Republic of Iraq
The ministry of higher
Education & scientific Research



### Academic program description form

**University name: University of Anbar** 

**College/Institute: College of Arts** 

Scientific Department: Department of .....Geography

Name of the academic or professional program:

Bachelor's degree...Geography

Name of the final degree: Bachelor's degree in

Geography

Academic system: semester

**Description preparation date: 3/7/2024** 

Date of filling the file: 3/7/2024

the signature :

the date: Name of department head:

**Yassin Hamid Bida** 

Name of Scientific Assistant: Asst. Prof. Omar Sadoon Ayyed

Date: 7/3/2024

Signature:

Checked by Division of Quality Assurance and University Performance Name of the Director of the Quality Assurance and University Performance Division: Salah Adnan Mijuel

Date: 14/4/2024

Signature

Authentication of the Dean Prof. Dr. Arif Abed Sayel

### **Program vision** .1

The College of Arts seeks to prepare graduates in the field of geography to work in government departments and benefit from specialization in the practical and applied field

### Program message .2

Working to prepare and graduate leading scientific and leadership competencies in the field of geography and to develop the balance of knowledge in the field of scientific research in the field of geography in order to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market

### **Program objectives** .3

Preparing distinguished graduates in the various fields of natural and human geography and qualifying them
\_1
.scientifically and professionally

Providing graduates with applied practical skills in the branches of geography to meet the needs of the labor -2 .market. According to scientific developments taking place in various geographical fields

Preparing graduates to participate effectively in building society and conducting scientific research related to the -3 branches of geography, societal issues and its basic problems, and in a way that provides evaluation and solutions to .those problems

Graduate students will be eligible to complete postgraduate studies in accordance with the established -4 instructions

## **Programmatic accreditation** .4

nothing

#### Other external influences .5

nothing

ram structure .6	Program structure .6												
Program structure	Number of courses	Study unit	percentage	* comments									
<b>Enterprise requirements</b>	45	45		Basic course									
College requirements	Yes												
Department requirements	Yes												
summer training	nothing												
Other													

<sup>.</sup>Notes may include whether the course is core or elective \*

		Program	Program description .7				
Cr	edit hours	Name of the course or	Course or course	Year/level			
		course	code				
1	2	Principles of weather		The first			
		science Foundations of		The first			
1	2			The first			
	_	cartography		The first			
	2	Geographic thought					
	2	Foundations of geology		The first			
	2	Regional geography of		The first			
		Australia					
	2	Contemporary history		The first			
	_	of Iraq					
	2	Arabic		The first			
	2	Principles of computer		The first			
		science					
	2	Human rights and		The first			
		democracy					
	2	Foundations of		The first			
	_	geomorphology					
	2	Foundations of climate		The first			
		science					
	2	Regional geography of		The first			
		Africa					
	2	Public space		The first			
	2	Geographic statistics		The first			
	2	English language		The first			
	2	Remote Sensing		The first			
	2	Geography of Asia		The first			
	3	Applied geomorphology		the second			
	3	Thematic maps		the second			
	3	Soil geography		the second			

	3	Quantitative methods	the second
	3	Social geography	the second
	3	the computer	the second
	3	Geography of Europe	the second
1	2	Applied climate	the second
	3	Remote Sensing	the second
	3	Geography of the Arab world	the second
	2	Agriculture geography	the second
	3	C- Transportation	the second
	3	Geography of natural resources	the second
	2	Arabic	the second
	3	English	Third
	3	The crimes of the Baath regime	Third
	3	Geography of North America	Third
	3	Local climate	Third
	3	Geographic information systems	Third
	3	Energy geography	Third
	3	Geography of cities	Third
	3	Life geography	Third
	3	English language	Third
	3	Natural field study	Third
	3	Geography of South America	Third
1	2	weather changes	Third
1	2	Application project using Gis	Third
	2	Geography of water resources	Third
	2	Geography of health and environment	Third
	3	Population geography	Fourth
	3	Human field study	Fourth
	3	Natural geography of Iraq	Fourth
	3	Industry geography	Fourth
	3	Environmental problems	Fourth
	3	Geomatics	Fourth
	3	Dry regions	Fourth

3	Political geography	Fourth
3	Geography of seas and oceans	Fourth
3	Industrial location theories	Fourth
2	Planning and development	Fourth
3	Human geography of Iraq	Fourth
2	Geography of services	Fourth

Expected learning outcomes of the program .8
Knowledge
A- Knowledge
A1- The student will have the ability to know and understand the principles, theories and basics in the field of geographical studies
A2- The student will have the ability to understand modern and advanced scientific topics in the disciplines of natural and human .geography
A3- The student will be able to understand modern scientific .research methods
A4- The student will be able to evaluate and monitor the
problems facing society in a manner consistent with the
nature of geographical studies
Skills
.B1 - Monthly and quarterly written examinations
.(B2 - Quick exams (Quizzes
.B3- Writing scientific reports
B4- Using blackboards
Value
Developing students' abilities to share ideas

<b>Teaching and learning strategies</b> .9
.Daily theoretical lectures -1
.Practical lectures -2
Laboratories and field visits -3
Use means of explanation -4

## .Graduation projects for fourth-year students and their discussion -5

### **Evaluation methods**.10

The received homework assignments are corrected, as well as the scientific -1 .reports submitted by the students are evaluated

. Permanent tests for students throughout the semester  $\,$  -2  $\,$ 



The teaching staff.11												
Faculty members												
Preparing	the teaching staff	Special requirements/skills (if (any	Spe	cialization	Scientific rank							
the permanent	personnel		private	general								
permanent			Agricultural	Human geograp hy	استاذ . كمال صالح كزكوز جباس							
permanent			Industrial	Human geograp hy	استاذ. یاسین حمید بدع یاسین							
permanent			maps	Human geograp hy	استاذ. یاسین حمید بدع یاسین استاذ. احمد سلمان حمادی عبطان							
permanent			Geographic thought	Human geograp hy	استاذ. كمال عبد الله حسن زيدان							
permanent			Water resources	Natural geograp hy	استاذ قاسم احمد رمل درج							

permanent	Agricultural	Human	
		geograp hy	استاذ. طه احمد عبد عبطان
permanent	climate	Natural geograp hy	أستاذ مساعد. طالب احمد عبدالرزاق عاشور
permanent	Political	Human geograp hy	أستاذ مساعد. احمد داود حميد محمود
permanent	climate	Natural geograp hy	أستاذ مساعد. حميد رجب عبدالحكيم عبدالله
permanent	Geomorpho logy	Natural geograp hy	أستاد مساعد مجد موسى حمادي صالح
permanent	Geomorpho logy	Natural geograp hy	أستاذ مساعد. وليد حنوش حمد عويد
permanent	Population	Human geograp hy	أستاذ مساعد. قيصر عبدالله احمد فرحان
permanent	Agricultural	Human geograp hy	أستاذ مساعد. احمد هلال حمود على
permanent	Agricultural	Human geograp hy	أستاذ مساعد. آمنه جبار مطرّ درویش
permanent	Geomorpho logy	Natural geograp hy	أستاذ مساعد سعدون مشرف حسين جديع
permanent	Energy geography	Human geograp hy	أستاذ مساعد صلاح عدنان مجول شلال
permanent	Geography of cities	Human geograp hy	أستاذ مساعد. هدى حسين علي سعيد
permanent	Geomorpho logy	Natural geograp hy	مدرس اليث سعدي عفتان مشعان
permanent	Computer Science	Comput er Science	مدرس مساعد. ثائر خیرالله عصمان حسین
permanent	maps	Human geograp hy	مدرس.خالد ابر اهیم حسین عبید
permanent	Geomorpho logy	Natural geograp hy	مدرس مساعد زیاد فریح مطر عباس
permanent	Water resources	Natural geograp hy	مدرس دكتور لؤي ماهر حماد

Professional development
Orienting new faculty members
Professional development for faculty members

# Acceptance criterion.12

The most important sources of information about the program. 13

## Program development plan.14

Using new concepts in the field of geography and using electronic devices to present -1 information and issues

Introducing modern foreign sources, learning about the latest scientific products, and .keeping pace with scientific and technical development in the world

								P	rogra	m skil	ls cha	art			
	Le	arning	outcom	es req	uired	from	the p	rogra	ımme						
	القيم						Skills		Knowledge		Essential or <sup>9</sup> optional	Course Name	Course Code	Year/level	
4 <b>C</b>	3 <b>C</b>	2 <b>C</b>	1 <b>C</b>	4 <b>B</b>	3 <b>B</b>	2 <b>B</b>	1 <b>B</b>	4 <b>A</b>	3A	A2	1 <b>A</b>				_
	V	V	V	V	V	V	V	V	V	V	V	Basic	Principles of weather science		The first
	V	V	V	V	V	V	V	V	V	V	V	Basic	Foundations of cartography		
	V	V	V	V	V	V	V	V	V	V	V	Basic	Geographic thought		The first
	V	V	V	V	V	V	V	V	V		V	Basic	Foundations of geology		
	V	V	V	V	V	V	V	V	V	V	V	Basic	Regional geography of Australia		The first
	V	V	V	V	V	V	V	V	V	V	V	Basic	Contemporary history of Iraq		
	V	V	V	V	V	V	V	V	V	V	V	Basic	Arabic		The first

V	V	V	V	V	V	V	V	V	V	V	to choose	Principles of computer science	The first
V	V	V	V	V	V	V	V	V	V	V	Basic	Human rights and democracy	The first
V	$\sqrt{}$	V	V	V	V	V	V	V	$\sqrt{}$	V	Basic	Foundations of geomorpholog y	The first
V	V	V	V	V	V	V	V	V	V	V	Basic	Foundations of climate science	The first
V	V	V	V	V	V	V	V	V	$\sqrt{}$	V	Basic	Regional geography of Africa	The first
V		$\sqrt{}$	V	V	V	1	V	V	V	V	Basic	Public space	The first
V		V	V	V	V	V	V		V	V	Basic	Geographic statistics	The first
V		V	V	V	V	V	V	V	V	V	Basic	English language	The first
V		V	V	V	V	V	V	V	V	V	Basic	Remote Sensing	The first
V	V	V	V	V	V	V	V		V	V	to choose	Geography of Asia	The first

V	V	V	V	V	V	V	V	V		V	Basic	Applied geomorpholog	the second
V	V	V	V	V	V	V	V	V	V	V	Basic	Thematic maps	the second
$\sqrt{}$	$\sqrt{}$	√	V	V	V	1	V	V	V	√	Basic	Soil geography	the second
V	V	√	V	V	V	1	V	1	V	<b>1</b>	Basic	Quantitative methods	the second
V	V	√	V	V	V	1	V	1	V	√	Basic	Social geography	the second
		V	V	V	V	V	V	V	$\sqrt{}$	V	Basic	the computer	the second
V	V	√	V	V	V	1	V	1	V	√	Basic	Geography of Europe	the second
		V	V	V	V	1	V	V	V	V	Basic	Applied climate	the second
V	V	V	V	V	V	V	V	V	V	1	Basic	Remote Sensing	the second
$\sqrt{}$	V	V	V	V	V	V	V	$\sqrt{}$	$\sqrt{}$	V	Basic	Geography of the Arab world	the second
V	V	V	1	V	V	V	V	V	V	1	Basic	Agriculture geography	the second
V		V	V	V		V	V	1	V	√ 	Basic	C- Transportation	the second

V	V	V	V	V	V	$\sqrt{}$		V		V	Basic	Geography of natural resources	the second
V	V	$\sqrt{}$	V	V	V	V	V	V		V	Basic	Arabic	the second
V	V	V	V	V	V	V	V		V	V	Basic	English	Third
V	V	V	V	V	V	V	V	V	V	V	Basic	The crimes of the Baath regime	Third
V	V	V	V	V	V	V	V	V	V	V	Basic	Geography of North America	Third
V	V		V	V	V	V	V	V		1	Basic	Local climate	Third
V	V	V	V	V	V	V	V	V	V	V	Basic	Geographic information systems	Third
V	V	V	V	V	V	V	V		V	V	Basic	Energy geography	Third
$\sqrt{}$	V	V	V	V	V	V	V	V	$\sqrt{}$	V	Basic	Geography of cities	Third
$\sqrt{}$	V	V	V	V	V	V	V	V	$\sqrt{}$	V	Basic	Life geography	Third
V	V			V		V	V			√	Basic	English language	Third

	V	V	V	V	V	V	V	V	V	V	Basic	Natural field study	Third
V	V	V	V	V	V	V	V	V	V	V	Basic	Geography of South America	Third
V	V	V	V	V	V	V	V	V	V	V	Basic	weather changes	Third
V	V	V	V	V	V	V	V	V	V	V	Basic	Application project using Gis	Third
V	V	V	V	V	V	V	V	V	V	V	Basic	Geography of water resources	Third
V	V	V	V	V	V	V	V	V	V	V	Basic	Geography of health and environment	Third
V	V	1	V	1	V	V	V	V	V	V	Basic	Population geography	Fourth
V	V	V	V	V	V	V	V	V	V	V	Basic	Human field study	Fourth
	$\sqrt{}$		$\sqrt{}$	V	V	V		V	V	$\sqrt{}$	Basic	Natural geography of Iraq	Fourth
 V	V	V	V	V	V		V	V	V	V	Basic	Industry geography	Fourth
		√	1	V			V	V		V	Basic	Environmental problems	Fourth

V	V		V	V	V	V	1	V	V	1	Basic	Geomatics	Fourth
V	V		V	V	V	V	1	1	V	1	Basic	Dry regions	Fourth
V	$\sqrt{}$		$\sqrt{}$	V	V	V	V	V	V	V	Basic	Political geography	Fourth
V	V		V	V		$\sqrt{}$	V	V	V	1	Basic	International theories	Fourth
V	V	V	V	V		$\sqrt{}$	V	V	V	V	Basic	Geography of seas and oceans	Fourth
V	V	V	V	V	V	V	V	1	V	1	Basic	English language	Fourth
V	V		$\sqrt{}$	V	V	V	V	V	V	V	Basic	Graduation Project	Fourth
V		V		V	V	V	V		V	V	Basic	the computer	Fourth

Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation •

1. Course Name:							
Environmental problems							
2. Course Code:							
3. Semester / Year:							
Semester 1/2023-2024							
4. Description Preparation Date:							
8/9/2023							
5. Available Attendance Forms:							
Lectures							
6. Number of Credit Hours (Total) / Number of Units (Total)							
45 hours/45 credits							
7. Course administrator's name (mention all, if more than one name)							
Name: May God protect you, Jabbar Matar							
Email: : edw.amana_jabbar@uoanbar.edu.iq							
8. Course Objectives							
<ul> <li>Course Objectives</li> <li>Conceptual framework of the environment and environmental problems: the concept of the environment, types of environment.</li> <li>The concept of the ecosystem, the concept of the environmental problem, and the classification of environmental problems.</li> <li>Pollution, its stages of development and ways to combat it.</li> </ul>							
9. Teaching and Learning Strategies							
Learning and teaching strategies and methods dependent in implementation of the program in general.							
10. Course Structure							

Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
		Understanding and	Conceptual framework of the environment and	Lecture and discussion	Daily and monthly
	_	perception	environmental problems:	discussion	exams
the first	3		the concept of the		
			environment, types of		
			environment.		
	3	Understanding and	The concept of the	Lecture and	Daily and monthly
T1 1		perception	ecosystem, the concept of	discussion	exams
The second			the environmental problem, classification of		
			environmental problems.		
	3	Understanding and	Pollution, its stages of	Lecture and	Daily and monthly
the third	3	perception	development and ways to	discussion	exams
			combat it.		
the fourth	3	Understanding and	Types of pollutants:	Lecture and	Daily and monthly
	2	perception Understanding and	1- Air pollution, its main	discussion Lecture and	exams Daily and monthly
Fifth	3	perception	sources, types of air	discussion	exams
1 11011		perception	pollutants.	0.100.0001011	Chams
	3	Understanding and	2- Water pollution,	Lecture and	Daily and monthly
		perception	oxygen levels, water	discussion	exams
The sixth			specifications, water		
			pollutants and their sources in our region.		
	3	Understanding and	3- Soil pollution: causes	Lecture and	Daily and monthly
	3	perception	of soil pollution, solid	discussion	exams
The seventh			waste and its types,		
The seventh			damage to the		
			environment caused by		
	2	Understanding and	solid waste. 4- Radioactive	Lecture and	Daily and monthly
	3	perception	contamination: sources of	discussion	exams
		perception	radioactive	anseassion .	CAMINS
The eighth			contamination,		
			environmental disasters		
			from radioactive		
	2	Understanding and	contamination 5- Chemical pollution:	Lecture and	Daily and monthly
The ninth	3	perception	Types of chemical	discussion	exams
		F	pollution		
	3	Understanding and	7- Electromagnetic	Lecture and	Daily and monthly
The tenth		perception	pollution: The dangers of	discussion	exams
			electromagnetic pollution to human health.		
	3	Understanding and	8- Sewage pollution.	Lecture and	Daily and monthly
eleventh	3	perception	o bewage polition.	discussion	exams
	3	Understanding and	Pollution control: 1-	Lecture and	Daily and monthly
	J	perception	Government activity. 2-	discussion	exams
TD 161			Scientific efforts. 3-		
Twelfth			Institutions and factories.		
			4- Environmental organizations. 5-		
			Individual efforts.		
	3	Understanding and	Global warming: the	Lecture and	Daily and monthly
Thirteenth	J	perception	concept of global	discussion	exams
1 IIII (CEIIIII			warming, sources of		
			greenhouse gas		

			emissions, greenhouse		
			gases and their effects.		
	3	Understanding and	The ozone layer: the	Lecture and	Daily and monthly
		perception	formation of ozone gas,	discussion	exams
			the problem of ozone		
fourteenth			layer depletion, the ozone		
			hole, the environmental		
			effects of ozone layer		
	2	Undonstanding and	depletion.  Desertification: cases of	Lecture and	Daily and monthly
	3	Understanding and perception	desertification and their	discussion	Daily and monthly exams
		perception	degree of severity, causes	discussion	CAdills
Fifteenth			of desertification,		
			methods of combating		
			desertification.		
11.Cour	se Evaluati	ion			
Distributin	ng the score	out if 100 accord	ing to the tasks assig	ned to the stu	ident such as daily
preparatio	n, daily oral	, monthly, or writt	en exams, reports,et	С.	-
12.Learn	ning and To	eaching Resource	es		
Required te	extbooks ( cu	rricular books, if an	y)		
Main refere	ences (source	e)			
	<u> </u>	·			
Recommen	ded books	and references (sc	ientific		
journals, re	ports)				

Electronic references, websites.



