



**Ministry of Higher Education and Scientific Research
Scientific Supervision and Evaluation Authority
Quality Assurance and Academic Accreditation Department
Accreditation Department**

Academic Program and Course Description Guide

Academic Program and Course

2025–2026

Introduction:

The educational program is a coordinated and structured package of courses that include procedures and experiences that are organized in the form of a vocabulary of study whose main purpose is to build and refine the skills of graduates to make them qualified to meet the requirements of the labor market, which is reviewed and evaluated annually through internal or external audit procedures and programs such as the external examiner program.

The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that are being worked on to acquire students based on the objectives of the academic program, and the importance of this description is evident because it represents the cornerstone of obtaining program accreditation and is co-written by the teaching staff under the supervision of the scientific committees in the scientific departments.

This manual, in its second edition, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the developments and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the description of the academic program circulated under the letter of the Department of Studies TE3/2906 on 3/10/2024 regarding the programs that adopt the Bologna track as the basis for their work.

In this regard, we can only stress the importance of writing descriptions of academic programs and courses to ensure the smooth functioning of the educational process.

Concepts and Terms:

Academic Program Description: The academic program description provides a brief summary of its vision, mission, and goals, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: It provides a concise summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious vision of the future of the academic program to be a cutting-edge, inspiring, stimulating, realistic and viable program.

Program Mission: Briefly outlines the goals and activities needed to achieve them and outlines the program's development paths and directions.

Program Objectives: These are phrases that describe what the academic program intends to achieve over a specific period of time and are measurable and observable.

Curriculum Structure: All courses/subjects included in the academic program according to the approved learning system (semester, yearly, Bologna track), whether they are a requirement (ministry, university, college and scientific department) with the number of study units.

Learning Outcomes: A consistent set of knowledge, skills, and values that the student has acquired after the successful completion of the academic program and must define the learning outcomes of each course in a way that achieves the goals of the program.

Teaching and Learning Strategies: These are the strategies used by the faculty member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

The logo of Muthanna University is a circular emblem with Arabic calligraphy. It features the university's name in the center, surrounded by a decorative border. The text 'جامعة المثنى' (University of Muthanna) is visible at the top of the emblem.

Academic Program Description Form

University Name: Muthanna University

College/Institute: College of Education for Humanities

Scientific Department: Geography Department

Name of the Academic or Professional Program: The Teaching Curricula in the Department of Geography and its Expected Outcomes

Name of the final certificate: Postgraduate studies (Master's and Ph.D.) in Geography

Academic System: Semester

Description preparation date: 1/9/2025

File Filling Date : 1/9/2025



Signature :

Scientific Associate Name:
Prof. Dr. Latif Kamel Kalioui



Signature :

Head of Department: Prof.
Yahya Abdel Hassan Falih

Date : 1/9/2025

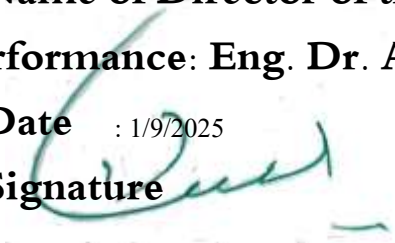
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Division of Quality Assurance and University Performance

Name of Director of the Division of Quality Assurance and University Performance: Eng. Dr. Ali Hussein Enshinch

Date : 1/9/2025

Signature



the Dean

10/9/2025

1. Program Vision

The Department of Geography relies on its vision to raise the academic and research level in all geographical disciplines to keep pace with scientific progress and the requirements of society and to reach a local and regional leading position through which it aspires to excellence and enrich knowledge through sober scientific research in addition to effective teaching.

This vision is based on:

- 1– Education is a rapidly evolving profession both professionally and technically.
- 2– Recognizing the change in the role of the teacher from a transmitter and indoctrinator to a learning path, a manager of the educational process and a planner, and a factor in developing creativity, self-learning, and teamwork.
- 3– Academic preparation of quality and excellence, because it is the basis for the success of the learning and educational process.

2. Program Mission

The Department of Geography at the College of Education has the responsibility of preparing a generation that is academically and culturally empowered, integrated into society, and linked to the Arab and Islamic intellectual heritage, by working to prepare academics and researchers who take upon themselves the advancement of the scientific reality in Iraq, by finding solid means and programs to study the science of geography in both its natural and human aspects through the adoption of scientific and cognitive techniques and the development of cognitive and behavioral skills within its framework, through building perceptions and taking measures to prepare educational cadres and develop education at all levels in cooperation with the university's faculties and relevant ministries.

3. Program Objectives

General Objectives of the Department of Geography

- 1– Benefiting from the science of geography in developing the skills of free thinking based on the study and analysis of various geographical phenomena and their resynthesis among graduate students in order to reach a geographical understanding that is commensurate with the nature and goal of the specialization.**
- 2– Developing the ability to critique ideas, opinions, and geographical theories in order to reach a state of sober scientific innovation.**
- 3– Familiarity with international geographical schools in a way that gives the student a clear understanding and understanding of the process of geography and its development.**
- 4– Giving the student the ability to perceive and understand the message of man on earth and the purpose of his existence represented in the worship of God and the reconstruction of the earth, to realize the messages of heaven to man throughout the ages.**
- 5– Providing the student with the skills and mechanisms of geographical scientific research in order to make him proficient in the science in which he is specializing, and the consequent ability to understand and perceive the present and try to foresee the future.**

4. Program Accreditation

Under Audit

5. Other External Influences

Is there a sponsor of the program? Ministry of Higher Education and Scientific Research

6. Program Structure

Notes*	Percentage	Study Unit	Number of Courses	Program Structure
	0	0	0	Enterprise Requirements
	21%	8	6	College Requirements
Electives are combined to take into account proportions according to the corresponding subjects for selection	79%	44	22	Department Requirements
None				Summer Training
				Other

* It is possible to include notes on whether the course is basic or elective.

