

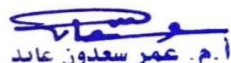
**Republic of Iraq
The ministry of higher
Education & scientific Research**




Academic program description form

University name: University of Anbar
College/Institute: College of Arts
Scientific Department: Department ofGeography
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




Signature: 
Name of Scientific Assistant:
Asst. Prof. Omar Sadoon Ayyed
Date: 7/ 3 / 2024


the signature :
the date: Name of department head:
Yassin Hamid Bida

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 scientifically and professionally -1

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

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

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

Programmatic accreditation .4

nothing

Other external influences .5

nothing

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

.Notes may include whether the course is core or elective *

Program description .7				
Credit hours		Name of the course or course	Course or course code	Year/level
1	2	Principles of weather science		The first
1	2	Foundations of cartography		The first
	2	Geographic thought		The first
	2	Foundations of geology		The first
	2	Regional geography of Australia		The first
	2	Contemporary history of Iraq		The first
	2	Arabic		The first
	2	Principles of computer science		The first
	2	Human rights and democracy		The first
	2	Foundations of geomorphology		The first
	2	Foundations of climate science		The first
	2	Regional geography of Africa		The first
	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	
	<p>A- Knowledge</p> <p>A1- The student will have the ability to know and understand the principles, theories and basics in the field of geographical studies</p> <p>A2- The student will have the ability to understand modern and advanced scientific topics in the disciplines of natural and human .geography</p> <p>A3- The student will be able to understand modern scientific .research methods</p> <p>A4- The student will be able to evaluate and monitor the problems facing society in a manner consistent with the nature of geographical studies</p>
Skills	
	<p>.B1 - Monthly and quarterly written examinations</p> <p>.(B2 - Quick exams (Quizzes</p> <p>.B3- Writing scientific reports</p> <p>B4- Using blackboards</p>
Value	
	Developing students' abilities to share ideas

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

Evaluation methods.10

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

-2 .Permanent tests for students throughout the semester



The teaching staff.11

Faculty members

Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
the permanent	personnel			private	general	
permanent				Agricultural	Human geography	استاذ . كمال صالح كركوز جباس
permanent				Industrial	Human geography	استاذ. ياسين حميد بدع ياسين
permanent				maps	Human geography	استاذ. احمد سلمان حمادي عبطان
permanent				Geographic thought	Human geography	استاذ. كمال عبد الله حسن زيدان
permanent				Water resources	Natural geography	استاذ. قاسم احمد رمل درج

permanent				Agricultural	Human geography	استاذ. طه احمد عبد عبطان
permanent				climate	Natural geography	أستاذ مساعد. طالب احمد عبدالرزاق عاشور
permanent				Political	Human geography	أستاذ مساعد. احمد داود حميد محمود
permanent				climate	Natural geography	أستاذ مساعد. حميد رجب عبدالحكيم عبدالله
permanent				Geomorphology	Natural geography	أستاذ مساعد. محمد موسى حمادي صالح
permanent				Geomorphology	Natural geography	أستاذ مساعد. وليد حنوش حمد عويد
permanent				Population	Human geography	أستاذ مساعد. قيصر عبدالله احمد فرحان
permanent				Agricultural	Human geography	أستاذ مساعد. احمد هلال حمود علي
permanent				Agricultural	Human geography	أستاذ مساعد. آمنه جبار مطر درويش
permanent				Geomorphology	Natural geography	أستاذ مساعد سعدون مشرف حسين جديع
permanent				Energy geography	Human geography	أستاذ مساعد. صلاح عدنان مجول شلال
permanent				Geography of cities	Human geography	أستاذ مساعد. هدى حسين علي سعيد
permanent				Geomorphology	Natural geography	مدرس. ليث سعدي عفتان مشعان
permanent				Computer Science	Computer Science	مدرس مساعد. ثائر خير الله عصمان حسين
permanent				maps	Human geography	مدرس. خالد ابراهيم حسين عبيد
permanent				Geomorphology	Natural geography	مدرس مساعد. زياد فريخ مطر عباس
permanent				Water resources	Natural geography	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

Program skills chart

Learning outcomes required from the programme														Essential or optional	Course Name	Course Code	Year/level
القيم				Skills				Knowledge									
4C	3C	2C	1C	4B	3B	2B	1B	4A	3A	A2	1A						
	√	√	√	√	√	√	√	√	√	√	√	Basic	Principles of weather science		The first		
	√	√	√	√	√	√	√	√	√	√	√	Basic	Foundations of cartography				
	√	√	√	√	√	√	√	√	√	√	√	Basic	Geographic thought		The first		
	√	√	√	√	√	√	√	√	√	√	√	Basic	Foundations of geology				
	√	√	√	√	√	√	√	√	√	√	√	Basic	Regional geography of Australia		The first		
	√	√	√	√	√	√	√	√	√	√	√	Basic	Contemporary history of Iraq				
	√	√	√	√	√	√	√	√	√	√	√	Basic	Arabic		The first		

	√	√	√	√	√	√	√	√	√	√	√	to choose	Principles of computer science		The first
	√	√	√	√	√	√	√	√	√	√	√	Basic	Human rights and democracy		The first
	√	√	√	√	√	√	√	√	√	√	√	Basic	Foundations of geomorphology		The first
	√	√	√	√	√	√	√	√	√	√	√	Basic	Foundations of climate science		The first
	√	√	√	√	√	√	√	√	√	√	√	Basic	Regional geography of Africa		The first
	√	√	√	√	√	√	√	√	√	√	√	Basic	Public space		The first
	√	√	√	√	√	√	√	√	√	√	√	Basic	Geographic statistics		The first
	√	√	√	√	√	√	√	√	√	√	√	Basic	English language		The first
	√	√	√	√	√	√	√	√	√	√	√	Basic	Remote Sensing		The first
	√	√	√	√	√	√	√	√	√	√	√	to choose	Geography of Asia		The first

	√	√	√	√	√	√	√	√	√	√	√	Basic	Applied geomorphology		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Thematic maps		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Soil geography		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Quantitative methods		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Social geography		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	the computer		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Geography of Europe		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Applied climate		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Remote Sensing		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Geography of the Arab world		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Agriculture geography		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	C-Transportation		the second