13.Course Name									
GIS									
14.Course Code	:								
15.Semester / Y	'ear:								
Semester 1/2023-	2024								
16.Description	Preparation Date:								
15/9/2023									
17.Available Attendance Forms:									
Lectures									
18. Number of C	redit Hours (Total) / Number of Units (Total)								
45 hours/45									
,									
19. Course	e administrator's name (mention all, if more than one name)								
	d Ibrahim Hussein								
Email: kahusse	een@uoanbar.edu.iq								
20.Course Object	tives								
Course Objectives	• The concept of Geographic Information Systems (G.I.S).								
	Historical stages of development								
	• • The sixties and seventies								
21 Tagahing and	• • The eighties and nineties Learning Strategies								
Strategy Strategy	Learning Strategies								
	arning and teaching strategies and methods dependent in								
Lea	arning and teaching strategies and methods dependent in								
Lea	arning and teaching strategies and methods dependent in plementation of the program in general.								
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Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept of geographic information systems (G.I.S.).	Lecture and discussion	Daily and monthlexams
The second	3	Understanding and perception	Stages of historical development	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The sixties and seventies	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	The eighties and nineties	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Components of the Geographic Information Systems (G.I.S.) project	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Input and output units	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Processing units	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Data sources	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Remote Sensing	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Administrative, topographic, and cadastral maps	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Statistics and field survey	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Criteria for evaluating sources in geographic information systems (G.I.S.).	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Accuracy, reliability, adequacy of contents	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Reliability, readability	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	G.I.S project requirements	Lecture and discussion	Daily and monthly exams
Distributing preparation	n, daily ora	out if 100 accord	ling to the tasks assigned en exams, reports,etc		dent such as daily

24.Learning and Teaching Resources								
Required textbooks ( curricular books, if any)								
Main references (source)								
Recommended books and references (scientific								
journals, reports)								
Electronic references, websites.								



25.Course Name:	
Social	
26.Course Code:	
27.Semester / Year:	
Semester 1/2023-2024	
28.Description Preparation Date:	
8/9/2023	
29. Available Attendance Forms:	
Lectures	
30. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
31. Course administrator's name (mention all, if more than one name)	
Name: Taha Ahmed Abd Abtan	
Email: : alani.kamal.5@uoanbar.edu.iq	
32.Course Objectives	
Course Objectives • The concept of social geography and its development	

- Its main sections
- The geography of races and their concept
- • The most important theories that explain the evolution of species

### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	First: the concept of energy	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Secondly, the importance of energy	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Evolution of energy use	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Types of energy	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Forms and sources of energy	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Traditional fossil energy sources	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Coal	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Petroleum ((oil definition))	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	The oil industry and its role in the Iraqi economy	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Iraqi oil reserves and the international market	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	The relationship of the oil industry with the state's general budgets	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Natural gas	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Nuclear energy: uranium	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	The relationship of energy to sustainable development	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Energy and dimensions of sustainable developm	Lecture and discussion	Daily and monthly exams

35.Course Evaluation	
Distributing the score out if 100 according to t	the tasks assigned to the student such as daily
preparation, daily oral, monthly, or written exan	ns, reports,etc.
36.Learning and Teaching Resources	
Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	



37.Course Name:					
Quantitative method					
	us				
38.Course Code:					
20.0					
39.Semester / Ye					
Semester 1/2023-2	024				
40.Description P	reparation Date:				
11/9/2023					
41.Available Atte	ndance Forms:				
Lectures					
42.Number of Cre	edit Hours (Total) / Number of Units (Total)				
45 hours/45 d	credits				
,					
43. Course	administrator's name (mention all, if more than one name)				
Name: Ziad Fr	eih Matar				
Email: salah.aaa	a@uoanber.edu.iq				
44.Course Objecti					
Course Objectives					
	objectives, and development				
	• The beginning and development of the use of				
	quantitative methods				
	• When did quantitative methods appear and what is the oldest study in which they were used?				
	ordest study in which they were used:				

### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

Week	Hours	Required	Unit or subject	Learning	Evaluation
WEEK	110018		· ·	_	
		Learning	name	method	method
		Outcomes			
		Understanding and	The concept of	Lecture and	Daily and monthly
the first	3	perception	quantitative methods (its	discussion	exams
	5		importance - reasons -		
		** 1 1 1	studying it).		D. 11
T1	3	Understanding and	The relationship between	Lecture and	Daily and monthly
The second		perception	quantitative methods and	discussion	exams
	2	Understanding and	statistics Types of quantitative	Lecture and	Daily and monthly
the third	3	perception	methods	discussion	exams
	3	Understanding and	Objectives of quantitative	Lecture and	Daily and monthly
the fourth	3	perception	methods	discussion	exams
	3	Understanding and	Quantitative methods and	Lecture and	Daily and monthly
Fifth	3	perception	the study of spatial	discussion	exams
			relationships		
	3	Understanding and	Recent trends in applying	Lecture and	Daily and monthly
The sixth		perception	quantitative methods in	discussion	exams
			geography		
The seventh	3	Understanding and	Geographic data (its	Lecture and	Daily and monthly
		perception	nature, types, sources)	discussion	exams
The eighth	3	Understanding and	Types and types of	Lecture and	Daily and monthly
		perception	geographical data	discussion	exams
The ninth	3	Understanding and	Design the questionnaire	Lecture and	Daily and monthly
1110 11111111	_	perception	form	discussion	exams
The tenth	3	Understanding and	Samples	Lecture and	Daily and monthly
	•	perception	Classification 1	discussion	exams
eleventh	3	Understanding and	Classification and	Lecture and	Daily and monthly
	2	perception Understanding and	tabulation of data	discussion	exams
Twelfth	3	Understanding and	Frequency distribution	Lecture and discussion	Daily and monthly
		perception		discussion	exams

Thirteenth	3	Understanding and	Statistical tables	Lecture and	Daily and monthly
Timtechui	ì	perception		discussion	exams
fourteenth	3	Understanding and	Paired frequency tables	Lecture and	Daily and monthly
Tourteentii	ì	perception		discussion	exams
Fifteenth	3	Understanding and	Graphical display of data	Lecture and	Daily and monthly
Titteentii	ð	perception		discussion	exams
47.Course Evaluation					
Distributing the score out if 100 according to the tasks assigned to the student such as daily					

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

48.Learning and Teaching Resources				
Required textbooks ( curricular books, if any)				
Main references (source)				
Recommended books and references (scientific				
journals, reports)				
Electronic references, websites.				



49.Course Name:
Australia
50.Course Code:
51.Semester / Year:
Semester 1/2023-2024
52.Description Preparation Date:
8/9/2023
53. Available Attendance Forms:
Lectures
54. Number of Credit Hours (Total) / Number of Units (Total)
45 hours/45 credits
55. Course administrator's name (mention all, if more than one name)
Name: Taha Ahmed Abd Abtan
Email: : alani.kamal.5@uoanbar.edu.iq
56.Course Objectives
50. Course Objectives

Course Objectives	<ul> <li>The continent of Australia - location and area - discovering the continent</li> <li>Natural conditions - geological structure</li> <li>The climate in the continent of Australia</li> <li>Climatic regions</li> </ul>
<i>FP</i> / 1 · 1 · 1 · 1 · 1 · 1 · 1	

### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			222002
4 6	2	Understanding and	First: the concept of	Lecture and	Daily and monthly
the first	3	perception	energy	discussion	exams
The second	3	Understanding and	Secondly, the importance	Lecture and	Daily and monthly
The second	2	perception	of energy	discussion	exams
the third	3	Understanding and	Evolution of energy use	Lecture and	Daily and monthly
the time		perception		discussion	exams
the fourth	3	Understanding and	Types of energy	Lecture and	Daily and monthly
the rourth		perception		discussion	exams
Fifth	3	Understanding and	Forms and sources of	Lecture and	Daily and monthly
1 11(11		perception	energy	discussion	exams
The sixth	3	Understanding and	Traditional fossil energy	Lecture and	Daily and monthly
THE SIACH		perception	sources	discussion	exams
The seventh	3	Understanding and	Coal	Lecture and	Daily and monthly
THE SEVEREN		perception		discussion	exams
The eighth	3	Understanding and	Petroleum ((oil	Lecture and	Daily and monthly
The eighti		perception	definition))	discussion	exams
The ninth	3	Understanding and	The oil industry and its	Lecture and	Daily and monthly
1110 1111111		perception	role in the Iraqi economy	discussion	exams
The tenth	3	Understanding and	Iraqi oil reserves and the	Lecture and	Daily and monthly
		perception	international market	discussion	exams
	3	Understanding and	The relationship of the	Lecture and	Daily and monthly
eleventh		perception	oil industry with the	discussion	exams
			state's general budgets		
Twelfth	3	Understanding and	Natural gas	Lecture and	Daily and monthly
		perception		discussion	exams
Thirteenth	3	Understanding and	Nuclear energy: uranium	Lecture and	Daily and monthly
		perception		discussion	exams
	3	Understanding and	The relationship of	Lecture and	Daily and monthly
fourteenth		perception	energy to sustainable	discussion	exams
			development		

Fifteenth	3	Understanding and	Energy and dimensions	Lecture and	Daily and monthly
		perception	of sustainable developm	discussion	exams
59.Cours	se Evaluati	ion			
	_		ing to the tasks assigr		dent such as daily
preparation	n, daily oral	l, monthly, or writte	en exams, reports,etc	•	
60.Learn	ning and T	eaching Resource	es		
Required te	xtbooks ( cu	ırricular books, if an	y)		
Main refere	nces (source	e)			
Recommended books and references (scientific					
journals, rep	ports)				
Electronic r	eferences, w	vebsites.			



61.Course Name:
Asia
62.Course Code:
63.Semester / Year:
Semester 1/2023-2024
64.Description Preparation Date:
13/9/2023
65. Available Attendance Forms:
Lectures
66.Number of Credit Hours (Total) / Number of Units (Total)
45 hours/45 credits
67. Course administrator's name (mention all, if more than one name)
Name: Kamal Saleh Kazkouz Majbas
Email: <u>alani.kamal.5@uoanbar.edu.iq</u>
68.Course Objectives

# Course Objectives • 1- Introducing students to the definition of the geography of Asia • 2- Explaining the sections of Asia • 3 – The most important sections of the surface of Asia • 4- The most important countries in the continent of Asia

### 69. Teaching and Learning Strategies

### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
the first	3	Understanding and perception	First: the concept of energy	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Secondly, the importance of energy	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Evolution of energy use	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Types of energy	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Forms and sources of energy	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Traditional fossil energy sources	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Coal	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Petroleum ((oil definition))	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	The oil industry and its role in the Iraqi economy	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Iraqi oil reserves and the international market	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	The relationship of the oil industry with the state's general budgets	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Natural gas	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Nuclear energy: uranium	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	The relationship of energy to sustainable development	Lecture and discussion	Daily and monthly exams

Fifteenth	3	Understanding and	Energy and dimensions	Lecture and	Daily and monthly
Titteentii		perception	of sustainable developm	discussion	exams
71.Cours	se Evaluati	ion			
Distributin	g the score	out if 100 accord	ing to the tasks assigr	ned to the stud	dent such as daily
preparatio	n, daily oral	l, monthly, or writte	en exams, reports,etc		
72.Learn	ning and T	eaching Resource	es		
Required te	xtbooks ( cu	ırricular books, if an	y)		
Main refere	nces (source	e)			
Recommended books and references (scientific					
journals, rep	ports)				
Electronic references, websites.					

73.Course Name:							
Dry regions							
74.Course Code:							
75.Semester / Ye	ar:						
Semester 1/2023-2	024						
76.Description Pr	eparation Date:						
12/9/2023							
77. Available Atter	ndance Forms:						
Lectures							
78.Number of Cre	dit Hours (Total) / Number of Units (Total)						
45 hours/45 c	redits						
79. Course administrator's name (mention all, if more than one name)							
Name: Student Ahmed Abdel Razzaq Ashour							
Email: taleb.ahmed@uoanbar.edu.iq							
80.Course Objectives							
Course Objectives	• 1- Introducing students to dry regions						
	• 2- Explaining the importance of dry regions						
	• • 3 – Definition of the area of dry regions						
	• 4- Explaining the imbalance and imbalance in the areas of dry regions.						
	of dry regions						

### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
the first	3	Understanding and perception	First: the concept of dry regions	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Secondly, the importance of dry regions	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Areas of dry regions	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Defining drought for the scientist Köppen	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Forms of dehydration	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Sources of drought	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Effects of drought	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Water resources	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Drought risks	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Climate and dry regions	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	The scientific importance of dry regions	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	The military importance of dry regions	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Military advantages of dry regions	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	The economic importance of the dry region	Lecture and discussion	Daily and monthly exams

Fifteenth	3	Understanding and	The political importance	Lecture and	Daily and monthly
Titteentii	_	perception	of the dry region	discussion	exams
83.Cours	se Evaluati	ion			
Distributin	g the score	out if 100 accord	ing to the tasks assign	ned to the stud	dent such as daily
preparation	n, daily oral	l, monthly, or writte	en exams, reports,etc		
84.Learn	ning and T	eaching Resource	es		
Required te	xtbooks ( cu	ırricular books, if an	y)		
Main refere	ences (source	e)			
Recommended books and references (scientific					
journals, rep	ports)				
Electronic r	eferences, w	vebsites.			



85.Course Name:	85.Course Name:						
Soil geography							
86.Course Code:	86.Course Code:						
87.Semester / Ye	ear:						
Semester 1/2023-2	024						
88.Description Pr	reparation Date:						
13/9/2023							
89. Available Atte	ndance Forms:						
Lectures							
90.Number of Cre	edit Hours (Total) / Number of Units (Total)						
45 hours/45 d	45 hours/45 credits						
91. Course	91. Course administrator's name (mention all, if more than one name)						
Name: Qasim	Ahmed Raml						
Email:: <u>kasemraml@uoanbar.edu.iq</u>							
92.Course Objectives							
Course Objectives	Introducing soil geography, the concept of soil						
	geography - its development - its fields - and its relationship with other sciences						
	Soil components (mineral materials - organic materials -						
	water - air).						

### Factors affecting soil formation (organic materials climate)

## 93. Teaching and Learning Strategies

### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept of soil geography - its development - its fields - and its relationship with other sciences	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Soil components (mineral materials - organic materials - water - air).	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Factors affecting soil formation (organic materials - climate)	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Factors affecting soil formation (topography - people - time)	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Soil formation processes (loss - addition - transformation - transport)	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Physical properties of the soil (soil texture - soil structure - soil thickness - soil color)	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Chemical properties (mineral elements - acidity and basicity - salinity)	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Soil section and horizons	Lecture and discussion	Daily and monthly exams

	2	Understanding and	Soil life characteristics	Lecture and	Daily and monthly
The minute	3	_			
The ninth		perception	and factors affecting its	discussion	exams
	2	Understanding and	growth Foundations of soil	Lecture and	Dailer and monthly
The tenth	3	Understanding and		discussion	Daily and monthly
The tenth		perception	survey and classification	uiscussioii	exams
	2	Undowstanding and	and its objectives	Lecture and	Dailer and monthly
eleventh	3	Understanding and	Geographical distribution of zonal soils	discussion	Daily and monthly
	2	perception Understanding and		Lecture and	exams  Daily and monthly
Twelfth	3	Understanding and	Geographical distribution of non-zonal soils and		Daily and monthly
i wentii		perception	***************************************	discussion	exams
		II. 1 ( 1' 1	overlapping soils	T	D.'11411
TP1. 1	3	Understanding and	Soil problems (salinity -	Lecture and	Daily and monthly
Thirteenth		perception	erosion - pollution - low	discussion	exams
		II. 1	productivity)	T	D.114.1
fourteenth	3	Understanding and	Soil maintenance	Lecture and	Daily and monthly
		perception	methods	discussion	exams
Fifteenth	3	Understanding and	Soils in Iraq (problems -	Lecture and	Daily and monthly
		perception	methods of maintenance)	discussion	exams
95.Cour	se Evaluati	ion			
Distributin	g the score	out if 100 accord	ing to the tasks assign	ned to the stu	dent such as dailv
	_		en exams, reports,etc		
				·•	
96.Leari	ning and I	eaching Resource	es		
Required te	extbooks ( cu	irricular books, if an	y)		

Main references (source)

journals, reports...)
Electronic references, websites.

Recommended books and references (scientific

Geomatics  98. Course Code:  99. Semester / Year:  Semester 1/ 2023-2024  100. Description Preparation Date:  8/9/2023  101. Available Attendance Forms:  Lectures  102. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  • • The concept of geomatics • • Research methods in geomatics	97.Course Name:						
99.Semester / Year:  Semester 1/ 2023-2024  100. Description Preparation Date:  8/9/2023  101. Available Attendance Forms:  Lectures  102. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics	Geomatics	Geomatics					
Semester 1/ 2023-2024  100. Description Preparation Date:  8/9/2023  101. Available Attendance Forms:  Lectures  102. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  • • The concept of geomatics  • • Research methods in geomatics	98.Course Code:						
Semester 1/ 2023-2024  100. Description Preparation Date:  8/9/2023  101. Available Attendance Forms:  Lectures  102. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  • • The concept of geomatics  • • Research methods in geomatics							
100. Description Preparation Date:  8/9/2023  101. Available Attendance Forms:  Lectures  102. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • The concept of geomatics • Research methods in geomatics	99.Semester / Ye	ear:					
8/9/2023  101. Available Attendance Forms:  Lectures  102. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.ig  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics	Semester 1/2023-2	2024					
101. Available Attendance Forms:  Lectures  102. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics	100. Descrip	tion Preparation Date:					
Lectures  102. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics	8/9/2023						
102. Number of Credit Hours (Total) / Number of Units (Total) 45 hours/45 credits  103. Course administrator's name (mention all, if more than one name) Name: Khaled Ibrahim Hussein Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics	101. Availab	le Attendance Forms:					
45 hours/45 credits  103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics	Lectures						
103. Course administrator's name (mention all, if more than one name)  Name: Khaled Ibrahim Hussein  Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Ourse Objectives  • The concept of geomatics • Research methods in geomatics	102. Number	of Credit Hours (Total) / Number of Units (Total)					
Name: Khaled Ibrahim Hussein Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics	45 hours/45 d	credits					
Name: Khaled Ibrahim Hussein Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics							
Email: kahusseen@uoanbar.edu.iq  104. Course Objectives  Course Objectives  • • The concept of geomatics • • Research methods in geomatics	103. Course	administrator's name (mention all, if more than one name)					
104. Course Objectives  Course Objectives  • The concept of geomatics • Research methods in geomatics	Name: Khaled	l Ibrahim Hussein					
Course Objectives	Email: kahusseen@uoanbar.edu.iq						
Research methods in geomatics	104. Course Objectives						
• The relationship of geomatics to other sciences							

### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Geomatics concept	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Cartography	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Earth shape: ilipsoid and geoid:	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Map projections and coordinate systems	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Aerial photos	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Digital photogrammetry	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Remote Sensing	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Satellite visual specifications	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Floor space	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Global positioning systems	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Geographic information systems	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Data models and structures within	Lecture and discussion	Daily and monthly exams

			geographic information			
			systems			
Thirteenth	3	Understanding and	Statistics and data	Lecture and	Daily and monthly	
Timteentii		perception	analysis	discussion	exams	
fourteenth	3	Understanding and	Spatial analysis of data	Lecture and	Daily and monthly	
Tourteentii	3	perception		discussion	exams	
Fifteenth	3	Understanding and	New Geomatics	Lecture and	Daily and monthly	
Filteenth		perception		discussion	exams	
107. Course Evaluation						
Distributing the score out if 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,etc.						

preparation, daily oral, monthly, or written exams, reports,...etc.

108. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (source)

Recommended books and references (scientific journals, reports...)

Electronic references, websites.

109.	Course Name:			
Calculators	3			
110.	Course Code:			
111.	Semester / Year:			
Semester 1	./ 2023-2024			
112.	Description Preparation Date:			
12/9/2023				
113.	Available Attendance Forms:			
Lecti	ures			
114.	Number of Credit Hours (Total) / Number of Units (Total)			
45 h	ours/45 credits			
115.	Course administrator's name (mention all, if more than one name)			
Name: Thaer Khairallah Osman				
Email: thaar.asman@uoanbar.edu.iq				
116.	Course Objectives			
Course Objec	tives • • Definition of operating system			

- Operating system functions
- Objectives of the operating system
- • Operating system classification

### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

	sc Structur	- I	TT 14	т .	E 1 4
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Definition of operating system	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Operating system functions	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Operating system goals	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Operating system classification	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Examples of some operating systems	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Windows 7 operating system	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Windows 7 installation requirements	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	New features in Windows 7	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Desktop components	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Start menu taskbar notification area	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Folders and files	Lecture and discussion	Daily and monthly exams

Thirteenth	3	Understanding and perception		Icons	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Perform	ning operations on windows	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	des	sktop backgrounds	Lecture and discussion	Daily and monthly exams
119. Cou	ırse Evalu	ation				
Distributing the score out if 100 according to the preparation, daily oral, monthly, or written exam 120. Learning and Teaching Resources						dent such as daily
Required textbooks ( curricular books, if any)			y)			
Main references (source)						
Recommended books and references (scientific journals, reports)						
Electronic references, websites.						

121. Course	Course Name:			
Life geography				
122. Course	Code:			
123. Semest	ter / Year:			
Semester 1/2023-	2024			
124. Descrip	otion Preparation Date:			
11/9/2023				
125. Availab	Available Attendance Forms:			
Lectures				
126. Number	Number of Credit Hours (Total) / Number of Units (Total)			
45 hours/45	credits			
127. Course	127. Course administrator's name (mention all, if more than one name)			
Name: Muhammad Musa Hammadi				
Email: mohammad.mussa@uoanbar.edu.iq				
128. Course	Objectives			
Course Objectives	Definition of life geography, its development, methods,			
	fields, and relationship to other sciences.			

- Plant life: basics of classification of plant organisms.
- Factors that control the distribution of vegetation cover:
   Natural factors: A: The geological factor and its effect on the distribution of plants.
- Definition of life geography, its development, methods, fields, and relationship to other sciences.

#### 129. Teaching and Learning Strategies

#### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

#### 130. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Definition of life geography, its development, methods, fields, and relationship to other sciences.	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Plant Life: Foundations of Classification of Plant Organisms.	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Factors that control the distribution of vegetation cover: 1- Natural factors:  A: The geological factor and its effect on the distribution of plants.	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	B- Climate (heat, rain, wind, light)	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	C- Soil C- Effect of height and slope factors.	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	2-Human factors (humans and their impact on the distribution of plants).	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Distribution of natural plants: Methods of dispersal of plants	Lecture and discussion	Daily and monthly exams

		Т		I	
			(means of dispersal): 1-		
			Distribution by wind 2-		
			By water and ice 3- By		
			animals 4- By humans 5-		
			Mechanical propagation.		
	3	Understanding and	Types of plant groups: 1-	Lecture and	Daily and monthly
The eighth		perception	Forests: A- Tropical	discussion	exams
The eight			forests (tropical rain,		
			tropical dry, and spiny).		
	3	Understanding and	B- Central latitude forests	Lecture and	Daily and monthly
		perception	1- Temperate	discussion	exams
The ninth			greenhouse: A-		
THE IIIIIII			Mediterranean forests, B-		
			Broad-leaved forests in		
			the eastern continents.		
	3	Understanding and	2-Cold temperate: A-	Lecture and	Daily and monthly
The tenth	5	perception	deciduous hardwoods, B-	discussion	exams
The tenth			coniferous C- mixed		
			broad-leaved forests.		
	3	Understanding and	2- Weeds and their types:	Lecture and	Daily and monthly
.1	3	perception	A- Tropical grasses, B-	discussion	exams
eleventh			Central latitude grasses		
			(prairie, steppes).		
	3	Understanding and	3- Desert plants: A-	Lecture and	Daily and monthly
	3	perception	Evergreen and leafless	discussion	exams
			cactus B- Evergreen and		
TD 101			hard-leaved trees and		
Twelfth			shrubs C- Deciduous		
			trees and shrubs D-		
			Ephemeral plants E- Salt-		
			resistant plants.		
	3	Understanding and	Animal life (animal	Lecture and	Daily and monthly
	3	perception	relationships,	discussion	exams
Thirteenth		rP	environment and animals,		
Timrecitii			the difference between		
			animals and plants).		
	3	Understanding and	Foundations of animal	Lecture and	Daily and monthly
fourteenth	3	perception	classification.	discussion	exams
	2	Understanding and	Patterns of animal	Lecture and	Daily and monthly
Fifteenth	3	perception		discussion	exams
101 6	rse Evalu		groups.	discussion	CAMIIIS

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

132. Learning and Teaching Resources				
Required textbooks ( curricular books, if any)				
Main references (source)				
Recommended books and references (scientific				
journals, reports)				
Electronic references, websites.				

133.	Course Name:				
Thematic r	Thematic maps				
134.	Course Code:				
135.	Semester / Year:				
Semester 1	1/2023-2024				
136.	Description Preparation Date:				
14/9/2023					
137.	Available Attendance Forms:				
Lecti	ures				
138.	Number of Credit Hours (Total) / Number of Units (Total)				
45 h	ours/45 credits				
139.	Course administrator's name (mention all, if more than one name)				
Nam	Name: Ahmed Salman Hammadi				
Emai	Email: ahmed.salman@uoanbar.edu.iq				
140. Course Objectives					
Course Objec					
	• • The concept of thematic map and maps				
	<ul><li> • Map design</li><li> • Visual variables and cartographic communication</li></ul>				
	- visuai variabies and cartographic communication				

### 141. Teaching and Learning Strategies

#### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

### 142.Course Structure

Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
the first	2	Understanding and	The concept of		Daily and monthly
the first	3	perception	cartography	discussion	exams
The second	3	Understanding and	The concept of the map	Lecture and	Daily and monthly
The second		perception	and thematic maps	discussion	exams
the third	3	Understanding and	Map design	Lecture and	Daily and monthly
the third		perception		discussion	exams
	3	Understanding and	Visual variables and	Lecture and	Daily and monthly
the fourth		perception	cartographic	discussion	exams
			communication		
Fifth	3	Understanding and	Cartographic	Lecture and	Daily and monthly
1 11(11		perception	generalization	discussion	exams
The sixth	3	Understanding and	Standards and concept of	Lecture and	Daily and monthly
THE SIXIII		perception	symbols	discussion	exams
The seventh	3	Understanding and	Qualitative distribution	Lecture and	Daily and monthly
The seventh		perception	maps	discussion	exams
The eighth	3	Understanding and	Quantitative distribution	Lecture and	Daily and monthly
The eighth		perception	maps	discussion	exams
	3	Understanding and	1- Representation with	Lecture and	Daily and monthly
The ninth		perception	quantitative position	discussion	exams
			symbols		
	3	Understanding and	A- Representation with	Lecture and	Daily and monthly
The tenth	-	perception	one-dimensional position	discussion	exams
			symbols		
eleventh	3	Understanding and	B- Representation with	Lecture and	Daily and monthly
CIC VCIIIII		perception	two-dimensional position	discussion	exams

			symbols		
Twelfth	3	Understanding and perception	C- Representation with three-dimensional position symbols	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	2- Representation with quantitative line symbols	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	3- Representation with quantitative space symbols	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Applications 1 - 2	Lecture and discussion	Daily and monthly exams

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

# 144. Learning and Teaching Resources Required textbooks (curricular books, if any)

Main references (source)

Recommended books and references (scientific journals, reports...)

Electronic references, websites.

145. Cour	Course Name:				
Maps					
146. Cour	rse Code:				
147. Sem	ester / Year:				
Semester 1/202	23-2024				
148. Desc	cription Preparation Date:				
14/9/2023					
149. Avai	ilable Attendance Forms:				
Lectures					
150. Num	Number of Credit Hours (Total) / Number of Units (Total)				
45 hours/	45 credits				
151. Cou	rse administrator's name (mention all, if more than one name)				
Name: Ahr	ned Salman Hammadi				
Email: ahmed.salman@uoanbar.edu.iq					
Name: Walid Hanoush Hamad					
Email: <u>Waled.hanoosh@uoanbar.edu.iq</u>					
152. Cour	rse Objectives				
<b>Course Objectives</b>	<ul> <li>The concept of cartography and the role of the</li> </ul>				

Babylonians and ancient Egyptians in the development of cartography

- The role of the ancient Chinese, Greek, Roman and Middle Ages civilizations in the development of cartography
- Zoom in and zoom out maps
- Coordinates and beams

### 153. Teaching and Learning Strategies

#### **Strategy**

Learning and teaching strategies and methods dependent in implementation of the program in general.

#### 154. Course Structure

Week	Hours	Required	Unit or subject	Learning method	Evaluation
		Learning Outcomes	name	memou	method
the first	3	Understanding and perception	The concept of cartography and the role of the Babylonians and ancient Egyptians in the development of cartography	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	The role of the ancient Chinese, Greek, Roman and Middle Ages civilizations in the development of cartography	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The role of Arab Muslims and schools in the Renaissance era and modern cartography in the development of cartography	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Drawing scales and their types	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Linear scales and their types	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Simple linear scale	Lecture and discussion	Daily and monthly exams

The seventh	3	Understanding and	Comparative scale and	Lecture and	Daily and monthly
The seventh		perception	time scale	discussion	exams
The eighth	3	Understanding and	Distance calculation and	Lecture and	Daily and monthly
The eighth		perception	area calculation	discussion	exams
The ninth	3	Understanding and	Zoom in and zoom out	Lecture and	Daily and monthly
THE IIIIIII		perception	maps	discussion	exams
The tenth	3	Understanding and	Coordinates and beams	Lecture and	Daily and monthly
The tenth		perception		discussion	exams
eleventh	3	Understanding and	Nordic types	Lecture and	Daily and monthly
elevelitii		perception		discussion	exams
Twelfth	3	Understanding and	Methods for determining	Lecture and	Daily and monthly
1 Welltii		perception	true north	discussion	exams
Thirteenth	3	Understanding and	Longitude and latitude	Lecture and	Daily and monthly
Timteenui		perception	lines	discussion	exams
fourteenth	3	Understanding and	Map locations and	Lecture and	Daily and monthly
Tourteentii		perception	location characteristics	discussion	exams
Fifteenth	3	Understanding and	Principles for choosing	Lecture and	Daily and monthly
THECHUI		perception	the appropriate location	discussion	exams

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

	, 1
156. Learning and Teaching Resources	
Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	





Course Name:	
Course Code:	
Semester / Year:	
2023-2024	
Description Preparation Date:	
Available Attendance Forms:	
urs/45 credits	
Course administrator's name (mention all, if more than one n	ama)
	ame)
1 8 1	
The relationship of political geography with other gridness.	
Teaching and Learning Strategies	
Learning and teaching strategies and methods depend	ent in
imprementation of the program in general.	
	Course Code:  Semester / Year: // 2023-2024 Description Preparation Date:  Available Attendance Forms:  Ires Number of Credit Hours (Total) / Number of Units (Total)  Ours/45 credits  Course administrator's name (mention all, if more than one nete: Ahmed Dawoud Hamid  il: Ahmed.daood@ouanbar.edu.iq  Course Objectives  • The concept of geopolitics • Research methods in political geography • The relationship of political geography with other sciences  Teaching and Learning Strategies  Learning and teaching strategies and methods depend implementation of the program in general.

166	Course	Structure
Inn	COHECE	Siriicilire

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	регеорион	The concept of geopolitics	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Research methods in political geography	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The relationship of political geography with other sciences	Lecture and discussion	Daily and monthly exams
the fourth	3	perception	The natural components of the state and their impact on its political weight - geographical location - human components	Lecture and discussion	Daily and monthly exams
Fifth	3	perception	Size of the country	Lecture and discussion	Daily and monthly exams
The sixth	3	perception	State form	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Climatic conditions	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Water Resources	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Mineral ores	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Natural plant	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Demographic factors	Lecture and discussion	Daily and monthly exams
Twelfth	3		Population density	Lecture and discussion	Daily and monthly exams
Thirteenth	3	* *	Population composition	Lecture and discussion	Daily and monthly exams
fourteenth	3		Economic components	Lecture and discussion	Daily and monthly exams
Fifteenth	3		Agriculture and industry	Lecture and discussion	Daily and monthly exams

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

#### 168. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

169.	Course Name:
Local climate	e
170.	Course Code:
171.	Semester / Year:
Semester 1/	2023-2024
172.	Description Preparation Date:
8/9/2023	
173.	Available Attendance Forms:
Lectur	res
174.	Number of Credit Hours (Total) / Number of Units (Total)
45 hou	urs/45 credits
	Course administrator's name (mention all, if more than one name)
	: Hamid Rajab Abdul Hakim
Email:	edw.h ameed1@uoanbar.edu.iq
	Course Objectives
Course Objectiv	, ·
	<ul><li> • Areas of study</li><li> • Monitoring methods and features</li></ul>
	• Local climate elements
177.	Teaching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

178.Cours Week	se Structur Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	2	Understanding and	Local climate definition	Lecture and	Daily and monthl
the first	3	perception	and development	discussion	exams
The second	3	Understanding and	His areas of study	Lecture and	Daily and monthly
		perception Understanding and	Monitoring methods and	discussion Lecture and	exams
the third	3	perception	their advantages	discussion	Daily and monthly exams
the fourth	3	Understanding and	Local climate elements	Lecture and	Daily and monthly
the fourth		perception		discussion	exams
Fifth	3	Understanding and	Solar radiation and	Lecture and	,
	2	perception Understanding and	radiation balance Thermometer of the	discussion Lecture and	
The sixth	3	perception	Earth's surface	discussion	•
The correnth	3	Understanding and	Factors affecting the	Lecture and	Daily and monthly
The seventh		perception local climate		discussion	Daily and monthly exams
The eighth	3	Understanding and	Characteristics and	Lecture and	•
	2	perception	temperature regime of air	discussion Lecture and	
The ninth	3	Understanding and perception	Annual temperature distribution	discussion	
TD1	3	Understanding and	Local pressure and wind	Lecture and	
The tenth	7	perception	systems	discussion	exams
eleventh	3	Understanding and	Local climate patterns	Lecture and	Daily and monthly
		perception	C' 1'	discussion	exams
Twelfth	3	Understanding and perception	City climate	Lecture and discussion	Daily and monthly exams
TDI 1	3	Understanding and	Mountain climate	Lecture and	Daily and monthly
Thirteenth	3	perception		discussion	exams
fourteenth	3	Understanding and	Jungle climate	Lecture and	Daily and monthly
10ui teelitti		perception	CIL	discussion	exams
Fifteenth	3	Understanding and	Climate of agricultural	Lecture and discussion	Daily and monthly
170 Car	irao Essalsa	perception	fields	uiscussioii	exams
	ırse Evalu		ing to the teel	and the the	done and a 1-1
	_		ing to the tasks assign		duent such as daily
			en exams, reports,etc		
		Teaching Resour			
Required textbooks ( curricular books, if any)					
Main references (source)					

journals, reports)	
Electronic references, websites.	



181. Course	e Name:		
Natural field study	7		
182. Course	e Code:		
183. Semes	ter / Year:		
Semester 1/2023-	-2024		
184. Descri	ption Preparation Date:		
17/9/2023			
185. Availal	ble Attendance Forms:		
Lectures			
186. Numbe	er of Credit Hours (Total) / Number of Units (Total)		
45 hours/45	credits		
187. Course	e administrator's name (mention all, if more than one name)		
Name: Qasim Ahmed Raml			
Email:: kasemraml@			
	nmmad Musa Hammadi		
Email: mohammad.m			
	ent Ahmed Abdel Razzaq Ashour		
Email: taleb.ahmed@	Duoanbar.edu.iq		
	d Rajab Abdul Hakim		
Email: <u>edw.h_ameed1@uoanbar.edu.iq</u>			
	e Objectives		
Course Objectives	<ul><li> • The concept of field study</li><li> • Field study methods</li></ul>		
	<ul> <li>Field study methods</li> <li>Field study requirements</li> </ul>		
189. Teachin	ing and Learning Strategies		
Strategy			

Learning and teaching strategies and methods dependent in implementation of the program in general.

190.	Course	Structure
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Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept of field study	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Field study requirements	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	the reasons	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	the problems	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams

fourteenth	3	Understanding and perception		Duties	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Duties		Lecture and discussion	Daily and monthly exams
191. Cou	ırse Evalua	ation				
	Distributing the score out if 100 according to preparation, daily oral, monthly, or written example.					dent such as daily
192. Learning and Teaching Resources						
Required textbooks ( curricular books, if any)			y)			
Main references (source)						
Recommended books and references (scientific journals, reports)						
Electronic references, websites.						