7. Program Description

Credit Hours		Course or course name	Course or course code	Year/Level
practical	theoretical			
	2	Geographical Scientific Research Skills and Seminars	EG501	Master's Degree First Semester
	2	City morphology	EG502	
	2	Contemporary Population	EG503	

		Studies		
	2	Applied Geomorphology	EG504	
	2	Holistic climate	EG505	
	2	English	EG506	
	2	Recent Trends in Geopolitics	EG507	
	2	Learning Theories	EG508	Master's Degree Second Semester
	2	Geomorphology of the Quadrilateral Era	EG509	
	2	Ecosystems	EG510	
	2	Urban Development	EG511	
	2	Water Resources	EG512	
	2	Geostrategic Theories	EG513	
	2	GIS	EG514	
	2	Renewables	EG515	
	2	Cybersecurity geopolitics	EG516	
	2	English	EG517	
	2	Geographical Scientific Research Skills and Seminars	EG601	Ph.D. First Semester
	2	Philosophy of Education	EG602	
	2	Applied hydrology	EG603	
	2	Studies in Geographical Thought	EG604	
	2	Environmental Problems	EG605	
	2	Environmental Geomorphology	EG606	
	2	English	EG607	
	2	Dryland geomorphology	EG608	Ph.D. Second Semester
	2	Contemporary Problems in Geopolitics	EG609	
	2	Geomorphological Hazards	EG610	
	2	Geography of International Relations	EG611	
	2	Medina Region	EG612	
	2	Contemporary Urban Problems	EG613	
	2	Water Resources Management	EG614	
	2	Climate Change	EG615	
	2	Studies in Sustainable Development	EG616	
	2	Remote Sensing	EG617	
	2	Contemporary Problems in Energy Geography	EG618	
	2	Applications of Artificial Intelligence in Contemporary Population Studies	EG619	
	2	English	EG620	

8. Expected Learning Outcomes of the Program

Knowledge

Learning Outcomes
Statement 1

- 1– The student must be familiar with the basics of geographical technologies, information systems, and digital technology and their adoption in geographical mapping.
- 2– A deep understanding of the philosophy of natural and human geography to create a solid academic personality.
- 3– The student should understand the ABCs of academic education, its methods, theories, and skills.
- 4– The student should learn the method of writing scientific research and be able to transfer information from foreign sources

Skills

Learning Outcomes
Statement 2

- 1– The student should draw geographical maps using modern technologies.
- 2– The student should participate in scientific discussions, seminars, and research writing.
- 3– The student should apply academic methods and skills in teaching.
- 4– The student should be able to deal with English speakers, as well as his ability to translate from foreign sources.

Values

Learning Outcomes
Statement 3

- 1- The student should feel the value of academic education in building himself first and building society second.
- 2- The student should have a spirit of cooperation between team members to solve problems and manage discussions.
- 3- The student should be honest in the transfer of knowledge.
- 4- The student should work to build himself in a straight way with a personality that is qualified to enter the academic work.

9. Teaching and Learning Strategies

- 1- The method of lecture , discussion and teamwork .
- 2- Brainstorming with the aim of developing a free thinking style and innovation .
- 3– Teaching and e-learning strategy and the use of artificial intelligence software in analysis .

10. Evaluation Methods

Oral Testing and Assessment via Discussion

Monthly and final written exams

Brainstorming and interaction assessment

Writing weekly reports and translations

Writing quarterly research and evaluating the progress in cognitive performance

12. Faculty

Faculty Members

Preparing the teaching staff		Special requirements/skills (if applicable)		Specialization		Academic Rank	
Lecturer	Angel			Special	General		
	Angel			Geopolitics	Geography	Prof. Dr. Latif Kamel Klewi Juhail	
	Angel			Geomorphology	Geography	Prof. Dr. Sarhan Naeem Tashtoush Hussein	
	Angel			Geopolitics	Geography	Prof. Dr. Adnan Kazem Jabbar Hammadi	
	Angel			Methods of Teaching Sociology	Teaching Methods	Prof. Dr. Karim Abis Abu Halil Khalifa	
	Angel			Geomorphology	Geography	Prof. Dr. Safir Jassim Hussain Fadar	
	Angel			Environment and pollution	Geography	Prof. Dr. Anwar Sabah Mohamed Moussa	

	Angel			Geography of cities	Geography	Prof. Dr. Yahya Abd El , Hassan Falih Hassan	
	Angel			Hydrology	Geography	Prof. Dr. Adnan Odeh Falih Harbi	
	Angel			Geography of cities	Geography	Maher Nasser Abdullah Mohammed	
	Angel			Climate Geography	Geography	Rafid Abd El , Nabi Ibrahim Salman	
	Angel			Geopolitics	Geography	Prof. Dr. Hamida Abdulhussain Mohamed Rahoum	
	Angel			Geography of Development	Geography	Prof. Dr. Lifta Fateen Obeid	
	Angel			Remote sensing	Forest Science	Assoc. Prof. Dr. Ali Fadel Hassan Hassan	
	Angel			Population Geography	Geography	Assoc. Prof. Dr. Aqeel Kazim Wali Khader	
	Angel			Geographical Thought	Geography	Assoc. Prof. Dr. Huda Idan Jabbar Ghazi	
	Angel			Energy Geography	Geography	Assoc. Prof. Dr. Jassim and Hawah Shati Hussain	
	Angel			Geopolitics	Geography	Assoc. Prof. Dr. Ahmed Hassan Majhoun Karim	
	Angel			Population Geography	Geography	Assoc. Prof. Dr. Shaker Awad Dahi Muhaisen	
Lecturer				Linguistics	English	Prof. Salam Abbas Mahmoud	
Lecturer				English Literature	English	Prof. Omar Raouf	

Professional Development

Mentoring new faculty members
Mentoring and developing new teachers through intensive training courses and workshops
Faculty Professional Development
Sustainability of meetings, work of scientific committees, and holding seminars and training courses.