	√	√	√	√	√	√	√	√	√	√	√	Basic	Geography of natural resources		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	Arabic		the second
	√	√	√	√	√	√	√	√	√	√	√	Basic	English		Third
	√	√	√	√	√	√	√	√	√	√	√	Basic	The crimes of the Baath regime		Third
	√	√	√	√	√	√	√	√	√	√	√	Basic	Geography of North America		Third
	√	√	√	√	√	√	√	√	√	√	√	Basic	Local climate		Third
	√	√	√	√	√	√	√	√	√	√	√	Basic	Geographic information systems		Third
	√	√	√	√	√	√	√	√	√	√	√	Basic	Energy geography		Third
	√	√	√	√	√	√	√	√	√	√	√	Basic	Geography of cities		Third
	√	√	√	√	√	√	√	√	√	√	√	Basic	Life geography		Third
	√	√	√	√	√	√	√	√	√	√	√	Basic	English language		Third

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

	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Geomatics		Fourth
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Dry regions		Fourth
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Political geography		Fourth
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	International theories		Fourth
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Geography of seas and oceans		Fourth
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	English language		Fourth
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	Graduation Project		Fourth
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Basic	the computer		Fourth

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

Course Description

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	
Course Objectives	<ul style="list-style-type: none"> • • Conceptual framework of the environment and environmental problems: the concept of the environment, types of environment. • • The concept of the ecosystem, the concept of the environmental problem, and the classification of environmental problems. • • Pollution, its stages of development and ways to combat it.
9. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
10. 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 pollution	Lecture and discussion	Daily and monthly exams
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	Lecture and discussion	Daily and monthly exams

			emissions, greenhouse gases and their effects.		
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

11.Course Evaluation

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

12.Learning and Teaching Resources

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



Course Description

13.Course Name:	
GIS	
14.Course Code:	
15.Semester / Year:	
Semester 1/ 2023-2024	
16.Description Preparation Date:	
15/9/2023	
17.Available Attendance Forms:	
Lectures	
18.Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
19. Course administrator's name (mention all, if more than one name)	
Name: Khaled Ibrahim Hussein Email: kahusseen@uoanbar.edu.iq	
20.Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • The concept of Geographic Information Systems (G.I.S). • • Historical stages of development • • The sixties and seventies • • The eighties and nineties
21.Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

22. Course Structure					
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 monthly exams
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

23. Course Evaluation

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

24. Learning and Teaching Resources

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



Course Description

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	<ul style="list-style-type: none"> • 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

33. Teaching and Learning Strategies

Strategy

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

34. 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 development	Lecture and discussion	Daily and monthly exams

35.Course Evaluation

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

36.Learning and Teaching Resources

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



Course Description

37.Course Name:	
Quantitative methods	
38.Course Code:	
39.Semester / Year:	
Semester 1/ 2023-2024	
40.Description Preparation Date:	
11/9/2023	
41.Available Attendance Forms:	
Lectures	
42.Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
43. Course administrator's name (mention all, if more than one name)	
Name: Ziad Freih Matar	
Email: salah.aaa@uoanber.edu.iq	
44.Course Objectives	
Course Objectives	<ul style="list-style-type: none">• Quantitative methods, their concept, patterns, 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?

45. Teaching and Learning Strategies

Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
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46. Course Structure

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

Thirteenth	3	Understanding and perception	Statistical tables	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Paired frequency tables	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Graphical display of data	Lecture and discussion	Daily and monthly exams

47.Course Evaluation

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

48.Learning and Teaching Resources

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



Course Description

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	

Course Objectives	<ul style="list-style-type: none"> • The continent of Australia - location and area - discovering the continent • Natural conditions - geological structure • The climate in the continent of Australia • Climatic regions
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57. Teaching and Learning Strategies

Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
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58. 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
59.Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,...etc.					
60.Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (source)					
Recommended books and references (scientific journals, reports...)					
Electronic references, websites.					



Course Description

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: alani.kamal.5@uoanbar.edu.iq
68.Course Objectives

Course Objectives	<ul style="list-style-type: none"> • • 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
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69. Teaching and Learning Strategies

Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
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70. 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
71.Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,...etc.					
72.Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (source)					
Recommended books and references (scientific journals, reports...)					
Electronic references, websites.					

Course Description

73.Course Name:	
Dry regions	
74.Course Code:	
75.Semester / Year:	
Semester 1/ 2023-2024	
76.Description Preparation Date:	
12/9/2023	
77.Available Attendance Forms:	
Lectures	
78.Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
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	<ul style="list-style-type: none"> • 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

81. Teaching and Learning Strategies

Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
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82. 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 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 perception	The political importance of the dry region	Lecture and discussion	Daily and monthly exams
83.Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,...etc.					
84.Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (source)					
Recommended books and references (scientific journals, reports...)					
Electronic references, websites.					



Course Description

85.Course Name:	
Soil geography	
86.Course Code:	
87.Semester / Year:	
Semester 1/ 2023-2024	
88.Description Preparation Date:	
13/9/2023	
89.Available Attendance Forms:	
Lectures	
90.Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
91. Course administrator's name (mention all, if more than one name)	
Name: Qasim Ahmed Raml	
Email: : kasemraml@uoanbar.edu.iq	
92.Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • 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.

94. Course Structure

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

The ninth	3	Understanding and perception	Soil life characteristics and factors affecting its growth	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Foundations of soil survey and classification and its objectives	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Geographical distribution of zonal soils	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Geographical distribution of non-zonal soils and overlapping soils	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Soil problems (salinity - erosion - pollution - low productivity)	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Soil maintenance methods	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Soils in Iraq (problems - methods of maintenance)	Lecture and discussion	Daily and monthly exams

95. Course Evaluation

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

96. Learning and Teaching Resources

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

Course Description

97. Course Name:	
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	
Course Objectives	<ul style="list-style-type: none"> • • The concept of geomatics • • Research methods in geomatics • • The relationship of geomatics to other sciences

105. Teaching and Learning Strategies

Strategy

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

106. Course Structure

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 perception	Statistics and data analysis	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Spatial analysis of data	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	New Geomatics	Lecture and discussion	Daily and monthly exams

107. Course Evaluation

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

108. Learning and Teaching Resources

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

Course Description

109. Course Name:	Calculators
110. Course Code:	
111. Semester / Year:	Semester 1/ 2023-2024
112. Description Preparation Date:	12/9/2023
113. Available Attendance Forms:	Lectures
114. Number of Credit Hours (Total) / Number of Units (Total)	45 hours/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	<ul style="list-style-type: none"> • Definition of operating system

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

117. Teaching and Learning Strategies

Strategy

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

118. Course Structure

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	Performing operations on windows	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	desktop backgrounds	Lecture and discussion	Daily and monthly exams

119. Course Evaluation

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

120. Learning and Teaching Resources

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

Course Description

121. Course Name:	Life geography
122. Course Code:	
123. Semester / Year:	Semester 1/ 2023-2024
124. Description Preparation Date:	11/9/2023
125. Available Attendance Forms:	Lectures
126. Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits
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	<ul style="list-style-type: none"> • 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:
1- 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