193.	Course Name:		
north americ	ca		
194.	Course Code:		
195.	Semester / Year:		
Semester 1/	er 1/ 2023-2024		
196.	Description Preparation Date:		
10/9/2023			
197.	Available Attendance Forms:		
Lectur	res		
198.	Number of Credit Hours (Total) / Number of Units (Total)		
45 hou	urs/45 credits		
199.	Course administrator's name (mention all, if more than one name)		
Name:	: Kamal Abdullah Hassan		
Email:	Khmal.abdullah@uoanbar.edu.iq		
200.	Course Objectives		
Course Objectiv	, and the state of		
	<ul><li>geographical extension</li><li>Geological situation of the continent</li></ul>		
	Characteristics of the topographic situation - the eastern		
	highlands - the western highlands - the central highlands		
	Climatic characteristics on the continent - temperature      Approximation and a similar characteristics.		
201.	characteristics - precipitation characteristics Teaching and Learning Strategies		
Strategy			
	Learning and teaching strategies and methods dependent in		
	implementation of the program in general.		
_			

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Location - area - borders - geographical extension	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Geological situation of the continent	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Climatic characteristics of the continent - temperature characteristics - precipitation characteristics	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Climatic regions on the continent	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Natural vegetation and geographical distribution of plant regions	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Soils on the continent and its geographical regions	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Water Resources	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Human and economic characteristics of the continent - the origin of the population on the continent - new immigrants	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Economic characteristics of the continent's population - agricultural activity - agricultural crops on the continent and their geographical distribution - livestock production	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	,	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and	Geographical distribution	Lecture and	Daily and monthly

		perception	of livestock on the	discussion	exams
			continent		
Thirteenth	3	Understanding and	Mineral wealth and	Lecture and	Daily and monthly
		perception	industrial activity	discussion	exams
fourteenth	3	Understanding and	Transport on the	Lecture and	Daily and monthly
Tourteentii	3	perception	continent	discussion	exams
Fifteenth	3	Understanding and	Regional study of some	Lecture and	Daily and monthly
		perception	countries of the continent	discussion	exams

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

204. Learning and Teaching Resources	•
Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	





205.	Course Name:
206.	Course Code:
207	
207.	Semester / Year:
	/ 2023-2024
208. 14/9/2023	Description Preparation Date:
209.	Available Attendance Forms:
Lecti	
210.	Number of Credit Hours (Total) / Number of Units (Total)
	ours/45 credits
	oursy to creates
211.	Course administrator's name (mention all, if more than one name)
Nam	e: Ahmed Hilal Hammoud
Emai	il: <u>ahmed.hellal@uoanbar.edu.iq</u>
212.	Course Objectives
Course Objec	/ <b>1</b>
	throughout history.  • Natural geographical characteristics of Iraq:
	Geological structure.
	• • Terrain features: (mountains, plateaus, plains).
213.	Teaching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

214. Cours	se Structur	e			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Location and area, the importance and status of Iraq throughout history.	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Natural geographical characteristics of Iraq:	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Geological structure.	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Terrain features: (mountain region)	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Simple and complex mountain area	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Mountainous plains and their characteristics	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	The alluvial plain, its extent, characteristics, characteristics, and theories of formation	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Secondary sections of the alluvial plain	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	The undulating area (Al- Rawabi area and its secondary sections	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	The Western Plateau region, its characteristics and secondary divisions	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Climate and its elements: (heat, wind, precipitation),	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Factors affecting climate, climatic regions.	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Soil in Iraq: its importance, elements of its formation, and forms.  Its causes, types, and maintenance methods.	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Soil problems in Iraq and treatment methods	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Natural plants, their sections and characteristics	Lecture and discussion	Daily and monthly exams

Distributing the score out if 100 according to the tasks assigned to the student such as daily				
preparation, daily oral, monthly, or written exam	ns, reports,etc.			
216. Learning and Teaching Resources				
Required textbooks ( curricular books, if any)				
Main references (source)				
Recommended books and references (scientific				
journals, reports)				
Electronic references, websites.				

217.	Course Name:
Geologist	
218.	Course Code:
219.	Semester / Year:
Semester 1	/ 2023-2024
220.	Description Preparation Date:
10/9/2023	
221.	Available Attendance Forms:
Lectu	
222.	Number of Credit Hours (Total) / Number of Units (Total)
45 ho	ours/45 credits
223.	Course administrator's name (mention all, if more than one name)
	e: Walid Hanoush Hamad
Email	: Waled.hanoosh@uoanbar.edu.iq
224.	Course Objectives
Course Object	<ul> <li>• Identify the concept of geology</li> <li>• The relationship of geology with other sciences</li> </ul>
	Astrogeology (atmosphere and hydrosphere)
225.	Teaching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

226. Course Structure						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
the first	3	Understanding and perception	Concept of geology	Lecture and discussion	Daily and monthly exams	
The second	3	Understanding and perception	The relationship of geology with other sciences	Lecture and discussion	Daily and monthly exams	
the third	3	Understanding and perception	Astrogeology (atmosphere and hydrosphere)	Lecture and discussion	Daily and monthly exams	
the fourth	3	Understanding and perception	Astrogeology (lithosphere and terrestrial gravity)	Lecture and discussion	Daily and monthly exams	
Fifth	3	Understanding and perception	Movement of the Earth and the Moon	Lecture and discussion	Daily and monthly exams	
The sixth	3	Understanding and perception	Minerals and their concept	Lecture and discussion	Daily and monthly exams	
The seventh	3	Understanding and perception	Physical properties of minerals	Lecture and discussion	Daily and monthly exams	
The eighth	3	Understanding and perception	Rocks and their formation	Lecture and discussion	Daily and monthly exams	
The ninth	3	Understanding and perception	Rock cycle in nature	Lecture and discussion	Daily and monthly exams	
The tenth	3	Understanding and perception	Igneous rocks and their importance	Lecture and discussion	Daily and monthly exams	
eleventh	3	Understanding and perception	Sedimentary rocks and their importance	Lecture and discussion	Daily and monthly exams	
Twelfth	3	Understanding and perception	Metamorphic rocks and their importance	Lecture and discussion	Daily and monthly exams	

3

Thirteenth

fourteenth

Fifteenth

Understanding and

Understanding and

Understanding and

perception

perception

perception

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

hydrosphere and

atmosphere

The concept of

environmental geology

Human impacts on the

Human influences on

lithosphere systems

Lecture and

discussion

Lecture and

discussion

Lecture and

discussion

Daily and monthly

Daily and monthly

Daily and monthly

exams

exams

exams

228. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

229. Course	229. Course Name:				
Geomorphology	Geomorphology				
230. Course	ourse Code:				
231. Semes	ter / Year:				
Semester 1/2023	-2024				
	ption Preparation Date:				
13/9/2023					
233. Availa	ble Attendance Forms:				
Lectures					
234. Number	er of Credit Hours (Total) / Number of Units (Total)				
45 hours/45	credits				
	e administrator's name (mention all, if more than one name)				
Name: Laith					
Email: <u>.sadee@</u>	uoanbar.edu.iq				
	Objectives				
Course Objectives	<ul> <li>Definition of geomorphology, its development, its field of work, and its relationship to other sciences.</li> </ul>				
	<ul> <li>Geomorphological factors and processes.</li> </ul>				
	• The time factor in geomorphological processes				
227 5 1:	(geological time).				
	237. Teaching and Learning Strategies				
Strategy					
Learning and teaching strategies and methods dependent in					
ım	plementation of the program in general.				

238. Cours Week	Se Structur Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Definition of geomorphology, its development, its field of work, and its relationship to other sciences.	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Geomorphological factors and processes.	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The time factor in geomorphological processes (geological time).	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Basic ideas in directing geomorphological processes.	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	The shape of the Earth, the construction of the Earth, and his general idea of the Earth in general.	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Earth's topography.	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	The solar system.	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Earthquakes, how they occur and their types.	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Volcanoes: types of volcanic materials, forms of volcanoes.	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Geographic distribution of volcanoes, effects of volcanoes.	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Rocks, their structures, origins and types.	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Igneous rocks, sedimentary rocks, metamorphic rocks.	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Earth's crust movements.	Lecture and discussion	Daily and monthly exams

fourteenth	3	Understanding and	Geon	norphological sea	Lecture and	Daily and monthly
		perception		action.	discussion	exams
	3	Understanding and	Marine e	erosion and its	Lecture and	Daily and monthly
Fifteenth		perception	impact o	n shaping coastal	discussion	exams
Filteelitii			geomorp	hological		
			phenome	ena.		
239. Cou	ırse Evalu	ation				
Distributin	g the score	out if 100 accord	ing to tl	ne tasks assigr	ned to the stud	dent such as daily
preparatio	n, daily oral	, monthly, or writte	en exam	s, reports,etc	•	
240. Lea	rning and	Teaching Resour	ces			
Required te	xtbooks ( cu	rricular books, if an	y)			
Main refere	Main references (source)					
	`					
Recommen	Recommended books and references (scientific					
journals, reports)						
Electronic references, websites.						

241. Cou	1. Course Name:						
Industry geogra	Industry geography						
242. Cou	urse Code:						
243. Sem	nester / Year:						
Semester 1/202	23-2024						
	cription Preparation Date:						
16/9/2023							
245. Ava	ilable Attendance Forms:						
Lectures							
	nber of Credit Hours (Total) / Number of Units (Total)						
45 hours/	45 credits						
	urse administrator's name (mention all, if more than one name)						
	Yassin Hamid Bidaa Majoul Shalal						
	vassin_almehemdi75@uoanbar.edu.iq						
	esar Abdullah Hamad Farhan						
Email: gys	ser.abdullah@uoanbar.edu.iq						
248. Cou	rae Objectives						
Course Objectives	rse Objectives  • Introducing the geography of the industry and the						
Course Objectives	factors of its emergence						
The stages of development of the branch of industry							
geography and its functions							
<ul> <li>The concept of the industry / its stages of development / its types / its importance</li> </ul>							
• • Industrial/capital localization factors							
249. Teaching and Learning Strategies							
Strategy							
Learning and teaching strategies and methods dependent in							
j	implementation of the program in general.						

250. Cours Week	se Structur Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept of industry geography and the factors of its emergence	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Stages of development of the branch of industrial geography and its functions	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The concept of the industry / stages of its development / types / importance	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Factors of industrial/capital endemism	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Fuel and energy sources/manpower	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Market/transportation	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Land/primary raw materials	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Economics of industrial agglomeration/industrial relations	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Modern industrial technological progress / government policies	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Patterns of industrial settlement	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Industrial localization policies for selected countries (France - Britain - Iraq - Poland - Malaysia).	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	•	Lecture and discussion	Daily and monthly exams

Thirteenth	3	Understanding and perception		ls of analyzing the ial structure in the region	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception			Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception		phical distribution industry in the	Lecture and discussion	Daily and monthly exams
251. Co	urse Evalua	ation				
Distributing the score out if 100 according to the tasks assigned to the student such as preparation, daily oral, monthly, or written exams, reports,etc.  252. Learning and Teaching Resources						dent such as daily
		rricular books, if an				
Main references (source)				ı		
Recommended books and references (scientific journals, reports)						
Electronic references, websites.						

253. C	ourse Name:						
Weather scien	Weather science						
254. C	urse Code:						
255. Se	emester / Year:						
Semester 1/2	2023-2024						
256. D	escription Preparation Date:						
15/9/2023							
257. A	vailable Attendance Forms:						
Lecture							
	(umber of Credit Hours (Total) / Number of Units (Total)						
45 hour	rs/45 credits						
	ourse administrator's name (mention all, if more than one name)						
	Saadoun Musharraf Hussein						
	adoon.mashreef@uoanbar.edu.iq						
	ourse Objectives						
Course Objective	•						
	<ul> <li>• The development of weather science</li> <li>• The atmosphere and its components</li> </ul>						
	• Layers of the atmosphere						
261. T	eaching and Learning Strategies						
Strategy							
	Learning and teaching strategies and methods dependent in						
	implementation of the program in general.						

262. Cours	se Structur	e
Week	Hours	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Concepts about weather	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	The development of weather science	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The atmosphere and its components	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Layers of the atmosphere	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Heat production	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Factors affecting the thermal value of radiation on the Earth's surface	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Factors affecting the horizontal distribution of degrees on the Earth's surface	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Heat Transfer A- Vertical heat transfer	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	B - Horizontal heat transfer	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Measuring weather elements	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Atmospheric pressure	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Wind	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Currents	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Relative humidity	Lecture and discussion	Daily and monthly exams

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

### 264. Learning and Teaching Resources

Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

ourse Name:						
Geography of cities						
ourse Code:						
mester / Year:						
023-2024						
escription Preparation Date:						
vailable Attendance Forms:						
5						
umber of Credit Hours (Total) / Number of Units (Total)						
s/45 credits						
ourse administrator's name (mention all, if more than one name)						
Ioda Hussein Ali						
huda.ali@uoanbar.edu.iq						
ourse Objectives						
Objectives of urban geography and its field of study     (methods of research in urban geography)						
• •						
Location and location of cities						
• The internal structure of cities and its theories (controls						
for the internal structure of cities  273. Teaching and Learning Strategies						
denning and Dearming Strategies						
Learning and teaching strategies and methods dependent in						
implementation of the program in general.						

274. Course Structure						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
the first	3	Understanding and perception	First: the concept of energy	Lecture and discussion	Daily and monthly exams	
The second	3	Understanding and perception	Secondly, the importance of energy	Lecture and discussion	Daily and monthly exams	
the third	3	Understanding and perception	Evolution of energy use	Lecture and discussion	Daily and monthly exams	
the fourth	3	Understanding and perception	Types of energy	Lecture and discussion	Daily and monthly exams	
Fifth	3	Understanding and perception	Forms and sources of energy	Lecture and discussion	Daily and monthly exams	
The sixth	3	Understanding and perception	Traditional fossil energy sources	Lecture and discussion	Daily and monthly exams	
The seventh	3	Understanding and perception	Coal	Lecture and discussion	Daily and monthly exams	
The eighth	3	Understanding and perception	Petroleum ((oil definition))	Lecture and discussion	Daily and monthly exams	
The ninth	3	Understanding and perception	The oil industry and its role in the Iraqi economy	Lecture and discussion	Daily and monthly exams	
The tenth	3	Understanding and perception	Iraqi oil reserves and the international market	Lecture and discussion	Daily and monthly exams	
eleventh	3	Understanding and perception	The relationship of the oil industry with the state's general budgets	Lecture and discussion	Daily and monthly exams	
Twelfth	3	Understanding and perception	Natural gas	Lecture and discussion	Daily and monthly exams	
Thirteenth	3	Understanding and perception	Nuclear energy: uranium	Lecture and discussion	Daily and monthly exams	
fourteenth	3	Understanding and perception	The relationship of energy to sustainable development	Lecture and discussion	Daily and monthly exams	
Fifteenth	3	Understanding and perception	Energy and dimensions of sustainable developm	Lecture and discussion	Daily and monthly exams	
275. Cou	ırse Evalu	ation				
	_		ling to the tasks assigr en exams, reports,eto		dent such as daily	
		Teaching Resour				
•	`	urricular books, if ar	ny)			
Main refere	nces (source	e)				
		and references (sc	ientific			
journals, rep						
Electronic r		vebsites.				

277. Co	urse Name:					
Environmental						
278. Co	ırse Code:					
	mester / Year:					
Semester 1/20						
280. De	scription Preparation Date:					
8/9/2023						
281. Av	railable Attendance Forms:					
Lectures						
282. Nu	mber of Credit Hours (Total) / Number of Units (Total)					
45 hours	s/45 credits					
283. Co	ourse administrator's name (mention all, if more than one name)					
Name: M	lay God protect you, Jabbar Matar					
Email: : ec	dw.amana_jabbar@uoanbar.edu.iq					
284. Co	ourse Objectives					
<b>Course Objectives</b>	Conceptual framework of the environment and					
	environmental problems: the concept of the environment,					
	types of environment.					
	<ul> <li>The concept of the ecosystem, the concept of the environmental problem, and the classification of</li> </ul>					
environmental problems.						
Pollution, its stages of development and ways to combat						
	it.					
285. Teaching and Learning Strategies						
Strategy						
Learning and teaching strategies and methods dependent						
implementation of the program in general.						

286. Course Structure						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
the first	3	Understanding and perception	Conceptual framework of the environment and environmental problems: the concept of the environment, types of environment.	Lecture and discussion	Daily and monthly exams	
The second	3	Understanding and perception	The concept of the ecosystem, the concept of the environmental problem, classification of environmental problems.	Lecture and discussion	Daily and monthly exams	
the third	3	Understanding and perception	Pollution, its stages of development and ways to combat it.	Lecture and discussion	Daily and monthly exams	
the fourth	3	Understanding and perception	Types of pollutants:	Lecture and discussion	Daily and monthly exams	
Fifth	3	Understanding and perception	1- Air pollution, its main sources, types of air pollutants.	Lecture and discussion	Daily and monthly exams	
The sixth	3	Understanding and perception	2- Water pollution, oxygen levels, water specifications, water pollutants and their sources in our region.	Lecture and discussion	Daily and monthly exams	
The seventh	3	Understanding and perception	3- Soil pollution: causes of soil pollution, solid waste and its types, damage to the environment caused by solid waste.	Lecture and discussion	Daily and monthly exams	
The eighth	3	Understanding and perception	4- Radioactive contamination: sources of radioactive contamination, environmental disasters from radioactive contamination	Lecture and discussion	Daily and monthly exams	
The ninth	3	Understanding and perception	5- Chemical pollution: Types of chemical	Lecture and discussion	Daily and monthly exams	

			pollution		
The tenth	3	Understanding and perception	7- Electromagnetic pollution: The dangers of electromagnetic pollution to human health.	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	8- Sewage pollution.	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Pollution control: 1- Government activity. 2- Scientific efforts. 3- Institutions and factories. 4- Environmental organizations. 5- Individual efforts.	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Global warming: the concept of global warming, sources of greenhouse gas emissions, greenhouse gases and their effects.	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	The ozone layer: the formation of ozone gas, the problem of ozone layer depletion, the ozone hole, the environmental effects of ozone layer depletion.	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Desertification: cases of desertification and their degree of severity, causes of desertification, methods of combating desertification.	Lecture and discussion	Daily and monthly exams

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

288. Learning and Teaching Resources				
Required textbooks ( curricular books, if any)				
Main references (source)				
Recommended books and references (scientific				
journals, reports)				
Electronic references, websites.				

289.	Course l	ourse Name:				
Energy geography						
290.	Course	ourse Code:				
291.	Semeste	Semester / Year:				
Semester 1/2023-2024						
292.	Descrip	escription Preparation Date:				
17/9/2023						
293.	Availabl	vailable Attendance Forms:				
Lectures						
294.		umber of Credit Hours (Total) / Number of Units (Total)				
45 hours/45 credits						
295.	Course	Course administrator's name (mention all, if more than one name)				
Nam	e: MD: Sa	lah Adnan Majoul Shalal				
Email: salah.aaa@uoanber.edu.iq						
	296. Course Objectives					
Course Objec	tives	<ul> <li>1- Introducing students to the nature of traditional energy and its types</li> </ul>				
		• 2- Explain the importance of traditional energy				
		• • 3 - Development of energy use				
• 4- The relationship of ene						
297.	Teaching	g and Learning Strategies				
Strategy	T					
		Learning and teaching strategies and methods dependent in				
	Imp	implementation of the program in general.				

298. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	First: the concept of energy	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Secondly, the importance of energy	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Evolution of energy use	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Types of energy	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Forms and sources of energy	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Traditional fossil energy sources	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Coal	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Petroleum ((oil definition))	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception Understanding and	The oil industry and its role in the Iraqi economy Iraqi oil reserves and the	Lecture and discussion Lecture and	Daily and monthly exams  Daily and monthly
The tenth	3	perception Understanding and	international market  The relationship of the	discussion  Lecture and	exams  Daily and monthly
eleventh	3	perception	oil industry with the state's general budgets	discussion	exams
Twelfth	3	Understanding and perception	Natural gas	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Nuclear energy: uranium	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	The relationship of energy to sustainable development	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Energy and dimensions of sustainable developm	Lecture and discussion	Daily and monthly exams
	ırse Evalu				
Distributing the score out if 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,etc.					
300. Learning and Teaching Resources					
Required textbooks ( curricular books, if any)					
Main references (source)					
Recommended books and references (scientific journals, reports)					
TOURNAIS FEE					

### **Description**

301. Cou	arse Name:			
Remote Sensing				
302. Cou	urse Code:			
	<b>,</b>			
Semester 2/20				
	scription Preparation Date:			
6/2/2024				
	ailable Attendance Forms:			
Lectures				
	mber of Credit Hours (Total) / Number of Units (Total)			
45 hours	/45 credits			
307. Co	urse administrator's name (mention all, if more than one name)			
Name: Al	nmed Salman Hammadi			
Email: :	ahmed.salman@uoanbar.edu.iq			
	urse Objectives			
<b>Course Objectives</b>	A historical overview of remote sensing  The sensing and their techniques.			
	<ul> <li>Types of remote sensing and their technology</li> <li>Sources of information in remote sensing</li> </ul>			
309. Tea	aching and Learning Strategies			
Strategy				
	Learning and teaching strategies and methods dependent in			
	implementation of the program in general.			

210 Carre	a Cton ot v					
310. Cours	Hours		Unit	on subject	Laguning	Evaluation
vveek	nours	Required Learning		or subject name	Learning method	method
		Outcomes		name	memou	methou
	2	Understanding and	Introd	luction to remote	Lecture and	Daily and monthly
the first	3	perception		sensing	discussion	exams
TD1 1	3	Understanding and	A histor	rical overview of	Lecture and	Daily and monthly
The second	7	perception		remote sensing	discussion	exams
the third	3	Understanding and		of remote sensing	Lecture and	Daily and monthly
uic uiii u		perception		their technology	discussion	exams
the fourth	3	Understanding and	Sources	of information in	Lecture and	Daily and monthly
		perception	1 DI	remote sensing	discussion	exams
Fifth	3	Understanding and	I- Pho	otographic sensor	Lecture and	Daily and monthly
	2	perception Understanding and	2 N	sources Ion-photographic	discussion Lecture and	exams  Daily and monthly
The sixth	3	perception	Z- IN	sensor sources	discussion	exams
	3	Understanding and	Types	of space imaging	Lecture and	Daily and monthly
The seventh	3	perception	1 7 1 5 5	devices	discussion	exams
The sighth	3	Understanding and	Satellite	image and image	Lecture and	Daily and monthly
The eighth	3	perception	processi	ng specifications	discussion	exams
The ninth	3	Understanding and	Satelli	te characteristics	Lecture and	Daily and monthly
		perception			discussion	exams
The tenth	3	Understanding and	Ren	note sensing data	Lecture and	Daily and monthly
	-	perception	1 \ T	sources	discussion	exams
eleventh	3	Understanding and perception	1) La	and sat 7 satellite	Lecture and discussion	Daily and monthly
	3	Understanding and	2) Oui	data ck bird 2 satellite	Lecture and	exams  Daily and monthly
Twelfth	3	perception	2) Quit	data	discussion	exams
TT1 1	3	Understanding and	3) IKono	os 1 satellite data	Lecture and	Daily and monthly
Thirteenth	3	perception			discussion	exams
	3	Understanding and	Interpre	tation of satellite	Lecture and	Daily and monthly
fourteenth	J	perception		images 1- Visual	discussion	exams
				interpretation		
T21.6:1	3	Understanding and	_	l interpretation	Lecture and	Daily and monthly
Fifteenth		perception		ote sensing	discussion	exams
211 0	Г 1	<u> </u>	application	ons		
311. Course Evaluation						
Distributing the score out if 100 according to the tasks assigned to the student such as daily						
preparation	n, daily ora	l, monthly, or writt	en exams	s, reports,etc		
		Teaching Resour				
		urricular books, if an				
			-57			
Main refere	nces (sourc	c)				

Recommended books and references (scientific journals, reports)	
Electronic references, websites.	

313. Co	Course Name:		
Remote Sensing			
314. Co	urse Code:		
	Semester / Year:		
Semester 2/20	023-2024		
	scription Preparation Date:		
6/2/2024			
317. Av	vailable Attendance Forms:		
Lectures			
318. Nu	imber of Credit Hours (Total) / Number of Units (Total)		
45 hours	s/45 credits		
	ourse administrator's name (mention all, if more than one name)		
	hmed Salman Hammadi		
Email: :	<u>ahmed.salman@uoanbar.edu.iq</u>		
	ourse Objectives		
<b>Course Objectives</b>	<ul> <li>• A historical overview of remote sensing</li> <li>• Types of remote sensing and their technology</li> </ul>		
	<ul> <li>Sources of information in remote sensing</li> </ul>		
321. Te	aching and Learning Strategies		
Strategy			
	Learning and teaching strategies and methods dependent in		
	implementation of the program in general.		

322.Cours	se Structui	e			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Introduction to remote sensing	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	A historical overview of remote sensing	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Types of remote sensing and their technology	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Sources of information in remote sensing	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	1- Photographic sensor sources	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception Understanding and	2- Non-photographic sensor sources Types of space imaging	Lecture and discussion Lecture and	Daily and monthly exams  Daily and monthly
The seventh	3	perception Understanding and	devices  Satellite image and image	discussion Lecture and	exams  Daily and monthly
The eighth	3	perception Understanding and	processing specifications Satellite characteristics	discussion Lecture and	exams  Daily and monthly
The ninth	3	perception Understanding and	discussion exams		exams
The tenth	3	perception Understanding and	sources discussion exams		
eleventh Twelfth	3	perception Understanding and	data 2) Quick bird 2 satellite	discussion Lecture and	exams Daily and monthly
Thirteenth	3	perception Understanding and	data 3) IKonos 1 satellite data	discussion Lecture and	exams Daily and monthly
fourteenth	3	Understanding and perception	Interpretation of satellite images 1- Visual interpretation	Lecture and discussion	exams Daily and monthly exams
Fifteenth	3	Understanding and perception	2- Digital interpretation and remote sensing applications	Lecture and discussion	Daily and monthly exams
323. Course Evaluation					
Distributing the score out if 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,etc.					
324. Lea	rning and	Teaching Resour	rces		
Required te	xtbooks ( cı	ırricular books, if an	y)		

Main references (source)

Recommended books and references (scientific journals, reports)	
Electronic references, websites.	

325.	Course Name:
Geographic	c statistics
326.	Course Code:
327.	Semester / Year:
	2/2023-2024
328.	Description Preparation Date:
6/2/2024	
329.	Available Attendance Forms:
	rures
330.	Number of Credit Hours (Total) / Number of Units (Total)
45 h	iours/45 credits
004	
331.	Course administrator's name (mention all, if more than one name)
	ne: Walid Hanoush Hamad
Ema	il: <u>Waled.hanoosh@uoanbar.edu.iq</u>
332.	Course Objectives
Course Object	, J
	• • Data and variables
	<ul> <li>Data collection sources</li> </ul>
222	• • Data collection method
333.	Teaching and Learning Strategies
Strategy	I coming and to obige structuring and motherly decimal and in
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

2	3/	Cource	Structure
7	174	COHISE	Similarine

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Definition of statistics	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Data and variables	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Data collection sources	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Data collection method	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Tab and display data	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Graphical representation of frequency tables	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Tabular display of data	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Statistical measures (measures of central tendency)	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	•	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	1- Arithmetic mean 2- Weighted arithmetic mean 3- Median 4- Mode 5- Geometric mean 6- Harmonic mean	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	2-	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	3-	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Measures of dispersion: 1- Range, 2- Standard Deviation, 3- Mean Deviation, 4- Variance	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Definition of statistics	Lecture and discussion	Daily and monthly exams

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

336. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

337.	Course Name:		
Services			
338.	Course Code:		
339.	Semester / Year:		
Semester 1	L/ 2023-2024		
340.	Description Preparation Date:		
8/2/2024			
341.	Available Attendance Forms:		
Lecti	ures		
342.	Number of Credit Hours (Total) / Number of Units (Total)		
45 h	ours/45 credits		
343.	Course administrator's name (mention all, if more than one name)		
Nam	e: Taha Ahmed Abd Abtan		
Emai	il: : alani.kamal.5@uoanbar.edu.iq		
344.	Course Objectives		
Course Objec			
	Planning forms • Planning services •		
	Types of services		
345. Teaching and Learning Strategies			
Strategy			
	Learning and teaching strategies and methods dependent in		
	implementation of the program in general.		
	1 0 0		

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3/16	( 'Ourca	Structura

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Planning concept	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	• Forms of planning	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Planning services	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Types of services	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Health Services	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Educational services	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Religious services	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	transport services	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Telecommunications Services	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Foundational infrastructure services	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Water services	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Municipal services	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Development	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	sustainable development	Lecture and discussion	Daily and monthly exams

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

#### 348. Learning and Teaching Resources

Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

349. Cou	urse Name:
Population geog	graphy
350. Cou	urse Code:
351. Sen	mester / Year:
Semester 2/20	23-2024
352. Des	scription Preparation Date:
3/2/2024	
353. Ava	ailable Attendance Forms:
Lectures	
354. Nu	mber of Credit Hours (Total) / Number of Units (Total)
45 hours	/45 credits
	urse administrator's name (mention all, if more than one name)
_	aiser Abdullah Ahmed
	bdullah@uoanbar.edu.iq
	urse Objectives
Course Objectives	The concept of population geography and its
	relationship to other sciences  • The most important statistical sources for studying
	population geography
	<ul> <li>Population growth, methods of measuring it, its stages,</li> </ul>
	or factors affecting it
357. Tea	aching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept of population geography and its relationship to other sciences	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	The most important statistical sources for studying population geography	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Population growth, methods of measuring it, its stages, or factors affecting it	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Fertility and childbearing - methods of measuring it and factors affecting it	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Mortality - ways to measure it and know its most important causes	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Migration - its types - characteristics - data sources - causes	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Geographical distribution of population	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Factors affecting population distribution	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Population density, its types and methods of measuring it	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Composition and composition of the population - qualitative composition -	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Age composition -	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Lecture and discussion discussion Daily and monthly		
Distributing preparation 360. Lea	n, daily oral rning and xtbooks ( cu	out if 100 acco , monthly, or wr Teaching Reso pricular books, if			dent such as daily

Electronic references, websites.	

361.	Course Name:		
Geograph	ic thought		
362.	Course Code:		
363.	Semester / Year:		
	2/ 2023-2024		
364.	Description Preparation Date:		
9/2/2024			
365.	Available Attendance Forms:		
	tures		
366.	Number of Credit Hours (Total) / Number of Units (Total)		
45 h	nours/45 credits		
367.	Course administrator's name (mention all, if more than one name)		
Nan	Name: Kamal Abdullah Hassan		
Ema	ail: <u>Khmal.abdullah@uoanbar.edu.iq</u>		
368.	Course Objectives		
Course Obje	<ul> <li>Introduction to geographical thought</li> <li>Geography and its relationship with other sciences</li> <li>Branches of geography and their relationship to other fields</li> <li>Regional concept and regional geography</li> </ul>		
369.	Teaching and Learning Strategies		
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.		

370	Course	Structure
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Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Introduction to geographical thought	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Geography and its relationship with other sciences	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Branches of geography and their relationship to other fields	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Regional concept and regional geography	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Human and natural geography and their branches	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Geographical thought in antiquity	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Geographical thought in Iraqi civilization	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Geographical thought in Egyptian civilization	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Geographical thought in the Phoenician civilization	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Geographical thought in Greek civilization	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Roman geographical thought	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Geographical thought before Islam	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Arab-Islamic geographical thought	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Fields of Arab-Islamic geography	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Geographical discoveries - objectives of geographical discoveries	Lecture and discussion	Daily and monthly exams

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

#### 372. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

373.	Course Name:	
The space is	s theoretical	
374.	Course Code:	
375.	Semester / Year:	
Semester 2/	/ 2023-2024	
376.	Description Preparation Date:	
2/2/2024		
377.	Available Attendance Forms:	
Lectu	res	
378.	Number of Credit Hours (Total) / Number of Units (Total)	
45 ho	ours/45 credits	
379.	Course administrator's name (mention all, if more than one name)	
Name: Khaled Ibrahim Hussein		
Email: kahusseen@uoanbar.edu.iq		
	Course Objectives	
Course Objecti	<ul> <li>The concept of teratology</li> <li>The development of surveying science</li> <li>Departments of surveying science</li> </ul>	
	Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.	

382.Cours	se Structure
XX7 1	TT

	se Structur	1	Timit on auticat	I saunina	Evolvetion
Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
4 6	2	Understanding and	The concept of space	Lecture and	Daily and monthly
the first	3	perception	science	discussion	exams
TP1	3	Understanding and	Departments of	Lecture and	Daily and monthly
The second	7	perception	surveying science	discussion	exams
the third	3	Understanding and	The development of	Lecture and	Daily and monthly
the till t		perception	surveying science	discussion	exams
	3	Understanding and	The relationship of	Lecture and	Daily and monthly
the fourth		perception	surveying to other	discussion	exams
			sciences		
Fifth	3	Understanding and	Public space	Lecture and	Daily and monthly
1 11(11		perception		discussion	exams
The sixth	3	Understanding and	Pictorial space	Lecture and	Daily and monthly
		perception		discussion	exams
The seventh	3	Understanding and	Space and its relationship	Lecture and	Daily and monthly
		perception	to technology	discussion	exams
The eighth	3	Understanding and	The relationship of space	Lecture and	Daily and monthly
		perception	to geography	discussion	exams
The ninth	3	Understanding and	green areas	Lecture and	Daily and monthly
	_	perception		discussion	exams
The tenth	3	Understanding and	Spaces and application	Lecture and	Daily and monthly
	_	perception		discussion	exams
eleventh	3	Understanding and	Space and mathematical	Lecture and	Daily and monthly
		perception	operations	discussion	exams
Twelfth	3	Understanding and	Surveying and	Lecture and	Daily and monthly
		perception	information systems	discussion	exams
Thirteenth	3	Understanding and	Scientific space	Lecture and	Daily and monthly
		perception		discussion	exams
fourteenth	3	Understanding and	Actual space	Lecture and	Daily and monthly
		perception		discussion	exams
Fifteenth	3	Understanding and	Theoretical space	Lecture and	Daily and monthly
Timeenin		perception		discussion	exams

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

#### 384. Learning and Teaching Resources

Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

385. Course	Name:				
Applied climate	Applied climate				
386. Course	Course Code:				
	er / Year:				
Semester 2/ 2023-	2024				
388. Descrip	Description Preparation Date:				
8/2/2024					
389. Availab	ble Attendance Forms:				
Lectures					
390. Number	r of Credit Hours (Total) / Number of Units (Total)				
45 hours/45	credits				
391. Course administrator's name (mention all, if more than one name)					
	l Rajab Abdul Hakim				
	ameed1@uoanbar.edu.iq				
	Maher Hammad				
Email: <u>luai.ha</u>	ımmad@uoanbar.edu.iq				
	Objectives				
Course Objectives	<ul> <li>Definition of applied climate, its origins and development</li> </ul>				
	• The origin and development of climate				
	Development of applied climatology				
	Recent trends in applied climatology				
	393. Teaching and Learning Strategies				
Strategy					
	rning and teaching strategies and methods dependent in				
implementation of the program in general.					

394 Course Structure	30/	Course	Structure
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Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning Outcomes	name	method	method
the first	3	Understanding and perception	The concept of applied climatology and the direction of its study	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Definition of applied climate, its origins and development	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Climate origin and development	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Development of applied climatology	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Recent trends in applied climatology	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	The importance of studying applied climate	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Climatological information measuring devices	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Climatic stations and their types	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Monitoring devices in the upper atmosphere	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Solar radiation	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	the heat	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Pressure and wind	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Statistical methods	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Evapotranspiration and dehydration	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Water budget	Lecture and discussion	Daily and monthly exams

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

#### 396. Learning and Teaching Resources

Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

397. Co	Course Name:				
Natural Resou	Natural Resources				
398. Co	Course Code:				
	emester / Year:				
	Semester 2/ 2023-2024				
	escription Preparation Date:				
12/2/2024					
	vailable Attendance Forms:				
Lecture					
	umber of Credit Hours (Total) / Number of Units (Total)				
45 hour	s/45 credits				
	ourse administrator's name (mention all, if more than one name)				
	Name: Ziad Freih Matar				
	eyadfrayeh@uoanbar.edu.iq				
Course Objectives	404. Course Objectives				
Course Objectives	• The concept of natural resources (their importance - causes - study).				
	Classification of natural resources				
	• • - Spatial classification:				
	eaching and Learning Strategies				
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.				