21. Admission Criteria
According to the Ministry's regulations

22. Key sources of information about the program
1– Ministerial Instructions. 2. Deans' Committee

23. Program Development Plan
1– Developing the teaching staff through training courses and workshops 2– Follow-up on the preparation of subprogrammes in terms of courses and vocabulary 3– Conducting seminars for faculty and graduate students 4– Effective participation in field studies and training programs 5– Continuous updating of curricula according to the requirements of the labor market in terms of sustainable development, artificial intelligence, and green education

Program Skills Outline															
Learning Outcomes Required from the Program															
Values				Skills				Knowledge				Basic or Optional	Course Name	Course Code	Year/Level
C4	C3	C2	A1		B3	B2		A4	A3			Basic	Geographical Scientific Research Skills and Seminars	EG501	Master's Degree First Semester
C4			A1			B2				A2		Basic	City morphology	EG502	
C4			A1			B2				A2		Basic	Contemporary Population Studies	EG503	
C4			A1			B2				A2		Basic	Applied Geomorphology	EG504	
C4			A1			B2				A2		Basic	Holistic climate	EG505	
C4				B4				A4				Basic	English	EG506	
C4			A1			B2				A2		Basic	Recent Trends in Geopolitics	EG507	
C4			A1		B3				A3			Basic	Learning	EG508	Master's

													Theories		Degree Second Semester
C4			A1			B2				A2		Basic	Geomorphology of the Quadrilateral Era	EG509	
C4			A1			B2				A2		Basic	Ecosystems	EG510	
C4			A1			B2				A2		Optional	Urban Development	EG511	
C4			A1			B2				A2		Basic	Water Resources	EG512	
C4			A1			B2				A2		Optional	Geostrategic Theories	EG513	
C4			A1				B1				A1	Basic	GIS	EG514	
C4			A1			B2				A2		Basic	Renewables	EG515	
C4			A1			B2				A2		Optional	Cybersecurity geopolitics	EG516	
C4				B4				A4				Basic	English	EG517	
C4	C3	C2	A1		B3	B2		A4	A3			Basic	Geographical Scientific Research Skills	EG601	Ph.D. First Semester

													and Seminars		
C4			A1		B3				A3			Basic	Philosophy of Education	EG602	
C4			A1			B2				A2		Basic	Applied hydrology	EG603	
C4			A1			B2				A2		Basic	Studies in Geographical Thought	EG604	
C4		C2	A1			B2				A2		Basic	Environmental Problems	EG605	
C4			A1			B2				A2		Basic	Environmental Geomorphology	EG606	
C4				B4				A4				Basic	English	EG607	
C4			A1			B2				A2		Basic	Dryland geomorphology	EG608	Ph.D. Second Semester The third
C4		C2	A1			B2				A2		Basic	Contemporary Problems in Geopolitics	EG609	
C4		C2	A1			B2				A2		Optional	Geomorphological Hazards	EG610	
C4			A1			B2				A2		Basic	Geography of International	EG611	

													Relations		
C4			A1			B2				A2		Basic	Medina Region	EG612	
C4		C2	A1			B2				A2		Basic	Contemporary Urban Problems	EG613	
C4			A1			B2				A2		Basic	Water Resources Management	EG614	
C4			A1			B2				A2		Basic	Climate Change	EG615	
C4			A1			B2				A2		Optional	Studies in Sustainable Development	EG616	
C4			A1				B1				A1	Basic	Remote Sensing	EG617	
C4		C2	A1			B2				A2		Optional	Contemporary Problems in Energy Geography	EG618	
C4							B1				A1	Optional	Applications of Artificial Intelligence in Contemporary Population	EG619	

													Studies		
C4				B4				A4				Basic	English	EG620	

Please indicate the boxes corresponding to the individual learning outcomes from the program being evaluated

Course Description Form

1. Course Name	
Applied Geomorphology	
2. Course Code	
EG504	
3. Semester/ Year	
you semester	
4. Date this description was prepared	
1/9/2025	
5. Available Forms of Attendance	
Weekly	
6. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
7. Course administrator name (if more than one name mentioned)	
Prof. Dr. Sarhan Naim Tashtoush	
8. Course Objectives	
The course aims to: interpret and analyze the shapes of the earth's surface of various types, adopt modern techniques to measure various geomorphological processes and manifestations in the field and laboratory, study hydromorphometric applications in the study of rivers and valleys, and applications of geomorphological engineering studies such as building roads and dams, digging tunnels, evaluating and confronting natural disasters, and developing and investing natural resources.	Course Objectives
9. Teaching and Learning Strategies	
A- Knowledge Objectives : - Understanding the origin of terrain and analyzing geomorphological maps - Understanding the role of geomorphological processes in the environment. - Adding modern techniques in applied geomorphology. - Assessing the impact of landforms on investment and urban planning. - Spatial analysis, data reading, and practical applications in engineering projects. b. Skill objectives of the course. - Field analysis and interpretation skills. - Environmental and urban planning skills (land use assessment, environmental management). - Skills of investing resources and engineering projects. - Problem-solving and scientific research skills, represented in writing scientific reports and environmental critical thinking. C. Emotional and Values Goals:	Strategy

1. Environmental awareness and appreciation. 2. Moral responsibility. 3. Response and Social Participation 4. Scientific and research trends.	
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10. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Applied Geomorphology and its Dimensions	The student should learn the concept of applied geomorphology	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Field Study in Geomorphology	The student should understand the field study in applied geomorphology	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Weathering..... and its geomorphological role	The student should be aware of weathering processes and their geomorphological role	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Soils, their origins, and their problems.	The student should understand the soil, its types and the problems it is exposed to	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Water erosion in dry areas	The student should learn the concept of water erosion and its dangers in dry areas	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Wind erosion and its measurement	The student should study wind erosion and how it works, measure it, and reduce these risks.	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Regressions – Types, Problems and Measurement	The student should understand what the earth slopes are, their shapes, degrees, types, and risks.	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field	Quantitative Methods in Applied Geomorphology	The student should learn quantitative statistical methods in geomorphology	2	Eighth

