tenses	lectures	2- Feedback from students
		introduces and	• have/have got	2- Student groups	3-The method of expression
		practices ways of	• Things I like doing	3- Reports and studies	with faces
		keeping a	 Making conversation 		4- Reports and studies
		conversation going.			
		Writing syllabus			
		continues with a			
		focus on style			
		and synonyms in a			
		task based on			
		writing a postcard.			
		The theme of this			
		unit is telling stories			
		The Past Simple is			
		revised and the Past			
		Continuous			
		introduced in the			
		context of the story			
		of an adventurer,			
Fifth		and there are a	What's in the news?	1-Method of giving	1-Exams of various types
+	2	number of news	• Past Simple and	lectures	2- Feedback from students
Sixth		stories to	Continuous	2- Student groups	3-The method of expression
		contextualize and	• Adverbs	3- Reports and studies	with faces
		practice the main	Saying when		4- Reports and studies
		language.			

The Listening and		
speaking section		
focuses on radio		
news, and the		
Reading and		
speaking has a		
human interest		
story that achieved		
worldwide		
coverage on the		
Internet. The		
Vocabulary section		
focuses on adverbs		
and their position		
in a sentence, both		
adverbs of manner		
that end in -Iy, and		
other adverbs. The		
Everyday English		
section deals with		
time expressions -		
saying dates and		
using the correct		
preposition. The		
Writing section		
consolidates the		
tenses and use of		
adverbs in a story-		
building task.		
The theme of this		
unit is food, drink,		
and eating out. In		
the opening section,		
expressions of		
quantity are		
introduced in		
the context of		
	1	

		a couple with an			
		unusual diet. In a			
		separate			
		presentation			
		about a man who			
		lived to a great age,			
		there is revision			
		and extension of			
		the use of articles			
		in English. The			
		Reading and			
Seventh		speaking is about			
+	2	three unusual	Eat, drink, and be merry!	1-Method of giving	1-Exams of various types
eighth		places to eat.	•Expressing quantity.	lectures	2- Feedback from students
		The Vocabulary	•something/no one	2- Student groups	3-The method of expression
		and listening covers	• Articles	3- Reports and studies	with faces
		parities	• A piece of		4- Reports and studies
		(a loaf of ,	•Can you come for dinner?		
		a piece of, etc.)			
		and includes six			
		conversations set in			
		different shops. The			
		Everyday English			
		has a focus on			
		requests and offers			
		made at a dinner			
		party and in other			
		contexts. The			
		Writing syllabus			
		continues with			
		practice of linking			
		words in an email-			
		writing task.			
		The themes of			
		hopes, ambitions,			
		and plans provide			
			•		

Image: state of the presentation and practice of verb patterns and ways of talking about the future. Image: state of the state o						
Ninth - <th></th> <th></th> <th>the context for the</th> <th></th> <th></th> <th></th>			the context for the			
Ninth patterns and ways of talking Available about the future. Going to, will, and Continuous for future. Going to, will, and he Present. Continuous for future. Continuous for future. are contrasted. The skills practice includes a Listening and Listening and steing 20-something. Verb patterns cetures 2- Feedback from students print speaking section on Looking forward 1-Method of giving 1-Fxams of various types remain 20-something. Verb patterns cetures 2- Feedback from students on a girl who has FExpressing doubt and hope for the future. 4- Reports and studies recreasing section on Pressing doubt and ind certainty. 4- Reports and studies Fveryday English practices the language of expressing doubt and certainty. Intervining is yillabus continues syllabus continues with a section on writing to prepare at on my dreams for the future'. int is describing south and its is describing south and its is describing and its is describing ausclutents. int is is describing ausclutents. no my dreams for the future'. Inthe theme of this ausclut ontext to practice the			presentation and			
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Ninth the Present Continuous for future are contrasted. The skills practice includes a Listening and speaking section on Looking forward 1-Method of giving 1-Exams of various types Ninth being 20-something, •Verb patterns tectures 2- Feedback from students + 2 and a Reading and • Future forms 2- Student groups 3-The method of expression renth speaking section • Parsal verbs 3- Reports and studies with faces renth a girl who has • Expressing doubt and hope for the future. - Reports and studies 4- Reports and studies practices the language of expressing doubt and certainty. The Writing syllabus continues - Reports and studies - Reports and studies on 'ny dreams for he future'. - Note forture - Reports and studies - Reports and studies n'ny dreams for he future'. - Reports and studies - Reports and studies - Reports and studies n'ny dreams for he future'. - Reports and studies - Reports and studies - Reports and studies n'ny dreams for he future'. - Reports and studies - Reports and studies - Reports and studies n'ny dreams for he future'.			about the future.			
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		unit - What like?,			
		comparatives and			
		superlatives. The			
		text in the Reading			
		and speaking			
		section describes			
		the multicultural			
		diversity of London.			
		the Listening and			
Eleventh		speaking section,			
+	2	three people talk	The way I see it		
twelfth		about who they	•What like?	1-Method of giving	1-Exams of various types
		most resemble in	 Comparatives and 	lectures	2- Feedback from students
		their family. The	superlatives	2- Student groups	3-The method of expression
		Everyday English	 Synonyms and antonyms 	3- Reports and studies	with faces
		syllabus continues	•What~ on?		4- Reports and studies
		with the language			
		for talking about			
		what's on in a cit)			
		and the Writing			
		section practices			
		relative pronouns in			
		context of describing			
		your hometown.			
		The theme of living			
		history provides an			
		ideal context for the			
		presentation and			
		practice of the			
		Present Perfect			
		Because it shows			
Thirteen	_	_	Living history	1-Method of giving	1-Exams of various types
+	2	with the present.	•Present Perfect		2- Feedback from students
Fourteen		The first grammar	• for and since	2- Student groups	3-The method of expression
		presentation	• ever and never	3- Reports and studies	with faces
		highlights the	Word formation		4- Reports and studies
		'unfinished past'	•Agree with me!		