100	<u>C</u>	Structure
411h	College	\friicfiire

Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
the first	3	Understanding and	The concept of natural resources (its importance -	Lecture and	Daily and monthly
	3	perception	reasons - its study).	discussion	exams
The second	3	Understanding and	Classification of natural	Lecture and	Daily and monthly
The second		perception	resources 1- Organic resources	discussion	exams
the third	3	Understanding and	Structural Classification A- Self-resources	Lecture and	Daily and monthly
the time		perception		discussion	exams
the fourth	3	Understanding and	- Natural resources with inorganic sources	Lecture and	Daily and monthly
		perception		discussion	exams
Fifth	3	Understanding and	2- Spatial classification	Lecture and	Daily and monthly
		perception	N. 1	discussion	exams
FD1 1 1	3	Understanding and	Natural resources - have common sources and are	Lecture and	Daily and monthly
The sixth		perception	frequently found on the surface	discussion	exams
			of the Earth		
The seventh	3	Understanding and	Natural resources with sources found in limited places on the	Lecture and	Daily and monthly
The seventh		perception	Earth's surface	discussion	exams
The eighth	3	Understanding and	Production classification	Lecture and	Daily and monthly
The eighth		perception		discussion	exams
The ninth	3	Understanding and	1- Permanent resources 2- Renewable resources 3- Non-	Lecture and	Daily and monthly
The minn		perception	renewable resources	discussion	exams
The tenth	3	Understanding and	Phenotypic classification	Lecture and	Daily and monthly
The tenth	ð	perception		discussion	exams
eleventh	3	Understanding and	Tangible resources 2- Intangible	Lecture and	Daily and monthly
Cicventii		perception	resources	discussion	exams
Twelfth	3	Understanding and	natural resources departments	Lecture and	Daily and monthly
1 Welltin		perception		discussion	exams
Thirteenth	3	Understanding and	1- Water resources (surface water - atmospheric water).	Lecture and	Daily and monthly
		perception		discussion	exams
fourteenth	3	Understanding and	2- Natural plant resources	Lecture and	Daily and monthly
		perception		discussion	exams
Fifteenth	3	Understanding and	3- Animal resources 4- Mineral resources	Lecture and	Daily and monthly
1 1110011111		perception	resources	discussion	exams

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

#### 408. Learning and Teaching Resources

Required textbooks ( curricular books, if any)

Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

409.	Course Name:
410.	Course Code:
411.	Semester / Year:
Semester 2	/ 2023-2024
412.	Description Preparation Date:
12/2/2024	
413.	Available Attendance Forms:
Lectu	res
414.	Number of Credit Hours (Total) / Number of Units (Total)
45 ho	ours/45 credits
415.	Course administrator's name (mention all, if more than one name)
Name	e: Laith Saadi Aftan
Email	l: <u>laith.sadee@uoanbar.edu.iq</u>
416.	Course Objectives
Course Object	1
	<ul> <li>concerned with studying it and its quantities in nature</li> <li>• The water cycle in nature and the water balance</li> </ul>
	Evaporation and methods for calculating it
417.	Teaching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

Week	Hours	Required	Unit or subject name	Learning	Evaluation
		Learning		method	method
		Outcomes			
		Understanding	An introduction to water	Lecture and	Daily and monthly
the first	3	and perception	science and the specializations	discussion	exams
			concerned with its study and its quantities in nature		
The second	3	Understanding	The water cycle in nature and	Lecture and	Daily and monthly
The second	3	and perception	the water balance	discussion	exams
the third	3	Understanding	Evaporation and methods for	Lecture and	Daily and monthly
the till t		and perception	calculating it	discussion	exams
the fourth	3	Understanding	Precipitation and methods of	Lecture and	Daily and monthly
the fourth		and perception	calculating it	discussion	exams
Fifth	3	Understanding	River basins and watercourse	Lecture and	Daily and monthly
Titti	_	and perception	classification	discussion	exams
The sixth	3	Understanding	Water drainage system and	Lecture and	Daily and monthly
THE SIXIII		and perception	methods for measuring it	discussion	exams
The seventh	3	Understanding	Factors affecting water	Lecture and	Daily and monthly
The seventh		and perception	drainage	discussion	exams
The eighth	3	Understanding	River system and its sources	Lecture and	Daily and monthly
The eighth	_	and perception	of nutrition	discussion	exams
The ninth	3	Understanding	Lakes and swamps	Lecture and	Daily and monthly
THE IIIIIII		and perception		discussion	exams

Definition of groundwater and

Factors affecting groundwater

Groundwater characteristics,

Water problems in arid and

Ways to address the water

Evaluation of water resources

in Iraq (Tigris and Euphrates

and its spatial variation

quality and quantity

semi-arid areas

problem

its concretions

Lecture and

Lecture and

Lecture and

discussion

discussion

discussion

Lecture and

discussion

Lecture and

discussion

discussion

Lecture and

Daily and monthly

exams

exams

exams

exams

exams

exams

# 419. Course Evaluation Distributing the score out

Understanding

and perception

3

3

3

3

The tenth

eleventh

Twelfth

Thirteenth

fourteenth

Fifteenth

418. Course Structure

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

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420. Learning and Teaching Resources	
Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

421.	Course Name:		
south americ	ca can be a second of the can be a second of		
422.	Course Code:		
423.	Semester / Year:		
Semester 2,	/ 2023-2024		
424.	Description Preparation Date:		
3/2/2024			
425.	Available Attendance Forms:		
Lectu	res		
426.	Number of Credit Hours (Total) / Number of Units (Total)		
45 ho	urs/45 credits		
427.	427. Course administrator's name (mention all, if more than one name)		
Name	e: Kamal Abdullah Hassan		
Email	: <u>Khmal.abdullah@uoanbar.edu.iq</u>		
428.	Course Objectives		
428. Course Objecti	ives • Location - area - borders - geographical extension		
= :	ives      • Location - area - borders - geographical extension     • Geological situation of the continent		
= :	<ul> <li>Location - area - borders - geographical extension</li> <li>Geological situation of the continent</li> <li>Characteristics of the topographic situation - the eastern</li> </ul>		
= :	ives      • Location - area - borders - geographical extension     • Geological situation of the continent		
Course Objecti	<ul> <li>Location - area - borders - geographical extension</li> <li>Geological situation of the continent</li> <li>Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands</li> <li>Climatic characteristics on the continent - temperature characteristics - precipitation characteristics</li> </ul>		
Course Objects 429.	<ul> <li>Location - area - borders - geographical extension</li> <li>Geological situation of the continent</li> <li>Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands</li> <li>Climatic characteristics on the continent - temperature</li> </ul>		
Course Objecti	<ul> <li>Location - area - borders - geographical extension</li> <li>Geological situation of the continent</li> <li>Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands</li> <li>Climatic characteristics on the continent - temperature characteristics - precipitation characteristics</li> </ul>		

implementation of the program in general.	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Location - area - borders - geographical extension	Lecture and discussion	Daily and monthly
The second	3	Understanding and perception	Geological situation of the continent	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Climatic characteristics of the continent - temperature characteristics - precipitation characteristics	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Climatic regions on the continent	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Natural vegetation and geographical distribution of plant regions	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Soils on the continent and its geographical regions	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Water Resources	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Human and economic characteristics of the continent - the origin of the population on the continent - new immigrants	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Economic characteristics of the continent's population - agricultural activity - agricultural	Lecture and discussion	Daily and monthly exams

			crops on the continent		
			and their geographical		
			production - investock		
eleventh	3	Understanding and perception	Geographical distribution of livestock on the continent	discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Mineral wealth and industrial activity	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Transport on the continent		Daily and monthly exams
fourteenth	3	Understanding and perception	Regional study of some countries of the continent		Daily and monthly exams
Fifteenth	3	Understanding and perception	Republic of Brazil	Lecture and discussion	Daily and monthly exams
431. Cou	ırse Evalu	ation			
	•		ing to the tasks assigen exams, reports,et		dent such as daily
432. Lea	rning and	Teaching Resour	ces		
Required textbooks ( curricular books, if any)		y)			
Main references (source)					
Recommend journals, rep		and references (sci	entific		
Electronic r	eferences, w	vebsites.			

433.	Course Name:
The Arab w	vorld
434.	Course Code:
435.	Semester / Year:
Semester 2	2/2023-2024
436.	Description Preparation Date:
5/2/2024	
437.	Available Attendance Forms:
Lect	ures
438.	Number of Credit Hours (Total) / Number of Units (Total)
45 h	ours/45 credits
439.	Course administrator's name (mention all, if more than one name)
Nam	ie: Ahmed Dawoud Hamid
Ema	il: <u>Ahmed.daood@ouanbar.edu.iq</u>
440.	Course Objectives
Course Object	on the astronomical, geographical and political location and its importance at the local and regional levels  • Earth movements and the geological formation of the Arab world  • Geographical distribution of terrain features (mountains - plains - plateaus)  • Defining the geography of the Arab world, with a focus on the astronomical, geographical and political location and its importance at the local and regional levels
441.	Teaching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in

442. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Defining the geography of the Arab world, with a focus on the astronomical, geographical and political location and its importance at the local and regional levels	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Earth movements and the geological formation of the Arab world	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Geographical distribution of terrain features (mountains - plains - plateaus)	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Climatic elements of the Arab world, mentioning the most important climatic regions	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Soils and natural plants in the Arab world	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Water resources in the Arab world	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Demographic characteristics of the Arab world	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Migration - its causes - effects - treatment	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	The components of agricultural production in the Arab world	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Arab oil and its economic effects	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Spatial distribution of gas in the Arab world	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Minerals in the Arab world	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Industry in the Arab world	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Transportation in the Arab world	Lecture and discussion	Daily and monthly exams

Fifteenth	3	Understanding	Trade and its importance in	Lecture and	Daily and monthly
		and perception	the Arab world	discussion	exams
443. Cou	ırse Evalu	ation			
Distributin	g the score	out if 100 acco	rding to the tasks assign	ned to the stud	dent such as daily
preparation	n, daily oral	l, monthly, or wri	tten exams, reports,etc	· ·	
444. Lea	rning and	Teaching Resor	urces		
Required te	xtbooks ( cu	rricular books, if	any)		
Main refere	nces (source	e)			
Recommend	ded books	and references (	scientific		
journals, rep	ports)				
Electronic r	eferences, w	vebsites.			

445. Co	ourse Name:		
south america			
	Course Code:		
440. 00	arse dode.		
447. Se	mester / Year:		
Semester 2/2	023-2024		
448. De	escription Preparation Date:		
3/2/2024			
449. Av	vailable Attendance Forms:		
Lectures			
450. Nu	umber of Credit Hours (Total) / Number of Units (Total)		
45 hours	s/45 credits		
451. Co	451. Course administrator's name (mention all, if more than one name)		
Name: K	amal Abdullah Hassan		
Email: <u>K</u>	hmal.abdullah@uoanbar.edu.iq		
452. Co	ourse Objectives		
Course Objectives	8 8 1		
	Geological situation of the continent		
	Characteristics of the topographic situation - the eastern  highlands the matter highlands.		
	<ul> <li>highlands - the western highlands - the central highlands</li> <li>• Climatic characteristics on the continent - temperature</li> </ul>		
characteristics - precipitation characteristics			
453. Teaching and Learning Strategies			
Strategy			
	Learning and teaching strategies and methods dependent in		

implementation of the program in general.	

454	Course	Structure

454. Cours			TT *4		E 1 4
Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
41	2	Understanding and	Location - area - borders	Lecture and	Daily and monthly
the first	3	perception	- geographical extension	discussion	exams
The second	3	Understanding and	Geological situation of	Lecture and	Daily and monthly
The second	)	perception	the continent	discussion	exams
	3	Understanding and	Characteristics of the	Lecture and	Daily and monthly
		perception	topographic situation -	discussion	exams
the third			the eastern highlands -		
			the western highlands -		
			the central highlands		
	3	Understanding and	Climatic characteristics	Lecture and	Daily and monthly
		perception	of the continent -	discussion	exams
the fourth			temperature		
			characteristics -		
			precipitation		
			characteristics		
Fifth	3	Understanding and	Climatic regions on the	Lecture and	Daily and monthly
	_	perception	continent	discussion	exams
	3	Understanding and	Natural vegetation and	Lecture and	Daily and monthly
The sixth		perception	geographical distribution	discussion	exams
	_		of plant regions		
<b></b>	3	Understanding and	Soils on the continent	Lecture and	Daily and monthly
The seventh		perception	and its geographical	discussion	exams
	2	TT. 1 1' 1	regions Water Resources	T 4 1	D.111
The eighth	3	Understanding and	water Resources	Lecture and	Daily and monthly
_	2	perception	Human and economic	discussion Lecture and	exams
	3	Understanding and	characteristics of the	discussion	Daily and monthly
		perception		discussion	exams
The ninth			continent - the origin of		
			the population on the continent - new		
			immigrants		
	3	Understanding and	Economic characteristics	Lecture and	Daily and monthly
	3	perception	of the continent's	discussion	exams
The tenth		Perception	population - agricultural	21004001011	
			activity - agricultural		
		l	acarriy agricultural		

				the continent		
				geographical		
			GID CITO CITI	on - livestock		
			production			
	3	Understanding and		nical distribution	Lecture and	Daily and monthly
eleventh		perception	O	livestock on the	discussion	exams
				continent		
Twelfth	3	Understanding and		neral wealth and	Lecture and	Daily and monthly
1 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		perception		ndustrial activity	discussion	exams
Thirteenth	3	Understanding and		Transport on the	Lecture and	Daily and monthly
111110011111		perception		continent	discussion	exams
fourteenth	3	Understanding and	_	al study of some	Lecture and	Daily and monthly
10010001101		perception		of the continent	discussion	exams
Fifteenth	3	Understanding and	Republic	of Brazil	Lecture and	Daily and monthly
		perception			discussion	exams
455. Cou	ırse Evalua	ation				
Distributing	g the score	out if 100 accord	ing to th	ie tasks assigr	ned to the stu	dent such as daily
1	_	, monthly, or writte	_	•		
•	•	Teaching Resour		, ,		
Required textbooks ( curricular books, if any)			y)			
Main references (source)						
Recommended books and references (scientific						
journals, reports)						
Electronic references, websites.						

457. Co	urse Name:
Seas and ocean	ns
458. Co	urse Code:
459. Sei	mester / Year:
Semester 2/20	023-2024
460. De	scription Preparation Date:
10/2/2024	
461. Av	railable Attendance Forms:
Lectures	
462. Nu	mber of Credit Hours (Total) / Number of Units (Total)
45 hours	s/45 credits
463. Co	ourse administrator's name (mention all, if more than one name)
Name: Qa	asim Ahmed Raml
Email: <u>ka</u>	asemraml@uoanbar.edu.iq
	ourse Objectives
<b>Course Objectives</b>	An introduction to marine and ocean science and its  falls of marialisation.
	fields of specialization  • The emergence of sea and ocean basins and their
	continued formation
	Geographic distribution of the world oceans
	aching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

466.Cours	se Structur	re			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Introduction to marine and ocean science and its fields of expertise	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	The emergence of sea and ocean basins and their continued formation	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Geographic distribution of the world oceans	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Basis of classification of seas	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	General characteristics of seas and oceans	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	General features of climate conditions over seas and oceans	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Surrounding climatic regions	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Waves and their types	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Tides	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Marine and ocean currents	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Geographic distribution of ocean currents	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Phenomena above the shallow bottom	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Phenomena above the deep bottom	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Geomorphological processes formed on the	Lecture and discussion	Daily and monthly exams

and oceans

Distributing the score out if 100 according to the tasks assigned to the student such as daily

Understanding and

preparation, daily oral, monthly, or written exams, reports,...etc.

perception

Fifteenth

467. Course Evaluation

coasts

Lecture and

discussion

Daily and monthly

exams

The importance of seas

468. Learning and Teaching Resources	
Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

	Course Name:		
Planning and d	evelopment		
470. Co	urse Code:		
471. Sea	471. Semester / Year:		
Semester 2/20	)23-2024		
472. De	scription Preparation Date:		
3/2/2024			
473. Av	ailable Attendance Forms:		
Lectures			
474. Nu	mber of Credit Hours (Total) / Number of Units (Total)		
45 hours	e/45 credits		
475. Co	75. Course administrator's name (mention all, if more than one name)		
Name: May God protect you, Jabbar Matar			
Name: M	ay God protect you, Jabbar Matar		
	ay God protect you, Jabbar Matar lw.amana jabbar@uoanbar.edu.iq		
Email: <u>ec</u>	lw.amana jabbar@uoanbar.edu.iq		
Email: <u>ec</u>	lw.amana jabbar@uoanbar.edu.iq urse Objectives		
Email: <u>ec</u>	urse Objectives  • • Planning concept		
Email: <u>ec</u>	urse Objectives  • • Planning concept • • The importance of planning		
Email: ec	urse Objectives  • Planning concept • The importance of planning • Planning components and elements		
Email: ecc  476. Co  Course Objectives  477. Te	urse Objectives  • • Planning concept • • The importance of planning		
Email: ec	urse Objectives		
Email: ecc  476. Co  Course Objectives  477. Te	urse Objectives		
Email: ecc  476. Co  Course Objectives  477. Te	urse Objectives		

478. Course Structure					
Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
the first	3	Understanding and	Planning concept	Lecture and	Daily and monthly
the first	3	perception		discussion	exams
The second	3	Understanding and	The importance of	Lecture and	Daily and monthly
The second		perception	planning	discussion	exams
the third	3	Understanding and	Planning components and	Lecture and	Daily and monthly
		perception	elements	discussion	exams
	3	Understanding and	Considerations to be	Lecture and	Daily and monthly
the fourth		perception	taken into account when	discussion	exams
	2	II. danston din a an d	developing the plan	I antonia and	Dailer and manufaler
Fifth	3	Understanding and perception	Stages of preparing the plan	Lecture and discussion	Daily and monthly exams
	3	Understanding and	Varieties and types of	Lecture and	Daily and monthly
The sixth	3	perception	planning	discussion	exams
TT1 .1	3	Understanding and	Urban planning	Lecture and	Daily and monthly
The seventh	3	perception	, , , , , , , , , , , , , , , , , , ,	discussion	exams
The eighth	3	Understanding and	Urban planning	Lecture and	Daily and monthly
The eighth		perception		discussion	exams
	3	Understanding and	The concept of	Lecture and	Daily and monthly
The ninth		perception	development and its	discussion	exams
			types		
The tenth	3	Understanding and	Natural development	Lecture and	Daily and monthly
		perception	H D 1	discussion	exams
eleventh	3	Understanding and	Human Development	Lecture and discussion	Daily and monthly
	2	perception Understanding and	Comprehensive	Lecture and	exams Daily and monthly
Twelfth	3	perception	development	discussion	exams
	3	Understanding and	sustainable development	Lecture and	Daily and monthly
Thirteenth	3	perception	susumuote de veropment	discussion	exams
	3	Understanding and	Social development	Lecture and	Daily and monthly
fourteenth	3	perception	F	discussion	exams
Eifteent!	3	Understanding and	Urban development	Lecture and	Daily and monthly
Fifteenth	5	perception	•	discussion	exams

Distributing the score out if 100 according to the tasks assigned to the student such as daily				
preparation, daily oral, monthly, or written exan	preparation, daily oral, monthly, or written exams, reports,etc.			
480. Learning and Teaching Resources				
Required textbooks ( curricular books, if any)				
Main references (source)				
Recommended books and references (scientific				
journals, reports)				
Electronic references, websites.				