Translation	Study				
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Rivers, their development and factors affecting water flow and discharge in river basins and dry valleys	The student should be aware of rivers and their geomorphological development and development.	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Morphometric variables of water networks	The student should learn the geomorphological changes of water networks	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Role of Applied Geomorphology in the Construction of Dams and Reservoirs	The student should understand the role of geomorphology in the construction of worms and reservoirs and the controls of their construction.	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Applied Geomorphology and Mineral Resources (Minerals – Petroleum)	The student should be aware of the role of applied geomorphology in the study and management of minerals or natural resources.	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Terrain and Engineering and Urban Project Planning	The student should learn what the terrain is and its role in the planning of engineering projects	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Geomorphology of drylands – Iraq	The student should understand what is the geomorphology of drylands – Iraq Model	2	Fourteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Applied Geomorphology and Artificial Intelligence	The student should be aware of the relationship between applied geomorphology and artificial intelligence	2	Fifteenth

11. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

12. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Khalaf Hussain Al-Dulaimi, Applied Geomorphology, Amman, Jordan, 2012. 2- Taghlib Zarzis Daoud, Applied Geomorphology, Al-Mustansiriya, 2002.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

13. Course Name	
Geographical Scientific Research Skills and Seminars	
14. Course Code	
EG501	
15. Semester/ Year	
you semester	
16. Date this description was prepared	
1/9/2025	
17. Available Forms of Attendance	
Weekly	
18. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
19. Course administrator name (if more than one name mentioned)	
Prof. Adnan Kazem Jabbar	
20. Course Objectives	
Introducing master's students to the skills and methods of geographical research with the intention of preparing them to write methodologically worthwhile geographical theses by providing them with modern skills and methods in this direction.	Course Objectives
21. Teaching and Learning Strategies	
Cognitive Objectives - Learn about the concept of scientific research and its importance in geographical studies. - Clarifying the characteristics of geographical scientific research and its various fields. - Distinguish between research methods used in geographical studies. - Knowing the steps of preparing geographical scientific research, starting from the selection of the topic to writing the results. Skills Goals Choosing an appropriate geographical research topic according to sound scientific foundations. ☐ Formulate the research problem, its questions and hypotheses in a systematic and accurate manner. - Collecting geographic data and information from primary and secondary sources. - Employing appropriate research methods in addressing geographical problems. Emotional or Values Goals Estimating the importance of scientific research in developing geographical knowledge and addressing societal problems. - Adheres to scientific research ethics and the principles of honesty and academic	Strategy

integrity. • Be objective and accurate when collecting, analyzing, and interpreting data. ☐ Values the value of scientific and methodological thinking in the study of geographical phenomena.	
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22. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The nature, philosophy and goals of geography	Analyze the nature of geography as a spatial and integrative science that studies the interrelationships between humans and the environment.	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Scientific Research Ethics and its Sources	Evaluate the ethical principles governing scientific research such as honesty, scientific honesty, objectivity, transparency, and academic responsibility.	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Concepts of Scientific Research in Physical and Human Geography	Analyze the concept of geographical scientific research , its characteristics, and its importance in the production of geographical knowledge.	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Scientific Foundations for Choosing Master's Subjects	Analyze the concept of choosing a scientific research topic and its importance in the success of university theses and the quality of scientific production.	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Collection of natural and human geographic information and its problems	Identify the types of geographical data (quantity, quality, spatial, temporal) and methods of obtaining them from different sources.	2	Fifth

Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Research Methods in Geography, Characteristics and Philosophy	Analyze the concept of geographical research methods and explain its historical and intellectual development in geographical studies.	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Samples and their types and identifying the statistical community in geographical research	Analyze the concept of the statistical community in geographical research and identify the units of spatial and human analysis associated with it.	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Samples of the field study (applied)	Analyzing the concept of field study in geography and explaining its role in the production of applied scientific knowledge.	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Statistical methods and how to use them in writing a thesis	Analyze the concept of statistical methods in geographical research and its role in supporting the scientific interpretation of spatial phenomena.	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Geographical Techniques and the Possibility of Employing them in the Thesis	Analyze the concept of modern geographical technologies and their role in the development of contemporary geographical research. Explain the importance of geographic information systems (GIS) in collecting and analyzing spatial data.	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Methods of Presentation and Analysis of Information Construction Methods, Graphs and Pictorial	Analysis of the concept of information presentation and analysis methods and their importance in contemporary geographical research. Integrating quantitative and qualitative analysis into the presentation of geographic	2	Eleventh

			information within scientific research.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Methods of documenting references in footnotes in a bibliography	Analyze the concept of scientific documentation of references and its importance in supporting the academic credibility of geographical research.	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Writing the final content of the message and getting rid of plagiarism	Evaluate the structure of the final thesis in terms of the interdependence between the chapters (theoretical framework, methodology, analysis, results, discussion). Apply strategies to reduce plagiarism through paraphrasing, summarizing, and critical analysis.	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Preparations for the day of discussion	Analyze the concept of scientific discussion of university theses and its objectives in evaluating the quality of scientific research. Analyzing the strengths and weaknesses of the scientific thesis in preparation for defending it and justifying methodological choices.	2	Fourteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Discussion of Students' Research		2	Fifteenth

23. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

24. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Linda Latad, et al., Scientific	Main References (Sources)

Research Methodology and Techniques in the Social Sciences, Arab Democratic Center, Berlin, 2019. 2- Yousri Al-Gohary, The Human Content of Geography, First Edition, Al-Raya Library and Press, 1999. 3- Hussein Sabri, The Skill of Scientific Research, First Edition, Dar Hamalil for Printing, Publishing and Distribution, 2015	
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