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

131. Course Evaluation

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

132. Learning and Teaching Resources

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

Course Description

133.	Course Name:
Thematic maps	
134.	Course Code:
135.	Semester / Year:
Semester 1/ 2023-2024	
136.	Description Preparation Date:
14/9/2023	
137.	Available Attendance Forms:
Lectures	
138.	Number of Credit Hours (Total) / Number of Units (Total)
45 hours/45 credits	
139.	Course administrator's name (mention all, if more than one name)
Name: Ahmed Salman Hammadi	
Email: ahmed.salman@uoanbar.edu.iq	
140.	Course Objectives
Course Objectives	<ul style="list-style-type: none"> • • The concept of cartography • • The concept of thematic map and maps • • Map design • • Visual variables and cartographic communication

141. Teaching and Learning Strategies

Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
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142. Course Structure

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

143. Course Evaluation

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

144. Learning and Teaching Resources

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

Course Description

145. Course Name:	Maps
146. Course Code:	
147. Semester / Year:	Semester 1/ 2023-2024
148. Description Preparation Date:	14/9/2023
149. Available Attendance Forms:	Lectures
150. Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits
151. Course administrator's name (mention all, if more than one name)	Name: Ahmed Salman Hammadi Email: ahmed.salman@uoanbar.edu.iq Name: Walid Hanoush Hamad Email: Waled.hanoosh@uoanbar.edu.iq
152. Course Objectives	<ul style="list-style-type: none"> • The concept of cartography and the role of the

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 Learning Outcomes	Unit or subject name	Learning method	Evaluation 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 perception	Comparative scale and time scale	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Distance calculation and area calculation	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Zoom in and zoom out maps	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Coordinates and beams	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Nordic types	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Methods for determining true north	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Longitude and latitude lines	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Map locations and location characteristics	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Principles for choosing the appropriate location	Lecture and discussion	Daily and monthly exams

155. Course Evaluation

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

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 Description

157.	Course Name:	Political			
158.	Course Code:				
159.	Semester / Year:	Semester 1/ 2023-2024			
160.	Description Preparation Date:	12/9/2023			
161.	Available Attendance Forms:	Lectures			
162.	Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits			
163.	Course administrator's name (mention all, if more than one name)	Name: Ahmed Dawoud Hamid Email: Ahmed.daood@uanbar.edu.iq			
164.	Course Objectives	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Course Objectives</td> <td> <ul style="list-style-type: none"> • • The concept of geopolitics • • Research methods in political geography • • The relationship of political geography with other sciences </td> </tr> </table>		Course Objectives	<ul style="list-style-type: none"> • • The concept of geopolitics • • Research methods in political geography • • The relationship of political geography with other sciences
Course Objectives	<ul style="list-style-type: none"> • • The concept of geopolitics • • Research methods in political geography • • The relationship of political geography with other sciences 				
165.	Teaching and Learning Strategies	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Strategy</td> <td>Learning and teaching strategies and methods dependent in implementation of the program in general.</td> </tr> </table>		Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.				

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166. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	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	Understanding and 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	Understanding and perception	Size of the country	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and 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	Understanding and perception	Population density	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Population composition	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Economic components	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Agriculture and industry	Lecture and discussion	Daily and monthly exams

167. Course Evaluation

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

168. Learning and Teaching Resources

Required textbooks (curricular books, if any)

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

Course Description

169. Course Name:	
Local climate	
170. Course Code:	
171. Semester / Year:	
Semester 1/ 2023-2024	
172. Description Preparation Date:	
8/9/2023	
173. Available Attendance Forms:	
Lectures	
174. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
175. Course administrator's name (mention all, if more than one name)	
Name: Hamid Rajab Abdul Hakim Email: edw.h_ameed1@uoanbar.edu.iq	
176. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Local climate, its definition and development • • Areas of study • • Monitoring methods and features • • Local climate elements
177. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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178. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Local climate definition and development	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	His areas of study	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Monitoring methods and their advantages	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Local climate elements	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Solar radiation and radiation balance	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Thermometer of the Earth's surface	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Factors affecting the local climate	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Characteristics and temperature regime of air	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Annual temperature distribution	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Local pressure and wind systems	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Local climate patterns	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	City climate	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Mountain climate	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Jungle climate	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Climate of agricultural fields	Lecture and discussion	Daily and monthly exams

179. Course Evaluation

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

180. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	

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



Course Description

181. Course Name:	Natural field study		
182. Course Code:			
183. Semester / Year:	Semester 1/ 2023-2024		
184. Description Preparation Date:	17/9/2023		
185. Available Attendance Forms:	Lectures		
186. Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits		
187. Course administrator's name (mention all, if more than one name)	Name: Qasim Ahmed Raml Email: : kasemraml@uoanbar.edu.iq Name: Muhammad Musa Hammadi Email: mohammad.mussa@uoanbar.edu.iq Name: Student Ahmed Abdel Razzaq Ashour Email: taleb.ahmed@uoanbar.edu.iq Name: Hamid Rajab Abdul Hakim Email: edw.h_ameed1@uoanbar.edu.iq		
188. Course Objectives	<table border="1"> <tr> <td>Course Objectives</td> <td> <ul style="list-style-type: none"> • • The concept of field study • • Field study methods • • Field study requirements </td> </tr> </table>	Course Objectives	<ul style="list-style-type: none"> • • The concept of field study • • Field study methods • • Field study requirements
Course Objectives	<ul style="list-style-type: none"> • • The concept of field study • • Field study methods • • Field study requirements 		
189. Teaching and Learning Strategies			
Strategy			

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

190. 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 perception	Duties	Lecture and discussion	Daily and monthly exams

191. Course Evaluation

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

192. Learning and Teaching Resources

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





Course Description

193.	Course Name:	north america		
194.	Course Code:			
195.	Semester / Year:	Semester 1/ 2023-2024		
196.	Description Preparation Date:	10/9/2023		
197.	Available Attendance Forms:	Lectures		
198.	Number of Credit Hours (Total) / Number of Units (Total)	45 hours/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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; vertical-align: top;">Course Objectives</td> <td> <ul style="list-style-type: none"> • • Introduction to North America, location - area - borders - geographical extension • • Geological situation of the continent • • Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands • • Climatic characteristics on the continent - temperature characteristics - precipitation characteristics </td> </tr> </table>	Course Objectives	<ul style="list-style-type: none"> • • Introduction to North America, location - area - borders - geographical extension • • Geological situation of the continent • • Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands • • Climatic characteristics on the continent - temperature characteristics - precipitation characteristics
Course Objectives	<ul style="list-style-type: none"> • • Introduction to North America, location - area - borders - geographical extension • • Geological situation of the continent • • Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands • • Climatic characteristics on the continent - temperature characteristics - precipitation characteristics 			
201.	Teaching and Learning Strategies	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; vertical-align: top;">Strategy</td> <td>Learning and teaching strategies and methods dependent in implementation of the program in general.</td> </tr> </table>	Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.			