Energy geography				
482. Course Code:				
483. Semester / Year:	Semester / Year:			
Semester 1/2023-2024				
484. Description Preparation Date:				
17/9/2023				
485. Available Attendance Forms:				
Lectures				
486. Number of Credit Hours (Total) / Number of Units (Total)				
45 hours/45 credits				
487. Course administrator's name (mention all, if more than one	e name)			
Name: MD: Salah Adnan Majoul Shalal				
Email: <u>salah.aaa@uoanber.edu.iq</u>				
488. Course Objectives				
Course Objectives  • 1- Introducing students to the nature of traditional	al energy			
<ul> <li>and its types</li> <li>• 2- Explain the importance of traditional energy</li> </ul>				
• 3 - Development of energy use				
• 4- The relationship of ene				
489. Teaching and Learning Strategies				
Strategy				

Learning and teaching strategies and methods dependent in implementation of the program in general.

#### 490. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	First: the concept of energy	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Secondly, the importance of energy	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Evolution of energy use	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Types of energy	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Forms and sources of energy	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Traditional fossil energy sources	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Coal	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Petroleum ((oil definition))	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	The oil industry and its role in the Iraqi economy	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Iraqi oil reserves and the international market	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	The relationship of the oil industry with the state's general budgets	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Natural gas	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Nuclear energy: uranium	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	The relationship of energy to sustainable development	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Energy and dimensions of sustainable developm	Lecture and discussion	Daily and monthly exams

#### 491. Course Evaluation

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

#### 492. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	

493. Co	urse Name:
Geomorphology	y
494. Co	urse Code:
495. Se	mester / Year:
Semester 2/20	023-2024
496. De	escription Preparation Date:
5/2/2024	
497. Av	vailable Attendance Forms:
Lectures	
498. Nu	umber of Credit Hours (Total) / Number of Units (Total)
45 hours	s/45 credits
499. Co	ourse administrator's name (mention all, if more than one name)
Name: M	Iuhammad Musa Hammadi
Email: <u>m</u>	ohammad.mussa@uoanbar.edu.iq
500. Co	ourse Objectives
Course Objectives	<ul> <li>Definition of geomorphology, its development, its field of work, and its relationship to other sciences.</li> <li>Geomorphological factors and processes.</li> <li>The time factor in geomorphological processes (geological time).</li> </ul>
501. Te	aching and Learning Strategies
Strategy	

Learning and teaching strategies and methods dependent in implementation of the program in general.

50	12	Cours	e Str	netm	<b>~</b>

502. Cours		1	** **		
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
			To 01 111 0	<b>T</b> . 1	
the first	3	Understanding and perception	Definition of geomorphology, its development, its field of work, and its relationship to other sciences.	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Geomorphological factors and processes.	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The time factor in geomorphological processes (geological time).	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Basic ideas in directing geomorphological processes.	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	The shape of the Earth, the construction of the Earth, and his general idea of the Earth in general.	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Earth's topography.	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	The solar system.	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Earthquakes, how they occur and their types.	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Volcanoes: types of volcanic materials, forms of volcanoes.	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Geographic distribution of volcanoes, effects of volcanoes.	Lecture and discussion	Daily and monthly exams

eleventh	3	Understanding and perception	Rocks, their structures, origins and types.	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Igneous rocks, sedimentary rocks, metamorphic rocks.	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Earth's crust movements.	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Geomorphological sea action.	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Marine erosion and its impact on shaping coastal geomorphological phenomena.	Lecture and discussion	Daily and monthly exams

#### 503. Course Evaluation

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

504. Learning and Teaching Resources	
Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	





505.	Course Name:				
agricultura	ıl				
506.	Course Code:				
507.	Semester / Year:				
Semester 2	2/ 2023-2024				
508.	Description Preparation Date:				
12/2/2024					
509.	Available Attendance Forms:				
Lecti	ures				
510.	Number of Credit Hours (Total) / Number of Units (Total)				
45 h	ours/45 credits				
511.	Course administrator's name (mention all, if more than one name)				
	e: Kamal Saleh Kazkouz Majbas				
	il: alani.kamal.5@uoanbar.edu.iq				
512.	Course Objectives				
Course Object					
	The relationship of agricultural geography to the branches of geography				
	• Study curricula in agricultural geography				
513. Teaching and Learning Strategies					
Strategy					
	Learning and teaching strategies and methods dependent in				
implementation of the program in general.					

514.Cours	se Structur	·e			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept of agricultural geography - the first agricultural centers - the relationship of agricultural geography to the branches of geography 1- Natural geography 2- Human geography and its branches -	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The relationship of agricultural geography with other sciences 1- The relationship with biology 2- The relationship with engineering, mathematics and statistics 3- The relationship with the sciences of physics and chemistry	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Study curricula in agricultural geography: 1- The regional curriculum - 2- The crop curriculum	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	The importance of agricultural geography	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Geographic factors affecting agricultural production - Natural	Lecture and discussion	Daily and monthly exams

_	<u> </u>	1	factors 1 Cface 2		1
			factors 1- Surface 2- Climate 3- Soil / Human	,	
			factors 1- Social factors		
			2- Economic factors 3-		
			Political factors 4-		
			Biological factors		
	2	Understanding and	Patterns of agricultur	ral Lecture and	Daily and monthly
	3	perception	production - the conce		exams
		perception	of pattern - soci	1	Caills
			characteristics at		
			agricultural ownership		
The eighth			sections of agricultur		
The eightif			patterns 1- shifting		
			cultivation 2- se		
			sufficiency agriculture		
			large-scale agriculture		
			mixed agricultu		
TD1	3	Understanding and		Lecture and	Daily and monthly
The ninth		perception		discussion	exams
	3	Understanding and	The relationship	of Lecture and	Daily and monthly
Tl 4 41-		perception	agricultural yie		exams
The tenth			production	to	
			geographical facto	rs	
	3	Understanding and	Classification	of Lecture and	Daily and monthly
eleventh		perception	agricultural production	ı - discussion	exams
			plant - anima	1 -	
Twelfth	3	Understanding and	Basics of pla	nt Lecture and	Daily and monthly
1 welltii		perception	production classification		exams
	3	Understanding and	Agricultural crops		Daily and monthly
Thirteenth		perception	importance		exams
			geographical distribution		
fourteenth	3	Understanding and	Livestock - cows - shee		Daily and monthly
- /		perception	- poultry -	discussion	exams
	3	Understanding and	Patterns of agricultur		Daily and monthly
		perception	production - the conce		exams
			of pattern - soci		
			characteristics an		
T. C 1			agricultural ownership		
Fifteenth			sections of agricultur		
			patterns 1- shifting		
			cultivation 2- se		
			sufficiency agriculture		
			large-scale agriculture		
<b>515 3</b>			mixed agricultu	re	
	urse Evalu				, , , , ,
			ing to the tasks ass		ident such as dail
preparatio	n, daily ora	l, monthly, or writt	en exams, reports,	etc.	
516. Lea	rning and	<b>Teaching Resour</b>	ces		
Required te	xtbooks (cu	ırricular books, if an	y)		
1	`	,	<i>3</i> /		

## Required textbooks (curricular books, if any) Main references (source) Recommended books and references (scientific journals, reports...) Electronic references, websites.

517.	Course Name:					
Geography	of health					
518.	Course Code:					
519.	Semester / Year:					
Semester 2,	/ 2023-2024					
520.	Description Preparation Date:					
3/2/2024						
521.	Available Attendance Forms:					
Lectu	res					
522.	Number of Credit Hours (Total) / Number of Units (Total)					
45 ho	urs/45 credits					
523.	Course administrator's name (mention all, if more than one name)					
Name	: Hoda Hussein Ali					
Email	:: <u>huda.ali@uoanbar.edu.iq</u>					
524.	Course Objectives					
Course Objecti						
	importance  • Definition of geography					
	• The relationship of geography to health					
	Definition of health geography					
525.	Teaching and Learning Strategies					
Strategy						
Learning and teaching strategies and methods dependent						
	implementation of the program in general.					

	se Structu		T		1
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Definition of the geography and geography of health and its importance	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Definition of geography	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The relationship of geography to health	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Definition of health geography	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	The importance of health geography	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Definition of health and classification of diseases	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Definition of health	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Public health - history and definition	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Classification of diseases	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Health technology and global health disparities	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Health technology	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Health conditions vary globally	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Sciences that study human health (meteorology and meteorology - applied climate - medical climatology - environmental science - agricultural sciences).	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Introduction to ecology	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding	Environmental problems and the	Lecture and	Daily and monthly

		and perception	balance of n	ature	discussion	exams		
527. Cou	527. Course Evaluation							
	Distributing the score out if 100 according to the tasks assigned to the student such as daily							
preparatio	n, daily or	al, monthly, or w	ritten exan	is, reports,etc.				
528. Lea	rning and	d Teaching Rese	ources					
Required te	xtbooks (	curricular books, i	f any)					
Main refere	ences (sour	ce)						
Recommended books and references (scientific								
journals, reports)								
Electronic r	references,	websites.						

529. Co	urse Name:
Human geograp	bhy of Iraq
530. Co	urse Code:
531. Sei	mester / Year:
Semester 2/20	023-2024
532. De	scription Preparation Date:
6/2/2024	
533. Av	railable Attendance Forms:
Lectures	
534. Nu	imber of Credit Hours (Total) / Number of Units (Total)
45 hours	s/45 credits
535. Co	ourse administrator's name (mention all, if more than one name)
Name: A	hmed Hilal Hammoud
Email: <u>al</u>	<u>ımed.hellal@uoanbar.edu.iq</u>
	ourse Objectives
<b>Course Objectives</b>	• Location, area, and its importance
	• The population in Iraq, its number, distribution, and growth rates
	Agricultural activity
	Factors affecting agricultural activity
	aching and Learning Strategies
Strategy	

Learning and teaching strategies and methods dependent in implementation of the program in general.

#### 538. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Location and space, their importance	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	The population in Iraq, number, distribution and growth rates	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Agricultural activity	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Factors affecting agricultural activity	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Field crops and horticulture in Iraq	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Livestock and the factors affecting it	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Industrial activity and the factors affecting it	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Geographical distribution of industries in Iraq	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Types of mineral ores according to their importance	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Iraqi oil fields and methods of land and sea transportation	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Commercial activity in Iraq	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Foreign and internal trade and the factors affecting them	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Transport in Iraq and the factors affecting it	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Classifications of transportation methods in	Lecture and discussion	Daily and monthly exams

			Iraq	according to their		
				importance		
Fifteenth	3	Understanding and perception	Tourisn	n in Iraq	Lecture and discussion	Daily and monthly exams
539. Cou	ırse Evalu	ation				
Distributin	g the score	out if 100 accordi	ing to t	he tasks assign	ned to the stud	dent such as daily
preparation, daily oral, monthly, or written exams, reports,etc.						
540. Learning and Teaching Resources						
Required textbooks ( curricular books, if any)			y)			
Main references (source)						
Recommended books and references (scientific						
journals, rej	ports)					
Electronic references, websites.						

541. Cou	ırse Name:				
climatology					
	ırse Code:				
543. Sem	nester / Year:				
Semester 2/20	23-2024				
544. Des	cription Preparation Date:				
8/2/2024					
545. Ava	nilable Attendance Forms:				
Lectures					
546. Nur	mber of Credit Hours (Total) / Number of Units (Total)				
45 hours	/45 credits				
	urse administrator's name (mention all, if more than one name)				
Name: Saa	adoun Musharraf Hussein				
Email: <u>sac</u>	doon.mashreef@uoanbar.edu.iq				
Name: Lo	Name: Louay Maher Hammad				
Email: <u>luai.hammad@uoanbar.edu.iq</u>					
548. Cou	arse Objectives				
Course Objectives	Definition of climate				
	Its origin and development				
	• The origin and development of climate				

- Development of applied climatology
- Recent trends in climate science

#### 549. Teaching and Learning Strategies

#### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

#### 550. Course Structure

Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
the first	3	Understanding and perception	The concept of climate science and the direction of its study	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Definition of climate, its origin and development	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Climate origin and development	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	The development of climatology	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Recent trends in climatology	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	The importance of studying climate	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Climatological information measuring devices	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Climatic stations and their types	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Monitoring devices in the upper atmosphere	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Solar radiation	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	the heat	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Pressure and wind	Lecture and discussion	Daily and monthly exams

Thirteenth	3	Understanding and perception	Statistical methods	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Evapotranspiration and dehydration	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Water budget	Lecture and discussion	Daily and monthly exams
551. Course Evaluation					
Distributing the score out if 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,etc.					
552. Learning and Teaching Resources					
Required textbooks ( curricular books, if any)					
Main references (source)					

Recommended books and references (scientific

journals, reports...)
Electronic references, websites.

553. Cour	rse Name:				
Application proj	Application project				
554. Cour	rse Code:				
555. Sem	ester / Year:				
Semester 2/202	23-2024				
556. Desc	cription Preparation Date:				
3/2/2024					
557. Avai	Available Attendance Forms:				
Lectures	Lectures				
558. Num	Number of Credit Hours (Total) / Number of Units (Total)				
45 hours/	45 credits				
559. Cou	rse administrator's name (mention all, if more than one name)				
Name: Thaer Khairallah Osman					
Email: thaar.asman@uoanbar.edu.iq					
560. Cour	rse Objectives				
Course Objectives	Applied project concept				
	Practical methods for the applied project				
	• The relationship of the applied project to other sciences				

#### 561. Teaching and Learning Strategies

#### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

#### 562. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	GIS Jobs	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	First interface: Arc Catalog	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Create shape file	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Convert icons to shape files	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Second interface: Arc Map	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Third interface: Arc Toolbox	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Dockable toolbar	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	How to show labels	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Georeference (return)	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Editing on data	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Editing tools	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Some important tools in drawing	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and	Advanced editing	Lecture and	Daily and monthly

		perception		discussion	exams
fourteenth	3	Understanding and	Some commands related	Lecture and	Daily and monthly
Tourteentii	ð	perception	to modify task	discussion	exams
Fifteenth	3	Understanding and	Classification (coding) in	Lecture and	Daily and monthly
Pinteentii		perception	Arc GIS	discussion	exams
563. Cot	ırse Evalua	ation			
Distributin	g the score	out if 100 accord	ing to the tasks assign	ned to the stu	dent such as daily
preparation, daily oral, monthly, or written exam			en exams, reports,etc	·	
564. Lea	564. Learning and Teaching Resources				
Required textbooks ( curricular books, if any)			y)		
Main references (source)					
Recommended books and references (scientific			entific		_
journals, reports)					

Electronic references, websites.

Email: <a href="mailto:salah.aaa@uoanber.edu.iq">salah.aaa@uoanber.edu.iq</a>
Name: Ahmed Hilal Hammoud

Email: ahmed.hellal@uoanbar.edu.iq

	1
565.	Course Name:
Human fie	eld geography
566.	Course Code:
567.	Semester / Year:
Semester	2/2023-2024
568.	Description Preparation Date:
5/2/2024	
569.	Available Attendance Forms:
Lect	tures
570.	Number of Credit Hours (Total) / Number of Units (Total)
45 h	nours/45 credits
571.	Course administrator's name (mention all, if more than one name)
Nan	ne: Kamal Saleh Kazkouz Majbas
Ema	Ail: alani.kamal.5@uoanbar.edu.iq
Nan	ne: MD: Salah Adnan Majoul Shalal

572. Course	Objectives
<b>Course Objectives</b>	• The concept of field study
	<ul> <li>Field study methods</li> </ul>
	Field study requirements

#### 573. Teaching and Learning Strategies

Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

#### 574. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept of field study	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Field study requirements	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	the reasons	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	the problems	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Field visits	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Duties	Lecture and discussion	Daily and monthly exams

Fifteenth	3	Understanding and	Duties	Lecture and	Daily and monthly
THEOTHER		perception		discussion	exams
575. Cou	ırse Evalu	ation			
Distributin	g the score	out if 100 accord	ing to the tasks assigi	ned to the stud	dent such as daily
preparatio	n, daily oral	, monthly, or writte	en exams, reports,etc	2.	
576. Lea	576. Learning and Teaching Resources				
Required textbooks ( curricular books, if any)					
Main references (source)					
Recommended books and references (scientific			entific		
journals, rep	ports)				
Electronic r	references, w	ebsites.			

Industrial location theories  578. Course Code:  579. Semester / Year: Semester 2/ 2023-2024  580. Description Preparation Date: 7/2/2024  581. Available Attendance Forms: Lectures  582. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  583. Course administrator's name (mention all, if more than one name) Name: Yassin Hamid Bida Email: _almehemdi75@uoanbar.edu.iq	577. Course	Name:
579. Semester / Year: Semester 2/ 2023-2024 580. Description Preparation Date: 7/2/2024 581. Available Attendance Forms: Lectures 582. Number of Credit Hours (Total) / Number of Units (Total) 45 hours/45 credits  583. Course administrator's name (mention all, if more than one name) Name: Yassin Hamid Bida	Industrial location	theories
Semester 2/2023-2024  580. Description Preparation Date:  7/2/2024  581. Available Attendance Forms:  Lectures  582. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  583. Course administrator's name (mention all, if more than one name)  Name: Yassin Hamid Bida	578. Course	Code:
Semester 2/2023-2024  580. Description Preparation Date:  7/2/2024  581. Available Attendance Forms:  Lectures  582. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  583. Course administrator's name (mention all, if more than one name)  Name: Yassin Hamid Bida		
580. Description Preparation Date:  7/2/2024  581. Available Attendance Forms:  Lectures  582. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  583. Course administrator's name (mention all, if more than one name)  Name: Yassin Hamid Bida	579. Semest	er / Year:
7/2/2024 581. Available Attendance Forms: Lectures 582. Number of Credit Hours (Total) / Number of Units (Total) 45 hours/45 credits  583. Course administrator's name (mention all, if more than one name) Name: Yassin Hamid Bida	Semester 2/2023-2	2024
581. Available Attendance Forms:  Lectures  582. Number of Credit Hours (Total) / Number of Units (Total)  45 hours/45 credits  583. Course administrator's name (mention all, if more than one name)  Name: Yassin Hamid Bida	580. Descrip	otion Preparation Date:
Lectures 582. Number of Credit Hours (Total) / Number of Units (Total) 45 hours/45 credits  583. Course administrator's name (mention all, if more than one name) Name: Yassin Hamid Bida	7/2/2024	
582. Number of Credit Hours (Total) / Number of Units (Total) 45 hours/45 credits  583. Course administrator's name (mention all, if more than one name) Name: Yassin Hamid Bida	581. Availab	ble Attendance Forms:
45 hours/45 credits  583. Course administrator's name (mention all, if more than one name)  Name: Yassin Hamid Bida	Lectures	
583. Course administrator's name (mention all, if more than one name) Name: Yassin Hamid Bida	582. Number	r of Credit Hours (Total) / Number of Units (Total)
Name: Yassin Hamid Bida	45 hours/45	credits
Name: Yassin Hamid Bida		
	583. Course	e administrator's name (mention all, if more than one name)
Email: <u>almehemdi75@uoanbar.edu.iq</u>	Name: Yassin	Hamid Bida
	Email: <u>almel</u>	hemdi75@uoanbar.edu.iq
584. Course Objectives		, ,
Course Objectives  • • The concept and importance of industrial planning	<b>Course Objectives</b>	
<ul> <li>• Industrial site planning standards</li> <li>• Industrial planning within the framework of the</li> </ul>		<u> </u>
philosophy of the socialist economic system		
Industrial planning within the framework of the		

	philosophy	y of the ca	pitalist econom	ic system

#### 585. Teaching and Learning Strategies

#### Strategy

Learning and teaching strategies and methods dependent in implementation of the program in general.