25. Course Name	Holistic climate
26. Course Code	EG505
27. Semester/ Year	you semester
28. Date this description was prepared	1/9/2025
29. Available Forms of Attendance	Weekly
30. Number of Hours (Total) / Number of Credits (Total)	30 Hours Hour
31. Course administrator name (if more than one name mentioned)	Prof. Dr. Rafed Abdel Nabi Ibrahim
32. Course Objectives	

Clarifying the general concepts of the holistic and kinetic climate, the importance of weather data, the importance of remote sensing in the study of the holistic climate, reading and analyzing weather and climatic maps, studying and analyzing the pressure levels and the basic controls controlling the gaseous atmosphere, clarifying the cells of the general circulation of the gaseous atmosphere, clarifying the concepts and reasons for the formation and impact of depressions, atmospheric heights, air masses, waves, fronts, pressure barrier, jet currents, Atlantic oscillations, El Niño phenomenon, jet currents, and the most prominent climatic effects on The world and Iraq.	Course Objectives
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33. Teaching and Learning Strategies

A. Cognitive Objectives A1- Understanding that the student understands the concept of the inclusive climate and its impact on human beings A2- Remembering the basic principles of the holistic climate A3- Knowing the difference between the inclusive and dynamic climate A4- b. Skill objectives of the course. B1- Manual skills through comprehensiveness mapping of different pressure levels B2- Technical skills through the use of devices in monitoring or knowing the duration of the survival and frequency of pressure system B3- Skills of analyzing different weather maps using modern techniques B4- C. Emotional and Values Goals A1- Self-awareness, emotion control, self-motivation and social skills	Strategy
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34. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Meeting with students with the distribution of curriculum vocabulary and research titles	Introduce students to the vocabulary of the subject and give titles to each student that includes the vocabulary of the inclusive climate	2	The first
Written Exam, Research	Lecture, questioning	The concept of holistic climate and	Introduce students to the concept of	2	The second

Requirement and Translation	and discussion	methods used in holistic research and holistic weather data	inclusive climate and understand the most prominent research methods used in inclusive climate		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Analysis of Weather and Comprehensive Maps	Introducing students to how to analyze holistic maps	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Basic controls controlling the gaseous atmosphere General-cycle cells of the gaseous atmosphere	Introduce students to the basic controls of the gaseous atmosphere and understand these controls and their causes	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The concept of heat reducers – the reasons for their emergence – their types – the thermal depressions affecting the climate of Iraq	Introducing students to the gaseous general cycle cells and understanding the cells of Hadley, Rosby and polarity	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Frontal depressions – their concept – their formation mechanism The theories that explained their formation – frontal depressions affecting the climate of Iraq	Introducing students to the concept of heat depressions, their types, and understanding their causes	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Atmospheric Heights - Its Concept, Stages of Formation and Factors Affecting It - Classification - The Most Prominent Heights Affecting Iraq's Climate	Introducing students to the concept of frontal depressions and understanding the reasons for their formation and their impact on Iraq's climate	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Air masses: their concept, classification, types, and the most prominent atmospheric heights	Introducing students to the concept of atmospheric heights and understanding the reasons for their	2	Eighth

		affecting Iraq's climate	formation and their impact on the climate of Iraq		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Air fronts are the concept of how they emerged, the most prominent fronts affecting Iraq's climate	Introduce students to the concept of air masses and understand the reasons for their occurrence	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Air stagnation - the role of stagnation in the emergence of air fronts - characteristics of air stagnation affecting Iraq's climate The concept of grooves and dents and their formation mechanism	Introducing students to the concept of air masses and their types, understanding the reasons for their formation and geographical distribution	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Semester Exam	Students' knowledge and understanding of the concept of air stagnation and its causes and impact on Iraq's climate	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The concept of the pressure barrier and the history of its study Causes and types of pressure barrier Climatic effects of the barrier – the geographical distribution of the pressure barrier	Knowledge and understanding of the concept of jet streams and identifying their causes and impact on Iraq's climate	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Jet Currents: Their Concept, How They Arise, and Their Types – Polar, Suborbital and Orbital Jet Currents	Knowledge and Evaluation of Exam Results	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	El Niño Southern Oscillation Causes and Climatic Effects	Understanding the Concept of Pressure Barrier and Understanding the Causes of Its Occurrence and Identifying its Types	2	Fourteenth
Written Exam,	Lecture,	North Atlantic	Students' knowledge	2	Fifteenth

Research Requirement and Translation	questioning and discussion	Vibration and Research Discussion	and understanding of the concept of El Niño phenomenon and identifying its causes and climatic effects		
35. Course Evaluation					
Oral Tests Written Tests Reporting, Research & Translation					
36. Learning and Teaching Resources					
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program			Required Textbooks (Methodology, if any)		
1- Holistic Climate, Salar Ali Khudair 2- The Inclusive Climate, Kazem Abdulwahab Al-Asadi and Ali Abd Al-Abbas 3- Holistic Climate , Qusay Abdul Majeed Al-Samarrai			Main References (Sources)		
			Recommended books and references (scientific journals, reports...)		
			Electronic References, Websites		

Course Description Form

37. Course Name

English					
38. Course Code					
EG506					
39. Semester/ Year					
you semester					
40. Date this description was prepared					
1/9/2025					
41. Available Forms of Attendance					
Weekly					
42. Number of Hours (Total) / Number of Credits (Total)					
30 Hours Hour					
43. Course administrator name (if more than one name mentioned)					
Eng. Salam Abbas Mahmoud					
44. Course Objectives					
Clarify general concepts in geography in English, knowledge of translation methods and the use of sources, as well as ways of addressing English speakers as the first universal language.					Course Objectives
45. Teaching and Learning Strategies					
A. Cognitive Objectives A1. Familiarize yourself with the basics of the English language related to academic subjects. A2. Master the use of question tools and methods of answering questions correctly A3. Distinction between standard and anomalous verbs A4. Analysis of texts and understanding their content b. Skill objectives of the course. B1. Ability to translate texts B2. Use of different questioning tools B3- Correcting linguistic errors in relation to the study topics B4- Maintaining linguistic dictation C. Emotional and Values Goals C1- Developing the student's skill in the English language, which enhances his scientific potential. C2- Highlighting the linguistic identity of the student through the development of the four skills					Strategy
46. Course Structure					
Evaluation	Learning	Unit Name or	Required	Watches	The