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202. Course Structure

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

203. Course Evaluation

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

204. Learning and Teaching Resources

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





Course Description

205.	Course Name:	
206.	Course Code:	
207.	Semester / Year:	Semester 1/ 2023-2024
208.	Description Preparation Date:	14/9/2023
209.	Available Attendance Forms:	Lectures
210.	Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits
211.	Course administrator's name (mention all, if more than one name)	Name: Ahmed Hilal Hammoud Email: ahmed.hellal@uoanbar.edu.iq
212.	Course Objectives	
213.	Teaching and Learning Strategies	
212.	Course Objectives	<ul style="list-style-type: none"> • • Location and area, the importance and status of Iraq 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.

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214. Course Structure

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

215. Course Evaluation

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

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

Course Description

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:	
Lectures	
222. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
223. Course administrator's name (mention all, if more than one name)	
Name: Walid Hanoush Hamad	
Email: Waled.hanoosh@uoanbar.edu.iq	
224. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Identify the concept of geology • The relationship of geology with other sciences • Astrogeology (atmosphere and hydrosphere) • Astrogeology (lithosphere and terrestrial gravity)
225. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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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
Thirteenth	3	Understanding and perception	The concept of environmental geology	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Human influences on lithosphere systems	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Human impacts on the hydrosphere and atmosphere	Lecture and discussion	Daily and monthly exams

227. Course Evaluation

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

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

Course Description

229. Course Name:	
Geomorphology	
230. Course Code:	
231. Semester / Year:	
Semester 1/ 2023-2024	
232. Description Preparation Date:	
13/9/2023	
233. Available Attendance Forms:	
Lectures	
234. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
235. Course administrator's name (mention all, if more than one name)	
Name: Laith Saadi Aftan Email: .sadee@uoanbar.edu.iq	
236. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Definition of geomorphology, its development, its field of work, and its relationship to other sciences. • Geomorphological factors and processes. • The time factor in geomorphological processes (geological time).
237. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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238. Course Structure

Week	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 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

239. Course Evaluation

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

240. Learning and Teaching Resources

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

Course Description

241. Course Name:	
Industry geography	
242. Course Code:	
243. Semester / Year:	
Semester 1/ 2023-2024	
244. Description Preparation Date:	
16/9/2023	
245. Available Attendance Forms:	
Lectures	
246. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
247. Course administrator's name (mention all, if more than one name)	
Name: Dr. Yassin Hamid Bidaa Majoul Shalal Email: dr.yassin_almehemdi75@uoanbar.edu.iq Name: Caesar Abdullah Hamad Farhan Email: qysser.abdullah@uoanbar.edu.iq	
248. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Introducing the geography of the industry and the factors of its emergence • • The stages of development of the branch of industry geography and its functions • • The concept of the industry / its stages of development / its types / its importance • • Industrial/capital localization factors
249. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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250. Course Structure

Week	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	Methods of analyzing the industrial 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	Geographical distribution of the industry in the world	Lecture and discussion	Daily and monthly exams

251. Course Evaluation

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

252. Learning and Teaching Resources

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

Course Description

253. Course Name:	
Weather science	
254. Course Code:	
255. Semester / Year:	
Semester 1/ 2023-2024	
256. Description Preparation Date:	
15/9/2023	
257. Available Attendance Forms:	
Lectures	
258. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
259. Course administrator's name (mention all, if more than one name)	
Name: Saadoun Musharraf Hussein	
Email: sadoon.mashreef@uoanbar.edu.iq	
260. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Concepts about weather • • The development of weather science • • The atmosphere and its components • • Layers of the atmosphere
261. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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262. Course Structure

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

263. Course Evaluation

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

264. Learning and Teaching Resources

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

Course Description

265. Course Name:	
Geography of cities	
266. Course Code:	
267. Semester / Year:	
Semester 1/ 2023-2024	
268. Description Preparation Date:	
17/9/2023	
269. Available Attendance Forms:	
Lectures	
270. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
271. Course administrator's name (mention all, if more than one name)	
Name: Hoda Hussein Ali	
Email: : huda.ali@uoanbar.edu.iq	
272. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • 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	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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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 development	Lecture and discussion	Daily and monthly exams

275. Course Evaluation

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

276. Learning and Teaching Resources

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

Course Description

277. Course Name:	
Environmental problems	
278. Course Code:	
279. Semester / Year:	
Semester 1/ 2023-2024	
280. Description Preparation Date:	
8/9/2023	
281. Available Attendance Forms:	
Lectures	
282. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
283. 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	
284. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Conceptual framework of the environment and environmental problems: the concept of the environment, types of environment. • • The concept of the ecosystem, the concept of the environmental problem, and the classification of 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 in implementation of the program in general.

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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

287. Course Evaluation

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

288. Learning and Teaching Resources

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

Course Description

289. Course Name:	
Energy geography	
290. Course Code:	
291. Semester / Year:	
Semester 1/ 2023-2024	
292. Description Preparation Date:	
17/9/2023	
293. Available Attendance Forms:	
Lectures	
294. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
295. Course administrator's name (mention all, if more than one name)	
Name: MD: Salah Adnan Majoul Shalal	
Email: salah.aaa@uoanber.edu.iq	
296. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • 1- Introducing students to the nature of traditional energy and its types • 2- Explain the importance of traditional energy • 3 - Development of energy use • 4- The relationship of ene
297. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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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	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 development	Lecture and discussion	Daily and monthly exams

299. Course Evaluation

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

300. Learning and Teaching Resources

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

Description

301. Course Name:	
Remote Sensing	
302. Course Code:	
303. Semester / Year:	
Semester 2/ 2023-2024	
304. Description Preparation Date:	
6/2/2024	
305. Available Attendance Forms:	
Lectures	
306. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
307. Course administrator's name (mention all, if more than one name)	
Name: Ahmed Salman Hammadi	
Email: : ahmed.salman@uoanbar.edu.iq	
308. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • A historical overview of remote sensing • • Types of remote sensing and their technology • • Sources of information in remote sensing
309. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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310. Course Structure

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	2- Non-photographic sensor sources	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Types of space imaging devices	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Satellite image and image processing specifications	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Satellite characteristics	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Remote sensing data sources	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	1) Land sat 7 satellite data	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	2) Quick bird 2 satellite data	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	3) IKonos 1 satellite data	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Interpretation of satellite images 1- Visual interpretation	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	2- Digital interpretation and remote sensing applications	Lecture and discussion	Daily and monthly exams

311. Course Evaluation

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

312. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (source)	.