use of the Present		
Perfect. The second		
highlights the		
'experience' use of		
the Present Perfect. T		
theme of living		
history is carried		
through the skills		
practice with a		
Reading section on		
living in a stately		
home, and a		
Listening and		
speaking section		
on researching your		
family history.		
Vocabulary		
practice is on the		
use of suffixes in		
word formation and t		
Everyday		
English section is		
on the use of		
question tags when		
asking for		
agreement. The		
Writing syllabus		
continues with		
writing a		
biography of a		
famous person.		
This unit looks at		
aspects of gender		
from a range of		
perspectives and		
introduces the		

Sixteenti a Listening and speaking section on have to/don't have to should/must lectures 2 - Feedback from student 3 - The method of expression and a Reading and a Reading and a Reading and a Reading and a Reading and a the doctor's 3 - Reports and studies 3 - The method of expression with faces 4 - Reports and studies - Reports and studies - Reports and studies - Reports and studies families with very different profiles. - at the doctor's - Reports and studies - Reports and studies Vocabulary practice is on things to wear, and the Everyday - at the doctor's.					
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Fifteenth i presentation focuses have to/ don't have i to and the second presents should and must. Skills i fifteenth practice is provided i i 1-Method of giving 1-Exams of various types Sixteenth a Listening and o have to/don't have to lectures 2- Feedback from student speaking section of should/must 2- Student groups 3-The method of expressi with faces and a Reading and • at the doctor's 3- Reports and studies with faces and a Reading and • at the doctor's 4- Reports and studies 4- Reports and studies yoaching section of families with very different profiles. 4- Reports and studies 4- Reports and studies yoaching the Exeryday English section 1- Exeryday 4- Reports and studies 4- Reports and studies used at the doctor's. Writing practice is on 4- Reports and chails 4- Reports and studies 4- Reports and studies used at the doctor's. Writing practice is 4- Reports and studies 4- Reports and studies used at the doctor's. Writing practice is 4- Reports and studies 4- Reports and studies		obligation and			
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Fifteenth - practice is provided i - <		presents should			
+ 2 the form of a Listening and speaking section on speaking section on a female heptathlete and a Reading and families with very different profiles. Vocabulary practice is on things to wear, and the Everyday English section focuses on the functional language used at the doctor's. Writing practice is provided with a section on formal letters and emails. 1-Method of giving lectures 1-Exams of various types 2-Feedback from student 2-Student groups 3-Reports and studies + 2 Feedback from student 2-Student groups 3-The method of expressi with faces - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<		and must. Skills			
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Image: Image of the story		the Everyday			
Image:		English section			
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storytelling in different genres. Both grammar		This unit looks at			
different genres. Both grammar		the theme of			
Both grammar		storytelling in			
		different genres.			
		Both grammar			
sections use		sections use			
adaptations of		adaptations of			

		a fable by Aesop to			
		contextualize the			
		target language of			
		narrative tenses and			
		Past Perfect, and			
		conjunctions of			
		time, result. reason,			
		and contrast. Skills			
		practice is in the			
		form of a Listening			
		and speaking			
		section on two			
Seventee		classic writers, and			
+	2	a Reading and	Time for a story	1-Method of giving	1-Exams of various types
Eighteen		speaking section	•Past Perfect and narrative	lectures	2- Feedback from students
		with a picture story of	tenses	2- Student groups	3-The method of expression
		The Strange Case	 Joining sentences 	3- Reports and studies	with faces
		of Or Jekyll and	Feelings		4- Reports and studies
		Mr Hyde.	• Exclamations		
		Vocabulary practice			
		is on adjectives that			
		describe feelings			
		and the Everyday			
		English focuses on			
		exclamations with			
		so and such. The			
		Writing section			
		carries through the			
		theme of stories			
		with tasks to help			
		students write a			
		review of a book or			
		film.			
		The themes of this			
		unit are			
		communication and			
		technology. The			
	-				