Method	method	Subject	Learning Outcomes		week
Personal observation and written test	Reading emails and passages	International student	To be able to answer and respond correctly	2	The first
Reading fluency	Reading Comprehension	Effective Reading	To develop good reading skills	2	The second
Writing a composition	Writing strategies	A Host Family	To improve writing skills	2	The third
Personal observation and written test	Reading emails and passages	Where in the world	To be able to answer and respond correctly	2	Fourth
Writing a composition	Writing strategies	My country	To improve writing skills	2	Fifth
Reading fluency	Reading Comprehension	News Articles	To develop good reading skills	2	Sixth
Writing a composition	Writing strategies	Mistaken identity	To be able to answer and respond correctly	2	Seventh
Reading fluency	Reading Comprehension	Modern technology	To develop good reading skills	2	Eighth
Reading fluency	Reading fluency	Conferences and visits	To be able to answer and respond correctly	2	Ninth
Writing a composition	Writing strategies	Invitations	To improve writing skills	2	Tenth
Listening skill	Listening	Moving on	To develop listening and speaking skills	2	Eleventh
Speaking skill	Speaking	Introduction	To be able to answer and respond correctly	2	XII
Listening skills	Listening	Island states	To develop listening and speaking skills	2	Thirteenth
Speaking skills	Speaking	Talking about countries	To be able to answer and respond correctly	2	Fourteenth
Speaking skills	Speaking	Careers in the media	To develop listening and speaking skills	2	Fifteenth

47. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

48. Learning and Teaching Resources

Academic skills level 2	Required Textbooks (Methodology, if any)
	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

49. Course Name	
Contemporary Population Studies	
50. Course Code	
EG503	
51. Semester/ Year	
you semester	
52. Date this description was prepared	
1/9/2025	
53. Available Forms of Attendance	
Weekly	
54. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
55. Course administrator name (if more than one name mentioned)	
Assoc. Prof. Dr. Aqeel Kazim Wali	
56. Course Objectives	
Uncovering the contemporary population issues, population growth, scientific opinions related to it, and population problems related to it, and following up on the changes that occur on the world demographic map, their causes, and the impact of geographical phenomena on them.	Course Objectives
57. Teaching and Learning Strategies	
A. Cognitive Objectives A-1 - Knowledge of population concepts and philosophical backgrounds of each of them, and the principles of demography and demography A-2 - Providing the student with scientific vocabulary and training in the analysis and interpretation of demographic geographical phenomena A.3. Study of population problems related to growth, migration, and other demographic characteristics. A-4 - Identifying the various demographic characteristics and the scientific theories related to them.	Strategy

b. Skill objectives of the course. B1- The use of modern techniques in mapping and graphs related population data and employing them in interpreting population characteristics. B-2 – Distribution of population density areas on the map, analysis and conclusion of comparisons between them. B-3- Knowledge of statistical analysis programs and their graphical forms. B-4 – Using mathematical equations and drawing their population tables. C. Emotional and Values Goals C.1. Consolidation of national identity and national belonging C-2- Increasing students' knowledge of the demographic composition and multiculturalism and their importance in building nations. C-3- Belief in the ability of God Almighty to increase the size of the population and create environmental balance.	
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58. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Vocabulary of the Subject, Concepts and Methods of Population Studies and Data Sources in it	Knowledge of the vocabulary of the subject, the concepts and methods of population studies and the data sources in it.	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical distribution of the population (types, measures , factors affecting it, patterns, problems caused by it)	Uncover the map of the geographical distribution of the world's population and its associated characteristics	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The composition of the population is understood and its types (age, qualitative, environmental, economic, educational, religious, marital...)	Understanding the composition of the population and its multiple types	2	The third
Written Exam	Lecture,	Population fertility	Knowledge of the	2	Fourth

, Research Requirement and Translation	questioning and discussion	(concept, methods of measurement, factors affecting it, patterns)	reality of population fertility and knowledge (its concept, methods of measurement, factors affecting it, and its patterns)		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Population Growth (Concept, Measures, and Theories)	Knowledge of population growth and (its concept, measures, and theories)	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Mortality (its scales, factors influencing it)	Definition of Deaths and (their Measures, and Factors Affecting them)	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Spatial movement (migration) of the population (its concept, types, methods of measurement, causes, factors affecting it, and its implications)	Understanding the spatial movement (migration) of the population (its concept, types, methods of measurement, causes, factors affecting it, and its implications)	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Population policy (its concept, types, principles, objectives)	Introduction to population policy (its concept, types, principles, and objectives)	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Population (natural) theories	Knowledge of (natural) population theories	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Population Theories (Economic, Social)	Knowledge of population theories (economic, social)	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Population Problem and Its Dimensions (Economic, Social)	Study of the population problem and its dimensions (economic, social)	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Urban Growth: Its Causes and Problems	Introducing urban growth, its causes and the problems that arise from it	2	XII

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The problem of food security (its concept, causes, manifestations, implications, solutions)	Knowledge of the food security problem (its concept, causes, manifestations, implications, solutions),	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Problem of the Water Crisis and its Impact on the Population (The Marshes of Southern Iraq as a Model)	Knowing the problem of the water crisis and its impact on the population in the marshes of southern Iraq as a model.	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Impact of Population Growth on Environmental Pollution and Global Warming	Knowing the Impact of Population Growth on Environmental Pollution and Global Warming	2	Fifteenth

59. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

60. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Fathi Abu Ayana, Population Geography: Foundations and Applications, 4th Edition, Dar Al-Maarifa University, Alexandria, 1993. . 2- Abbas Fadel Al-Saadi, Geography of Population, Vol. 1 and No. 2, 2000 . 3- Ahmed Ali Ismail, Foundations of Demography, 8th Edition, Dar Al-Thaqafa, Cairo, 1997. 4- Abd Ali Al-Khafaf, Geography of Population: General Foundations, 2nd Edition, Dar Al-Fikr for Printing, Publishing and Distribution, Amman , 2007. 5- Taha Hammadi Al-Hadithi, Geography of Population, 3rd Edition , University of Mosul, 2011.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

61.	Course Name	
	City morphology	
62.	Course Code	
	EG502	
63.	Semester/ Year	
	you semester	
64.	Date this description was prepared	
	1/9/2025	
65.	Available Forms of Attendance	
	Weekly	
66.	Number of Hours (Total) / Number of Credits (Total)	
	30 Hours Hour	
67.	Course administrator name (if more than one name mentioned)	
	Prof. Dr. Yahya Abdel Hassan Falih	
68.	Course Objectives	
	• The course aims to: • 1. Understand what the morphology of the city is. • 2. Analyze and interpret the spatial relationships between the elements of the city's morphology. • 3. Assess the environmental impact resulting from the interactions of the elements of the city's morphology.	Course Objectives

- 4. Development potential and sustainable development of the elements of the city's morphology

69. Teaching and Learning Strategies

A. Cognitive Objectives A1. Understanding the Morphology of the City A2- Knowing the morphological elements of the city A3- Analysis of geographical factors affecting the morphology of the city A4- Introduction to the Sustainable City, Green City and Smart City b. Skill objectives of the course. B1- Teamwork in drawing the mental map to form the elements of the city B2- Describing the morphology of some cities through field study B3- C. Emotional and Values Goals A1- Imagining the spiritual value of the authenticity of the urban heritage A2- Knowing the depth of values that the city carries within its folds C3-	Strategy
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70. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The urban phenomenon (city), its concept, its characteristics, the concept of the morphology of the city	The student should know the concepts of the city and the morphology of the city	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Elements of the city's morphology (city plan , urban fabric)	The student should identify the elements of the city's morphology	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Elements of the city's morphology (urban land uses) and the dynamics of the relationship between them	The student should understand the relationship between the elements of the city's	2	The third

			morphology		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Urbanization and their role in shaping the morphology of the city.	The student should know the role of urbanization and urbanism in shaping the elements of the city's morphology.	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Theories of the Internal Structure of Cities.	The student should explain the theories of the internal structure of cities	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical Factors Affecting the Morphology of the City	The student should analyze the geographical factors affecting the morphology of the city.	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Sustainable City, Smart City and the Uses of Artificial Intelligence	The student should know the concepts of the sustainable city and the smart city	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Basic Plan and Urban Land Use Map	The student must distinguish between the basic plan and the urban land use map.	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Urban heritage; its morphological characteristics, the problems facing it, and ways to protect it.	The student should be aware of the value of the urban heritage	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Relationship between the City and its Region (Urban System)	The student should explain the relationship between the city and its region	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Social characteristics of the inhabitants of the city and its region (urban development	The student should analyze the social characteristics	2	Eleventh

		and rural urbanization)	of the residents of the city and its region		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	A comparison between the morphology of the western city and the Arab city.	The student should compare the morphology of the western city with the Arab city	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Examples of problems facing city formation and organization (population growth, slums)	The student should address the problems facing the formation of the city	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical concepts related to the city and its morphology (function and use, activities and events)	The student should know the concepts (job and use, activities and events)	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Overview		2	Fifteenth

71. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

72. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Sabri Fares Al-Hiti, Geography of Cities. 2- Othman Muhammad Ghoneim, Geography of Cities. 3- Jamal Hamdan, Geography of Cities.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

73. Course Name	
	Recent Trends in Geopolitics
74. Course Code	
	EG507
75. Semester/ Year	
	you semester
76. Date this description was prepared	
	1/9/2025
77. Available Forms of Attendance	
	Weekly
78. Number of Hours (Total) / Number of Credits (Total)	
	30 Hours Hour

79. Course administrator name (if more than one name mentioned)					
Prof. Dr. Latif Kamel Kidney					
80. Course Objectives					
Revealing the nature of modern geopolitical issues and their repercussions on the power of the state and the structure of its political entity, as well as following up on the changes that occur on the political map of the world, not to mention revealing the role of geographical capabilities in drawing the external behavior of actors in the system of international relations.				Course Objectives	
81. Teaching and Learning Strategies					
A. Cognitive Objectives A1. Identify what geopolitics is A2. Mastery of the use of concepts specific to geopolitics A3. Distinction between modern geopolitics A4. Analysis of the structure of international relations b. Skill objectives of the course. B1. Understand geopolitics B2. Use of Course-Specific Semantics in Geopolitical Analysis B3. Correcting theories about the interpretation of international interactions B4. Make the student understand the modern trends in geopolitics C. Emotional and Values Goals A1. Appreciation of the importance of international cooperation C2. Respect for cultural and diplomatic diversity C3- Sense of global and humanitarian responsibility					Strategy
82. Course Structure					
Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Concept of Political Geography: What It Is and Its Related Concepts	Make the student know the concept of political geography: what it is and the concepts associated with it.	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Corrosive Democracy: Its Concept and Geopolitical Applications	Make the student know the concept of democracy	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Polarization and its geopolitical applications	Make the student know the concept of polarization	2	The third