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

Course Description

313. Course Name:	
Remote Sensing	
314. Course Code:	
315. Semester / Year:	
Semester 2/ 2023-2024	
316. Description Preparation Date:	
6/2/2024	
317. Available Attendance Forms:	
Lectures	
318. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
319. Course administrator's name (mention all, if more than one name)	
Name: Ahmed Salman Hammadi	
Email: : ahmed.salman@uoanbar.edu.iq	
320. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • A historical overview of remote sensing • • Types of remote sensing and their technology • • Sources of information in remote sensing
321. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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322. Course Structure

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	2- Non-photographic sensor sources	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Types of space imaging devices	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Satellite image and image processing specifications	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Satellite characteristics	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Remote sensing data sources	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	1) Land sat 7 satellite data	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	2) Quick bird 2 satellite data	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	3) IKonos 1 satellite data	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Interpretation of satellite images 1- Visual interpretation	Lecture and discussion	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 of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,...etc.

324. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (source)	.

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

Course Description

325. Course Name:	
Geographic statistics	
326. Course Code:	
327. Semester / Year:	
Semester 2/ 2023-2024	
328. Description Preparation Date:	
6/2/2024	
329. Available Attendance Forms:	
Lectures	
330. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
331. Course administrator's name (mention all, if more than one name)	
Name: Walid Hanoush Hamad	
Email: Waled.hanoosh@uoanbar.edu.iq	
332. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Definition of statistics • • Data and variables • • Data collection sources • • Data collection method
333. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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334. Course Structure

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

335. Course Evaluation

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

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

Course Description

337. Course Name:	
Services	
338. Course Code:	
339. Semester / Year:	
Semester 1/ 2023-2024	
340. Description Preparation Date:	
8/2/2024	
341. Available Attendance Forms:	
Lectures	
342. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
343. Course administrator's name (mention all, if more than one name)	
Name: Taha Ahmed Abd Abtan Email: : alani.kamal.5@uoanbar.edu.iq	
344. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> Planning concept • 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.

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346. Course Structure

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

347. Course Evaluation

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

348. Learning and Teaching Resources

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

Course Description

349. Course Name:	
Population geography	
350. Course Code:	
351. Semester / Year:	
Semester 2/ 2023-2024	
352. Description Preparation Date:	
3/2/2024	
353. Available Attendance Forms:	
Lectures	
354. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
355. Course administrator's name (mention all, if more than one name)	
Name: Qaiser Abdullah Ahmed	
Email: abdullah@uoanbar.edu.iq	
356. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • The concept of population geography and its relationship to other sciences • • The most important statistical sources for studying population geography • • Population growth, methods of measuring it, its stages, or factors affecting it
357. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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358. Course Structure

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	Daily and monthly exams

359. Course Evaluation

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

360. Learning and Teaching Resources

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

Electronic references, websites.

Course Description

361.	Course Name:
	Geographic thought
362.	Course Code:
363.	Semester / Year:
	Semester 2/ 2023-2024
364.	Description Preparation Date:
	9/2/2024
365.	Available Attendance Forms:
	Lectures
366.	Number of Credit Hours (Total) / Number of Units (Total)
	45 hours/45 credits
367.	Course administrator's name (mention all, if more than one name)
	Name: Kamal Abdullah Hassan Email: Khmal.abdullah@uoanbar.edu.iq
368.	Course Objectives
Course Objectives	<ul style="list-style-type: none">• Introduction to geographical thought• Geography and its relationship with other sciences• Branches of geography and their relationship to other fields• Regional concept and regional geography
369.	Teaching and Learning Strategies
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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370. Course Structure

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

371. Course Evaluation

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

372. Learning and Teaching Resources

Required textbooks (curricular books, if any)

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

Course Description

373. Course Name:	
The space is theoretical	
374. Course Code:	
375. Semester / Year:	
Semester 2/ 2023-2024	
376. Description Preparation Date:	
2/2/2024	
377. Available Attendance Forms:	
Lectures	
378. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
379. Course administrator's name (mention all, if more than one name)	
Name: Khaled Ibrahim Hussein	
Email: kahusseen@uoanbar.edu.iq	
380. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • The concept of teratology • • The development of surveying science • • Departments of surveying science
381. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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382. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	The concept of space science	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Departments of surveying science	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	The development of surveying science	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	The relationship of surveying to other sciences	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Public space	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Pictorial space	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Space and its relationship to technology	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	The relationship of space to geography	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	green areas	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Spaces and application	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Space and mathematical operations	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Surveying and information systems	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Scientific space	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Actual space	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Theoretical space	Lecture and discussion	Daily and monthly exams

383. Course Evaluation

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

384. Learning and Teaching Resources

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

Course Description

385. Course Name:	
Applied climate	
386. Course Code:	
387. Semester / Year:	
Semester 2/ 2023-2024	
388. Description Preparation Date:	
8/2/2024	
389. Available Attendance Forms:	
Lectures	
390. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
391. Course administrator's name (mention all, if more than one name)	
Name: Hamid Rajab Abdul Hakim Email: edw.h_ameed1@uoanbar.edu.iq Name: Louay Maher Hammad Email: luai.hammad@uoanbar.edu.iq	
392. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Definition of applied climate, its origins and development • • The origin and development of climate • • Development of applied climatology • • Recent trends in applied climatology
393. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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394. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation 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

395. Course Evaluation

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

396. Learning and Teaching Resources

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

Course Description

397. Course Name:	
Natural Resources	
398. Course Code:	
399. Semester / Year:	
Semester 2/ 2023-2024	
400. Description Preparation Date:	
12/2/2024	
401. Available Attendance Forms:	
Lectures	
402. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
403. Course administrator's name (mention all, if more than one name)	
Name: Ziad Freih Matar	
Email: zeyadfrayeh@uoanbar.edu.iq	
404. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • The concept of natural resources (their importance - causes - study). • • Classification of natural resources • • - Spatial classification:
405. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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406. Course Structure

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

407. Course Evaluation

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

408. Learning and Teaching Resources

Required textbooks (curricular books, if any)

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

Course Description

409.	Course Name:	
410.	Course Code:	
411.	Semester / Year:	
	Semester 2/ 2023-2024	
412.	Description Preparation Date:	
	12/2/2024	
413.	Available Attendance Forms:	
	Lectures	
414.	Number of Credit Hours (Total) / Number of Units (Total)	
	45 hours/45 credits	
415.	Course administrator's name (mention all, if more than one name)	
	Name: Laith Saadi Aftan	
	Email: laith.sadee@uoanbar.edu.iq	
416.	Course Objectives	
Course Objectives		<ul style="list-style-type: none"> • • Introduction to water science and the specialties concerned with studying it and its quantities in nature • • The water cycle in nature and the water balance • • 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.