#### 586. Course Structure

	se Structur	1			
Week	Hours	Required	Unit or subject	Learning	Evaluation
		Learning	name	method	method
		Outcomes			
	_	Understanding and	The concept and	Lecture and	Daily and monthly
the first	3	perception	importance of industrial planning	discussion	exams
The second	3	Understanding and	Industrial site planning	Lecture and	Daily and monthly
The second		perception	standards	discussion	exams
	3	Understanding and	Industrial planning	Lecture and	Daily and monthly
		perception	within the framework of	discussion	exams
the third			the philosophy of the		
			socialist economic		
			system		
	3	Understanding and	Industrial planning	Lecture and	Daily and monthly
		perception	within the framework of	discussion	exams
the fourth			the philosophy of the		
			capitalist economic		
			system		
	3	Understanding and	Industrial location	Lecture and	Daily and monthly
		perception	theories / Stages of	discussion	exams
			development of industrial		
			location theories - The		
E:61.			first stage: The location		
Fifth			that achieves the lowest		
			cost of production) Contribution of the		
			German economist		
			(Alfred Weber) -		
			Contribution of Pridol		
	2	Understanding and	Continuation of Fridor	Lecture and	Daily and monthly
The sixth	3	perception		discussion	exams
	3	Understanding and		Lecture and	Daily and monthly
The seventh	3	perception		discussion	exams
		perception	l .	GISCUSSIOII	CAUIIIS

			1			I 5 11 11 11 11 11 11 11 11 11 11 11 11 1
The eighth	3	Understanding and perception		The second stage tion at the market) ribution (Hotlink -	Lecture and discussion	Daily and monthly exams
			Paland	er - Adger Hoover - Uhlen)		
The ninth	3	Understanding and perception		,	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	location maxin	The third stage (the in that achieves the num profits for the duct) contribution	Lecture and discussion	Daily and monthly exams
			(Ox	tt Losh - Cranhat - Mosses)		
eleventh	3	Understanding and perception			Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	that a	urth stage (the site chieves the lowest t to the consumer) ntribution (Walter Izard)	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception			Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Criti	cisms of industrial location theories	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	factors framew	s of localization within the ork of industrial theories	Lecture and discussion	Daily and monthly exams
587. Cou	ırse Evalua	ation				
Distributin	g the score	out if 100 accord	ing to t	he tasks assign	ned to the stu	dent such as daily
	_	, monthly, or writt	_			
588. Lea	rning and	Teaching Resour	ces			
Required te	xtbooks ( cu	rricular books, if an	y)			

Main references (source)

journals, reports...)
Electronic references, websites.

Recommended books and references (scientific



589.	Course Name:
Industrial	location theories
590.	Course Code:
591.	Semester / Year:
Semester 2	2/ 2023-2024
592.	Description Preparation Date:
7/2/2024	
593.	Available Attendance Forms:
Lect	ures
594.	Number of Credit Hours (Total) / Number of Units (Total)
45 h	ours/45 credits
595.	Course administrator's name (mention all, if more than one name)
_	e: Yassin Hamid Bida
Ema	il: <u>almehemdi75@uoanbar.edu.iq</u>
596.	Course Objectives
Course Object	
	<ul> <li>Industrial site planning standards</li> <li>Industrial planning within the framework of the</li> </ul>
	philosophy of the socialist economic system
	Industrial planning within the framework of the
597.	philosophy of the capitalist economic system  Tanching and Learning Strategies
Strategy	Teaching and Learning Strategies
Silategy	Learning and teaching strategies and methods dependent in
	implementation of the program in general.
	implementation of the program in general.

598.Cours	a Structur	20			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept and importance of industrial planning	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Industrial site planning standards	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Industrial planning within the framework of the philosophy of the socialist economic system	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Industrial planning within the framework of the philosophy of the capitalist economic system	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Industrial location theories / Stages of development of industrial location theories - The first stage: The location that achieves the lowest cost of production) Contribution of the German economist (Alfred Weber) - Contribution of Pridol	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	The second stage (location at the market) contribution (Hotlink - Palander - Adger Hoover - Uhlen)	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	,	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	The third stage (the location that achieves the maximum profits for the product) contribution (Oxt Losh - Cranhat -	Lecture and discussion	Daily and monthly exams

Mosses)

eleventh	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	The fourth stage (the site that achieves the lowest cost to the consumer) contribution (Walter Izard)	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Criticisms of industrial location theories	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Analysis of localization factors within the framework of industrial location theories	Lecture and discussion	Daily and monthly exams
599. Cou	urse Evalua	ation			

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

600. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	



601.	Course Name:			
Internation	theories			
602.	Course Code:			
603.	Semester / Year:			
Semester 2	/ 2023-2024			
604.	Description Preparation Date:			
5/2/2024				
605.	Available Attendance Forms:			
Lect				
606.	Number of Credit Hours (Total) / Number of Units (Total)			
45 h	urs/45 credits			
607.	Course administrator's name (mention all, if more than one name)			
	: Ahmed Dawoud Hamid			
_	: Ahmed.daood@ouanbar.edu.ig			
608.	Course Objectives			
Course Objectives  • Political theories and their concepts				
	• •			
400	Biofield theory			
609.	Teaching and Learning Strategies			
Strategy				
	Learning and teaching strategies and methods dependent in			
	implementation of the program in general.			

610.Cour Week	se Structu Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Political theories and their concepts	Lecture and discussion	Daily and monthl
The second	3	Understanding and perception		Lecture and discussion	exams  Daily and monthly exams
the third	3	Understanding and perception	Biofield theory	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Soft powers	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Ground force theory	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Arab-Israeli relations	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	The theory of sea power	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Air power theory	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	New world order	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Single pole system	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	The concept of globalization	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception		Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Creative chaos	Lecture and discussion	Daily and monthly exams
Distributin	•	uation re out if 100 acc	ording to the tasks assign		ident such as daily
612. Lea	arning and	d Teaching Res	ources		
Required to Main refere	,	curricular books, i ce)	f any)		
Recommen	ded books	and references	(scientific		

journals, reports)	
Electronic references, websites.	

613.	Course Name:
Transfer	
614.	Course Code:
615.	Semester / Year:
Semester 1	1/2023-2024
616.	Description Preparation Date:
8/2/2024	
617.	Available Attendance Forms:
Lecti	
618.	Number of Credit Hours (Total) / Number of Units (Total)
45 h	ours/45 credits
619.	Course administrator's name (mention all, if more than one name)
Nam	e: Taha Ahmed Abd Abtan
Emai	il: : alani.kamal.5@uoanbar.edu.iq
620.	Course Objectives
Course Objec	* ************************************
	• Transportation benefits
	• The relationship of transportation to the national economy
	• Effects of transportation
621.	Teaching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

622.Cours	1	_	TT	т	T- 1 .4*
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	First: the concept of energy	Lecture and discussion	Daily and monthly
The second	3	Understanding and perception	Secondly, the importance of energy	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Evolution of energy use	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Types of energy	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Forms and sources of energy	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Traditional fossil energy sources	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Coal	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Petroleum ((oil definition))	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	The oil industry and its role in the Iraqi economy	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Iraqi oil reserves and the international market	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	The relationship of the oil industry with the state's general budgets	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Natural gas	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Nuclear energy: uranium	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	The relationship of energy to sustainable development	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Energy and dimensions of sustainable developm	Lecture and discussion	Daily and monthly exams
	ırse Evalu				
	•		ling to the tasks assigren exams, reports,etc		dent such as daily
		Teaching Resour			
Required te	xtbooks ( cu	ırricular books, if an	y)		
Main refere	ences (source	e)			

625. (	Course Name:
Africa	
626.	Course Code:
627.	Semester / Year:
Semester 2/	2023-2024
628. I	Description Preparation Date:
12/2/2024	
629. A	Available Attendance Forms:
Lectur	es
630. N	Number of Credit Hours (Total) / Number of Units (Total)
45 hou	rs/45 credits
631. (	Course administrator's name (mention all, if more than one name)
	MD: Salah Adnan Majoul Shalal
	salah.aaa@uoanber.edu.iq
632.	Course Objectives
Course Objectives • 1- Africa in history - location, shape, area	
	Geological history - African Rift
	Surface features - river discharge and economic importance
	Climate and climatic regions
633.	Feaching and Learning Strategies
Strategy	
	Learning and teaching strategies and methods dependent in
	implementation of the program in general.

the first  3 Understanding and perception  The second  4 Understanding and perception  The fourth  3 Understanding and perception  The fourth  3 Understanding and perception  The sixth  3 Understanding and perception  The eighth  3 Understanding and perception  The eighth  3 Understanding and perception  The ninth  3 Understanding and perception  The tenth  4 Understanding and perception  The tenth  5 Understanding and perception  The tenth  5 Understanding and perception  The tenth  5 Understanding and perception  The tenth  6 Un	Learning Evaluation	nit or subject	Required	Hours	Week
the first 3 perception African Rift discussion exams    The second	method method	name	Learning Outcomes		
The second between the third and perception between the fourth are found between the			_	3	the first
the third    perception   Rainfall on the continent   Lecture and discussion   exams	nd discussion exams	river discharge and		3	The second
the fourth 3 Understanding and perception 4 Atmospheric pressure and wind-temperature and discussion 4 discussion 4 perception 4 Atmospheric pressure and wind-temperature and wind-temperature and discussion 4 discussion 5 discussion 6 discussion 6 discussion 6 discussion 6 discussion 6 discussion 7 discussion 8 discussion 8 discussion 9 disc	ic Lecture and Daily and monthly	limate and climatic	_	3	the third
Fifth 3 Understanding and perception and wind-temperature and wind-rain discussion exams and wind-rain discussion and perception and the factors of problems exams and the factors affecting their distribution and the factors affecting their distribution and the factors affecting and perception and perception and perception and the factors affecting their distribution and the factors affecting their distribution and the factors affecting and perception and the factors affecting their distribution and the factors affecting their distributio	nt Lecture and Daily and monthly		Understanding and	3	the fourth
The sixth  3 Understanding and perception  The seventh  3 Understanding and perception  The eighth  3 Understanding and perception  The ninth  4 Understanding and perception  The ninth  4 Understanding and perception  The tenth  5 Understanding and perception  The tenth  6 Understanding and perception  The tenth  6 Understanding and perception  The tenth  6 Understanding and perception  The tenth  7 Understanding and perception  Twelfth  8 Understanding and perception  Twelfth  8 Understanding and perception  Twelfth  8 Understanding and perception  Thirteenth  9 Understanding and perception  Thirteenth  10 Understanding and perception  Thirteenth  11 Understanding and perception  Thirteenth  12 Understanding and perception  Thirteenth  13 Understanding and perception  Thirteenth  14 Understanding and perception  Thirteenth  15 Understanding and perception  Thirteenth  16 Understanding and perception  Thirteenth  17 Understanding and perception  Thirteenth  18 Understanding and perception  Thirteenth  19 Understanding and perception  Thirteenth  20 Understanding and perception  Thirteenth  3 Understanding and perception  Thirteenth  4 Understanding and perception  Thirteenth  4 Understanding and perception  Thirteenth  4 Understanding and perception  Thirteenth  5 Understanding and perception  Thirteenth  6 Understanding and perception  Thirteenth  6 Understanding and perception  Thirteenth  6 Understanding and perception  Thirteenth  7 Understanding and perception  Thirteenth  8 Understanding and perception  Thirteenth  9 Understanding and perception  Thirteenth  10 Understanding and perception  Thirteenth  11 Understanding and perception  Thirteenth  12 Understa			Understanding and	3	Fifth
The seventh 3 Understanding and perception 3 Understanding and perception 4 Daily a exams 4 Daily a exams 5 Daily a exams 6 Daily a exams 8 Daily a exams 9 Daily a discussion 1 Daily a discussion 2 Daily a discussion	re Lecture and Daily and monthly	mospheric pressure	Understanding and	3	The sixth
The eighth 3 Understanding and perception 6 Factors - soil problems - epidemics and discussion exams of actors - soil problems - epidemics and discussion exams of actors - soil problems - epidemics and discussion exams of actors - soil problems - epidemics and discussion exams of actors affecting their distribution of and the factors affecting their distribution of and the factors affecting their distribution of actors of	ns Lecture and Daily and monthly			3	The seventh
The ninth perception factors - soil problems - epidemics and diseases  3 Understanding and perception and the factors affecting their distribution eleventh 3 Understanding and perception factors factors discussion exams  Twelfth 3 Understanding and perception factors factors discussion exams  Twelfth 3 Understanding and perception Republic of Kenya fourteenth 1 Understanding and perception fourteenth 1 September 1 September 1 September 2 September 2 September 2 September 3 September 2 September 3 September 3 September 2 September 3 Septembe			_	3	The eighth
The tenth    3	s - discussion exams	ors - soil problems -		3	The ninth
Twelfth  3 Understanding and perception  Thirteenth  3 Understanding and perception  Thirteenth  3 Understanding and perception  4 Republic of Kenya discussion  5 Republic of South Africa discussion  6 Republic of South Africa discussion  6 Republic of Zaire Perception  3 Understanding and perception  4 Republic of Zaire Perception  5 Understanding and perception  6 Republic of Zaire Perception Perception  6 Republic of Zaire Perception Perception Perception Paily a discussion Perception Paily a discussion Perception Percept	on discussion exams	ntinent's population he factors affecting		3	The tenth
Thirteenth  3 Understanding and perception  Fourteenth  3 Understanding and perception  4 Sepublic of South Africa Lecture and discussion  5 Understanding and perception  6 Understanding and perception  6 Understanding and perception  6 Sepublic of South Africa Lecture and discussion  6 Sepublic of Zaire Lecture and discussion				3	eleventh
fourteenth    Solution   Perception   Percep			perception	3	Twelfth
Fifteenth  Solution  Perception  Perception  Geological History - Lecture and discussion  African Rift discussion  Exams  African Rift discussion  African Rift discussion  African Rift discussion  Exams  African Rift discussion  African Rift discussion  Exams	Republic of South Africa   Lecture and   Daily and monthly			3	Thirteenth
perception African Rift discussion exams 635. Course Evaluation				3	fourteenth
	Fifteenth 3 Understanding and Geological History - Lecture and Daily and monthly				
preparation, daily oral, monthly, or written exams, reports,etc.  636. Learning and Teaching Resources			out if 100 accordi monthly, or writte	g the score n, daily oral	Distributing preparatior
Required textbooks ( curricular books, if any)			<u> </u>		
Main references (source)			<u>_</u>		

Recommended books and references (scientific

journals, reports...)
Electronic references, websites.

637. C	ourse Name:
Europe	
638. C	ourse Code:
639. S	emester / Year:
Semester 2/2	2023-2024
640. D	Description Preparation Date:
12/2/2024	
641. A	Available Attendance Forms:
Lecture	es
642. N	Number of Credit Hours (Total) / Number of Units (Total)
45 hou	rs/45 credits
643. C	Course administrator's name (mention all, if more than one name)
Name:	MD: Salah Adnan Majoul Shalal
Email:	salah.aaa@uoanber.edu.iq
	Course Objectives
Course Objective	• Europe and its contemporary history - location, shape, and space
	Geological history
	<ul> <li>• Surface features - rivers and economic importance</li> <li>• Climate and climatic regions</li> </ul>
645. T	Feaching and Learning Strategies
Strategy	The state of the s
	Learning and teaching strategies and methods dependent in implementation of the program in general.

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Europe and its contemporary history - location, form, and space	Lecture and discussion	Daily and monthl exams
The second	3	Understanding and perception	geological history\	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Surface manifestations - river discharge and economic importance	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Climate and climatic regions	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Rainfall on the continent	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Atmospheric pressure and wind-temperature	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Atmospheric pressure and wind - rain	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Climatic regions	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Natural vegetation and plant regions	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Soil and its formation factors - soil problems - epidemics and diseases	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Human races - the continent's population and the factors affecting their distribution	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Human and natural factors	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	France	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Germany	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	United kingdom	Lecture and discussion	Daily and monthly exams

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

# 648. Learning and Teaching Resources Required textbooks (curricular books, if any) Main references (source) Recommended books and references (scientific journals, reports...) Electronic references, websites.



649. Cou	urse Name:			
Geography of h	Geography of health			
650. Cou	urse Code:			
651. Ser	nester / Year:			
Semester 2/20	023-2024			
652. Des	scription Preparation Date:			
14/2/2024				
653. Av	ailable Attendance Forms:			
Lectures				
	mber of Credit Hours (Total) / Number of Units (Total)			
45 hours	/45 credits			
655. Co	urse administrator's name (mention all, if more than one name)			
Name: Ho	oda Hussein Ali			
Email: : <u>h</u>	uda.ali@uoanbar.edu.iq			
656. Co	urse Objectives			
Course Objectives	Defining the geography and geography of health and its			
	importance • • Definition of geography			
	The relationship of geography to health			
	Definition of health geograph			
	aching and Learning Strategies			
Strategy				
	Learning and teaching strategies and methods dependent in			
	implementation of the program in general.			

658.	Course	Structur	e

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	First: the concept of energy	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Secondly, the importance of energy	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Evolution of energy use	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Types of energy	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Forms and sources of energy	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Traditional fossil energy sources	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Coal	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Petroleum ((oil definition))	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	The oil industry and its role in the Iraqi economy	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Iraqi oil reserves and the international market	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	The relationship of the oil industry with the state's general budgets	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Natural gas	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Nuclear energy: uranium	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	The relationship of energy to sustainable development	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Energy and dimensions of sustainable developm	Lecture and discussion	Daily and monthly exams

#### 659. Course Evaluation

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

#### 660. Learning and Teaching Resources

Required textbooks ( curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	
journals, reports)	
Electronic references, websites.	