		story of the			
		development of the			
		mobile phone			
		is used to			
		contextualize and			
		practice passives.			
		The Vocabulary			
		syllabus continues			
		with a focus on			
		collocation.			
		The Reading and			
		speaking section			
nineteen		carries through the			
+	2	theme with an	Our interactive world	1-Method of giving	1-Exams of various types
Twenty		article about five firs	•Passives	lectures	2- Feedback from students
		on the Internet.	 Compound nouns 	2- Student groups	3-The method of expression
		In the Listening and	• Words that go together	3- Reports and studies	with faces
		speaking section, a	• On the phone		4- Reports and studies
		man complains			
		about aspects of			
		modern life.			
		Everyday English			
		practices useful			
		telephone language,			
		the Writing section			
		focuses on planning			
		linking ideas in a			
		pros and cons essay.			
		The overall theme			
		of this unit is life's			
		ups and downs.			
		The story of an			
		extraordinary music			
		teacher provides the			
		context for			
		contrasting the			
		Present Perfect			

		Simple and Present			
		Perfect Continuous.			
		Tense practice is			
		also provided in an			
		information gap on			
		the singer Charlotte			
		Church. Listening			
		and speaking gives			
		further consolidation			
		the main tenses			
Twenty-		with a focus on two			
One		friends who haven't	Life's what you make it!		
+	2	since school.	•Present Perfect	1-Method of giving	1-Exams of various types
Twenty-		Reading and	Continuous • Tense	lectures	2- Feedback from students
two		speaking has a	Review	2- Student groups	3-The method of expression
		focus on four	• Birth, marriage, and death	3- Reports and studies	with faces
		generations of	Good news, bad news		4- Reports and studies
		the Getty family.			
		The Vocabulary and			
		listening and			
		Everyday English			
		sections are			
		linked by practicing			
		vocabulary			
		of birth, marriage,			
		and death, and the			
		language of giving			
		good and bad news.			
		Writing section			
		focuses on filling			
		in forms			
		The theme of this			
		unit is thinking			
		about the future and			
		what will or might			
		happen. This provide			
		the context for the			

		two grammar			
		presentations,			
		starting with the			
		first conditional and			
		might, and moving			
		on to the second			
		conditional.			
		In the Listening and			
		speaking section,			
		two people			
		speculate about			
		changes they face			
		in their lives. The			
Twenty-		Reading and			
Three		speaking section			
+	2	focuses on the	Just wondering	1-Method of giving	1-Exams of various types
Twenty-		wonders of the	•If + will/might/would	lectures	2- Feedback from students
four		Universe. The	conditionals	2- Student groups	3-The method of expression
		Vocabulary section	 Prepositions 	3- Reports and studies	with faces
		focuses on	Thank you and goodbye!		4- Reports and studies
		prepositions, and			
		Everyday English			
		practices the			
		language of saying			
		thank you and			
		goodbye. The			
		Writing syllabus			
		concludes with			
		a focus			
		on note-taking.			
		You are part of the			
		editorial team of a			
Twenty-			What's Important to me?	1-Method of giving	1-Exams of various types
Five		-	 Think about your past, pres 		2- Feedback from students
+	2		or future and write a note	2- Student groups	3-The method of expressio
Twenty-		important. In groups		3- Reports and studies	
six		four, discuss which a	• Spot the difference		4- Reports and studies

		the four top stories for	•Today's top headlines		
		tomorrow's newspap			
		Choose the top head			
		for the front page.			
		Compare your front			
		page headlines with			
		other editorial teams			
		Give reasons for you			
		choices.			
		This focus of this	Snakes and ladders	1-Method of giving	1-Exams of various types
		stage is common	•Phrasal verbs pair-up	lectures	2- Feedback from students
		collocations of	•What's it like?	2- Student groups	3-The method of expressio
		noun + preposition.	•How long have you ?	3- Reports and studies	with faces
		Pre-teach/check recip			4- Reports and studies
		central heating,			
Twenty-		damage l'dcemrd3/,			
Seven		butterflies, and cure.			
+	2	Elicit the			
twenty-		answer to number 1			
eighth		an example. Give			
		students time to			
		complete the			
		sentences, then check			
		the answers. As an			
		extension, you could			
		students to use three			
		four of the collocation			
		in a series of sentence			
		or a short			

		Cognitive outcomes				
		Elicit the opening lin				
		of each conversation				
		(see Answers below)				
		Tell students that the	Passives quiz	1-Method of giving	1-Exams of various types	
Twenty-		are a different	 Present Perfect picture 	lectures	2- Feedback from students	
Nine		number of lines in	race	2- Student groups	3-The method of expression	
+	2	each conversation.	•Thank you and goodbye	3- Reports and studies	with faces	
Thirty		Give them time to do the ordering task, either working in groups or moving round the class in a mingle.			4- Reports and studies	
11. Course Evaluation						
Daily pr	Daily preparation3					
Daily exams			5			
Extracurricular activities			2			
First sen	nester e	xam / theoretical - 1	20			
Second semester exam / theoretical - 2			2 20			
Final exam / theoretical			50			

12. Learning and Teaching Resources

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