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418. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	An introduction to water science and the specializations concerned with its study and its quantities in nature	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	The water cycle in nature and the water balance	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Evaporation and methods for calculating it	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Precipitation and methods of calculating it	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	River basins and watercourse classification	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Water drainage system and methods for measuring it	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Factors affecting water drainage	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	River system and its sources of nutrition	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Lakes and swamps	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Definition of groundwater and its concretions	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Factors affecting groundwater and its spatial variation	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Groundwater characteristics, quality and quantity	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Water problems in arid and semi-arid areas	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Ways to address the water problem	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Evaluation of water resources in Iraq (Tigris and Euphrates rivers)	Lecture and discussion	Daily and monthly exams

419. Course Evaluation

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

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

Course Description

421. Course Name:	
south america	
422. Course Code:	
423. Semester / Year:	
Semester 2/ 2023-2024	
424. Description Preparation Date:	
3/2/2024	
425. Available Attendance Forms:	
Lectures	
426. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
427. Course administrator's name (mention all, if more than one name)	
Name: Kamal Abdullah Hassan Email: Khmal.abdullah@uoanbar.edu.iq	
428. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Location - area - borders - geographical extension • • Geological situation of the continent • • Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands • • Climatic characteristics on the continent - temperature characteristics - precipitation characteristics
429. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in

implementation of the program in general.

430. Course Structure

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	Lecture and discussion	Daily and monthly exams

			crops on the continent and their geographical distribution - livestock production		
eleventh	3	Understanding and perception	Geographical distribution of livestock on the continent	Lecture and 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	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Regional study of some countries of the continent	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Republic of Brazil	Lecture and discussion	Daily and monthly exams

431. Course Evaluation

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

432. Learning and Teaching Resources

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

Course Description

433.	Course Name:	The Arab world		
434.	Course Code:			
435.	Semester / Year:	Semester 2/ 2023-2024		
436.	Description Preparation Date:	5/2/2024		
437.	Available Attendance Forms:	Lectures		
438.	Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits		
439.	Course administrator's name (mention all, if more than one name)	Name: Ahmed Dawoud Hamid Email: Ahmed.daood@ouanbar.edu.iq		
440.	Course Objectives	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; vertical-align: top;">Course Objectives</td> <td> <ul style="list-style-type: none"> • 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 • 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 </td> </tr> </table>	Course Objectives	<ul style="list-style-type: none"> • 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 • 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
Course Objectives	<ul style="list-style-type: none"> • 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 • 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		

implementation of the program in general.

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 and perception	Trade and its importance in the Arab world	Lecture and discussion	Daily and monthly exams
443. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,...etc.					
444. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (source)					
Recommended books and references (scientific journals, reports...)					
Electronic references, websites.					

Course Description

445. Course Name:	
south america	
446. Course Code:	
447. Semester / Year:	
Semester 2/ 2023-2024	
448. Description Preparation Date:	
3/2/2024	
449. Available Attendance Forms:	
Lectures	
450. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
451. Course administrator's name (mention all, if more than one name)	
Name: Kamal Abdullah Hassan Email: Khmal.abdullah@uoanbar.edu.iq	
452. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Location - area - borders - geographical extension • • Geological situation of the continent • • Characteristics of the topographic situation - the eastern highlands - the western highlands - the central highlands • • Climatic characteristics on the continent - temperature 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

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	Lecture and discussion	Daily and monthly exams

			crops on the continent and their geographical distribution - livestock production		
eleventh	3	Understanding and perception	Geographical distribution of livestock on the continent	Lecture and 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	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Regional study of some countries of the continent	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Republic of Brazil	Lecture and discussion	Daily and monthly exams

455. Course Evaluation

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

456. Learning and Teaching Resources

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

Course Description

457. Course Name:	
Seas and oceans	
458. Course Code:	
459. Semester / Year:	
Semester 2/ 2023-2024	
460. Description Preparation Date:	
10/2/2024	
461. Available Attendance Forms:	
Lectures	
462. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
463. Course administrator's name (mention all, if more than one name)	
Name: Qasim Ahmed Raml Email: kasemraml@uoanbar.edu.iq	
464. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • An introduction to marine and ocean science and its fields of specialization • • The emergence of sea and ocean basins and their continued formation • • Geographic distribution of the world oceans
465. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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466. Course Structure

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 coasts	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	The importance of seas and oceans	Lecture and discussion	Daily and monthly exams

467. Course Evaluation

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

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 Description

469. Course Name:	
Planning and development	
470. Course Code:	
471. Semester / Year:	
Semester 2/ 2023-2024	
472. Description Preparation Date:	
3/2/2024	
473. Available Attendance Forms:	
Lectures	
474. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
475. 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	
476. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Planning concept • • The importance of planning • • Planning components and elements
477. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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478. Course Structure

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	The importance of planning	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Planning components and elements	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Considerations to be taken into account when developing the plan	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Stages of preparing the plan	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Varieties and types of planning	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Urban planning	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Urban planning	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	The concept of development and its types	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Natural development	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Human Development	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Comprehensive development	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	sustainable development	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Social development	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Urban development	Lecture and discussion	Daily and monthly exams

479. Course Evaluation

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

480. Learning and Teaching Resources

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

Course Description

481. Course Name:	Energy geography		
482. Course Code:			
483. 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 name)	Name: MD: Salah Adnan Majoul Shalal Email: salah.aaa@uoanber.edu.iq		
488. Course Objectives	<table border="1"> <tr> <td>Course Objectives</td> <td> <ul style="list-style-type: none"> • 1- Introducing students to the nature of traditional energy and its types • 2- Explain the importance of traditional energy • 3 - Development of energy use • 4- The relationship of ene </td> </tr> </table>	Course Objectives	<ul style="list-style-type: none"> • 1- Introducing students to the nature of traditional energy and its types • 2- Explain the importance of traditional energy • 3 - Development of energy use • 4- The relationship of ene
Course Objectives	<ul style="list-style-type: none"> • 1- Introducing students to the nature of traditional energy and its types • 2- Explain the importance of traditional energy • 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 development	Lecture and discussion	Daily and monthly exams

491. Course Evaluation

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

492. Learning and Teaching Resources

Required textbooks (curricular books, if any)

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

Course Description

493. Course Name:	Geomorphology
494. Course Code:	
495. Semester / Year:	Semester 2/ 2023-2024
496. Description Preparation Date:	5/2/2024
497. Available Attendance Forms:	Lectures
498. Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits
499. Course administrator's name (mention all, if more than one name)	Name: Muhammad Musa Hammadi Email: mohammad.mussa@uoanbar.edu.iq
500. Course Objectives	<ul style="list-style-type: none"> • Definition of geomorphology, its development, its field of work, and its relationship to other sciences. • Geomorphological factors and processes. • The time factor in geomorphological processes (geological time).
501. Teaching and Learning Strategies	
Strategy	

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

502. Course Structure

Week	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 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 of 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.	





Course Description

505.	Course Name:	agricultural
506.	Course Code:	
507.	Semester / Year:	Semester 2/ 2023-2024
508.	Description Preparation Date:	12/2/2024
509.	Available Attendance Forms:	Lectures
510.	Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits
511.	Course administrator's name (mention all, if more than one name)	Name: Kamal Saleh Kazkouz Majbas Email: alani.kamal.5@uoanbar.edu.iq
512.	Course Objectives	
Course Objectives		<ul style="list-style-type: none"> • • The concept of agricultural geography • • 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.

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514. Course Structure

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

			factors 1- Surface 2- Climate 3- Soil / Human factors 1- Social factors 2- Economic factors 3- Political factors 4- Biological factors		
The eighth	3	Understanding and perception	Patterns of agricultural production - the concept of pattern - social characteristics and agricultural ownership - sections of agricultural patterns 1- shifting cultivation 2- self-sufficiency agriculture 3- large-scale agriculture 4- mixed agriculture	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 relationship of agricultural yield production to geographical factors	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Classification of agricultural production - plant - animal -	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Basics of plant production classification	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Agricultural crops - importance - geographical distribution	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Livestock - cows - sheep - poultry -	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Patterns of agricultural production - the concept of pattern - social characteristics and agricultural ownership - sections of agricultural patterns 1- shifting cultivation 2- self-sufficiency agriculture 3- large-scale agriculture 4- mixed agriculture	Lecture and discussion	Daily and monthly exams

515. Course Evaluation

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

516. Learning and Teaching Resources

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

Course Description

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:	Lectures			
522.	Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits			
523.	Course administrator's name (mention all, if more than one name)	Name: Hoda Hussein Ali Email: : huda.ali@uoanbar.edu.iq			
524.	Course Objectives	<table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Course Objectives</td> <td> <ul style="list-style-type: none"> • • Defining the geography and geography of health and its importance • • Definition of geography • • The relationship of geography to health • • Definition of health geography </td> </tr> </table>		Course Objectives	<ul style="list-style-type: none"> • • Defining the geography and geography of health and its importance • • Definition of geography • • The relationship of geography to health • • Definition of health geography
Course Objectives	<ul style="list-style-type: none"> • • Defining the geography and geography of health and its importance • • Definition of geography • • The relationship of geography to health • • Definition of health geography 				
525.	Teaching and Learning Strategies	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Strategy</td> <td>Learning and teaching strategies and methods dependent in implementation of the program in general.</td> </tr> </table>		Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.				

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526. Course Structure

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

Course Description

529. Course Name:	
Human geography of Iraq	
530. Course Code:	
531. Semester / Year:	
Semester 2/ 2023-2024	
532. Description Preparation Date:	
6/2/2024	
533. Available Attendance Forms:	
Lectures	
534. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
535. Course administrator's name (mention all, if more than one name)	
Name: Ahmed Hilal Hammoud Email: ahmed.hellal@uoanbar.edu.iq	
536. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Location, area, and its importance • • The population in Iraq, its number, distribution, and growth rates • • Agricultural activity • • Factors affecting agricultural activity
537. Teaching 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	Tourism in Iraq	Lecture and discussion	Daily and monthly exams
539. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,...etc.					
540. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (source)					
Recommended books and references (scientific journals, reports...)					
Electronic references, websites.					

Course Description

541. Course Name:	
climatology	
542. Course Code:	
543. Semester / Year:	
Semester 2/ 2023-2024	
544. Description Preparation Date:	
8/2/2024	
545. Available Attendance Forms:	
Lectures	
546. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
547. Course administrator's name (mention all, if more than one name)	
Name: Saadoun Musharraf Hussein Email: sadoon.mashreef@uoanbar.edu.iq Name: Louay Maher Hammad Email: luai.hammad@uoanbar.edu.iq	
548. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • 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 Learning Outcomes	Unit or subject name	Learning method	Evaluation method
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 of 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.	

Course Description

553. Course Name:	Application project
554. Course Code:	
555. Semester / Year:	Semester 2/ 2023-2024
556. Description Preparation Date:	3/2/2024
557. Available Attendance Forms:	Lectures
558. Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits
559. Course administrator's name (mention all, if more than one name)	Name: Thaer Khairallah Osman Email: thaar.asman@uoanbar.edu.iq
560. Course Objectives	<ul style="list-style-type: none"> • 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 perception	Some commands related to modify task	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Classification (coding) in Arc GIS	Lecture and discussion	Daily and monthly exams

563. Course Evaluation

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

564. Learning and Teaching Resources

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

Course Description

565. Course Name:	Human field geography
566. Course Code:	
567. Semester / Year:	Semester 2/ 2023-2024
568. Description Preparation Date:	5/2/2024
569. Available Attendance Forms:	Lectures
570. Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits
571. Course administrator's name (mention all, if more than one name)	Name: Kamal Saleh Kazkouz Majbas Email: alani.kamal.5@uoanbar.edu.iq Name: MD: Salah Adnan Majoul Shalal Email: salah.aaa@uoanber.edu.iq Name: Ahmed Hilal Hammoud Email: ahmed.hellal@uoanbar.edu.iq

572. Course Objectives

Course Objectives

- • The concept of field study
- • Field study methods
- • 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 perception	Duties	Lecture and discussion	Daily and monthly exams
575. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports,...etc.					
576. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (source)					
Recommended books and references (scientific journals, reports...)					
Electronic references, websites.					

Course Description

577. Course Name:	
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	
584. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • The concept and importance of industrial planning • • Industrial site planning standards • • Industrial planning within the framework of the philosophy of the socialist economic system • • Industrial planning within the framework of the

philosophy of the capitalist economic system

585. Teaching and Learning Strategies

Strategy

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

586. Course Structure

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 - Mosses)	Lecture and discussion	Daily and monthly exams
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

587. Course Evaluation

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

588. Learning and Teaching Resources

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



Course Description

589.	Course Name:	Industrial location theories
590.	Course Code:	
591.	Semester / Year:	Semester 2/ 2023-2024
592.	Description Preparation Date:	7/2/2024
593.	Available Attendance Forms:	Lectures
594.	Number of Credit Hours (Total) / Number of Units (Total)	45 hours/45 credits
595.	Course administrator's name (mention all, if more than one name)	Name: Yassin Hamid Bida Email: almehemdi75@uoanbar.edu.iq
596.	Course Objectives	
Course Objectives		<ul style="list-style-type: none"> • • The concept and importance of industrial planning • • Industrial site planning standards • • Industrial planning within the framework of the philosophy of the socialist economic system • • Industrial planning within the framework of the philosophy of the capitalist economic system
597.	Teaching and Learning Strategies	
Strategy		Learning and teaching strategies and methods dependent in implementation of the program in general.

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598. Course Structure

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 - Mosses)	Lecture and discussion	Daily and monthly exams

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. Course Evaluation

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

600. Learning and Teaching Resources

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



Course Description

601. Course Name:	
International theories	
602. Course Code:	
603. Semester / Year:	
Semester 2/ 2023-2024	
604. Description Preparation Date:	
5/2/2024	
605. Available Attendance Forms:	
Lectures	
606. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
607. Course administrator's name (mention all, if more than one name)	
Name: Ahmed Dawoud Hamid	
Email: Ahmed.daood@ouanbar.edu.iq	
608. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Political theories and their concepts • • • • Biofield theory
609. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

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610. Course Structure

Week	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 monthly exams
The second	3	Understanding and perception		Lecture and discussion	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

611. Course Evaluation

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

612. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (source)	
Recommended books and references (scientific	

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

Course Description

613. Course Name:	
Transfer	
614. Course Code:	
615. Semester / Year:	
Semester 1/ 2023-2024	
616. Description Preparation Date:	
8/2/2024	
617. Available Attendance Forms:	
Lectures	
618. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
619. Course administrator's name (mention all, if more than one name)	
Name: Taha Ahmed Abd Abtan	
Email: : alani.kamal.5@uoanbar.edu.iq	
620. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • The development of transportation and its means • • 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.

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622. 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 development	Lecture and discussion	Daily and monthly exams

623. Course Evaluation

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

624. Learning and Teaching Resources

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

Course Description

625. Course Name:	
Africa	
626. Course Code:	
627. Semester / Year:	
Semester 2/ 2023-2024	
628. Description Preparation Date:	
12/2/2024	
629. Available Attendance Forms:	
Lectures	
630. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
631. Course administrator's name (mention all, if more than one name)	
Name: MD: Salah Adnan Majoul Shalal	
Email: salah.aaa@uoanber.edu.iq	
632. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • 1- Africa in history - location, shape, area • • Geological history - African Rift • • Surface features - river discharge and economic importance • • Climate and climatic regions
633. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

634. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first	3	Understanding and perception	Geological History - African Rift	Lecture and discussion	Daily and monthly exams
The second	3	Understanding and perception	Surface manifestations - river discharge and economic importance	Lecture and discussion	Daily and monthly exams
the third	3	Understanding and perception	Climate and climatic regions	Lecture and discussion	Daily and monthly exams
the fourth	3	Understanding and perception	Rainfall on the continent	Lecture and discussion	Daily and monthly exams
Fifth	3	Understanding and perception	Atmospheric pressure and wind-temperature	Lecture and discussion	Daily and monthly exams
The sixth	3	Understanding and perception	Atmospheric pressure and wind - rain	Lecture and discussion	Daily and monthly exams
The seventh	3	Understanding and perception	Climatic regions	Lecture and discussion	Daily and monthly exams
The eighth	3	Understanding and perception	Natural vegetation and plant regions	Lecture and discussion	Daily and monthly exams
The ninth	3	Understanding and perception	Soil and its formation factors - soil problems - epidemics and diseases	Lecture and discussion	Daily and monthly exams
The tenth	3	Understanding and perception	Human races - the continent's population and the factors affecting their distribution	Lecture and discussion	Daily and monthly exams
eleventh	3	Understanding and perception	Human and natural factors	Lecture and discussion	Daily and monthly exams
Twelfth	3	Understanding and perception	Regional study - Republic of Kenya	Lecture and discussion	Daily and monthly exams
Thirteenth	3	Understanding and perception	Republic of South Africa	Lecture and discussion	Daily and monthly exams
fourteenth	3	Understanding and perception	Republic of Zaire	Lecture and discussion	Daily and monthly exams
Fifteenth	3	Understanding and perception	Geological History - African Rift	Lecture and discussion	Daily and monthly exams

635. Course Evaluation

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

636. Learning and Teaching Resources

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

Course Description

637. Course Name:	
Europe	
638. Course Code:	
639. Semester / Year:	
Semester 2/ 2023-2024	
640. Description Preparation Date:	
12/2/2024	
641. Available Attendance Forms:	
Lectures	
642. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
643. Course administrator's name (mention all, if more than one name)	
Name: MD: Salah Adnan Majoul Shalal	
Email: salah.aaa@uoanber.edu.iq	
644. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • • Europe and its contemporary history - location, shape, and space • • Geological history • • Surface features - rivers and economic importance • • Climate and climatic regions
645. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

646. Course Structure					
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 monthly 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

647. Course Evaluation

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

648. Learning and Teaching Resources

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



Course Description

649. Course Name:	
Geography of health	
650. Course Code:	
651. Semester / Year:	
Semester 2/ 2023-2024	
652. Description Preparation Date:	
14/2/2024	
653. Available Attendance Forms:	
Lectures	
654. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours/45 credits	
655. Course administrator's name (mention all, if more than one name)	
Name: Hoda Hussein Ali Email: : huda.ali@uoanbar.edu.iq	
656. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Defining the geography and geography of health and its importance • • Definition of geography • • The relationship of geography to health • • Definition of health geograph
657. Teaching and Learning Strategies	
Strategy	Learning and teaching strategies and methods dependent in implementation of the program in general.

658. 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 development	Lecture and discussion	Daily and monthly exams

659. Course Evaluation

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

660. Learning and Teaching Resources

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