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Authoritarian Technocracy and Digital Tyranny	Make the student know the concept of authoritarian technocracy	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Digital Citizenship and its Geopolitical Applications	Making the student know the concept of digital citizenship	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geopolitics Economic Identity	Making the student know the concept of economic identity	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The War of Narratives and Its Geopolitical Applications	Make the student know the concept of narrative warfare	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Security of Economic Value and its Geopolitical Applications	Making the student aware of the concept of economic value security	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Technological nationalism and its geopolitical applications	Making the student know the concept of technological nationalism	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The War of Economic Subsidies and Its Geopolitical Applications	Making the student know the concept of the economic subsidy war	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Acute force and its geopolitical applications	Make the student know the concept of sharp force	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Digital Geopolitics Foundations and Applications	Making the student aware of the concept of digital geopolitics	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Circular economy geopolitics	Make the student know the concept of the circular economy	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Age of Geopolitical Anxiety	Make the student know the concept of geopolitical concern	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Space Security and its Geostrategic Applications	Make the student know the concept of space security and its geostrategic applications	2	Fifteenth

83. Course Evaluation

Oral Tests Written Tests Reporting, Research & Translation	
84. Learning and Teaching Resources	
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Klaus Dodds and David Atkinson, Political Geography in One Hundred Years of Global Geopolitical Development, Part 1. 2- Tim Marshall, How Geography Shapes the Fate of Nations, 2021.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

85. Course Name	
Water Resources	
86. Course Code	
EG512	
87. Semester/ Year	
you semester	
88. Date this description was prepared	
19/1/2026	
89. Available Forms of Attendance	
Weekly	
90. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
91. Course administrator name (if more than one name mentioned)	
Prof. Dr. Adnan Odeh Falih	
92. Course Objectives	
The course aims to make students able to know what is hydrological water resources, its branches, its importance and its impact on people's lives, and to identify the importance of water resources in all directions.	Course Objectives
93. Teaching and Learning Strategies	
B- Knowledge Objectives : A1- Remember: The student should mention the basic principles of the geography of water resources . A2- Understanding: The student should explain the difference between water resources and hydrology . A3- Application: The student should learn to apply the determinants of water resources. A4- Analysis: The student should analyze the reasons for the deterioration of water resources . b. Skill objectives of the course. B1- Manual/Practical Skills: The student should learn to collect and examine water samples. B2- Technical skills: The student should learn a simple application such as knowledge of quarterly water drainage.	Strategy

B3- Communication Skills: The student should give an effective presentation on a topic of water . B4- Motor Skills: The student should apply spatial projections using GPS. C. Emotional and Values Goals : A1- Interest: The student should actively participate in the class discussions . A2- Grade: The student should appreciate the value of cultural diversity in the work environment. A3- Commitment: The student must adhere to the ethics of scientific research and scientific honesty. A4- Directions: The student should show enthusiasm in solving water issues such as the water drought crisis .	
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94. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Hydrological Cycle	Knowledge of the hydrological cycle and its associated concepts	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Types of rainfall	The student should understand the types of rainfall	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Marine coast shapes	Learn the shapes of the seacoasts	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Seabed topography	The student should understand the nature of the seabed topography	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Rivers and their geomorphological discharges	The student should understand the rivers and their geomorphological secretions	2	Fifth

Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Surface water problems	The student should be aware of surface water problems	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Ports and Ports	Learn the patterns of ports and ports	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Marine Resources	To understand the importance of marine resources	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Hurricanes and Marine Currents	Understand the risks of hurricanes and sea currents	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Wildlife	Understanding wildlife	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Regional and International Waters	The student should learn the characteristics of regional and international waters	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Groundwater and Groundwater	Understand the nature of the physical and chemical properties of groundwater	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Theories of the formation of marshes	To understand the structure and function of marsh waters and theories of their formation	2	Thirteenth
Written Exam, Research Requirement and	Lecture, questioning and	Passages and Marine Channels	The student should be aware of the importance of sea lanes and	2	Fourteenth

Translation	discussion		canals		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Exam		2	Fifteenth

95. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

96. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
Geography of Water Resources. Hassan Abu Samour Geography of Contemporary Water Resources Abdel Fattah Siddiq	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

97. Course Name	
Urban Development	
98. Course Code	
EG511	
99. Semester/ Year	
you semester	
100. Date this description was prepared	
19/1/2026	
101. Available Forms of Attendance	
Weekly	
102. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
103. Course administrator name (if more than one name mentioned)	
Prof. Dr. Maher Nasser Abdullah	
104. Course Objectives	
This course for the first semester aims to study the concept of development in general and urban development in particular, and to know the history of development development, what are the research methods in it, and what are its most important indicators).	Course Objectives
105. Teaching and Learning Strategies	
A. Cognitive Objectives A1. Understanding and developing the theoretical thought explaining the growth of cities and the development of their structure. A2. Ability to diagnose the structural causes of contemporary urban	Strategy

problems A3. Employing modern techniques and quantitative methods in studying the trends of urbanization. A4. Building future visions to evaluate the basic plans and provide flexible development alternatives b. Skill objectives of the course. B1. Use of GIS and Remote Sensing to Model Urbanization B2. Formulate basic plans and urban development strategies to address imbalances B3. Design and performance of field observations, questionnaires, and interviews to collect and analyze data. B4. Prepare impact assessment reports and draft policy papers for planning entities. C. Emotional and Values Goals C1- Developing environmental awareness and sustainable responsibility C2- Consolidating the values of social and spatial justice C3- Estimating the Urban Identity and Local Privacy	
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106. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Overview of Urban Land Use	General knowledge of land uses	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The concept of development, the history of its development, and the difference between it and development	Understanding the concept of development and its history	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The concept of urban development, its objectives and characteristics	Knowledge of the concept and characteristics of development	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban Environment and Urban Degradation	Identify the Urban Environment and Urban Degradation	2	Fourth
Written Exam,	Lecture,	Urban Renewal and	Knowing what	2	Fifth

Research Requirement and Translation	questioning and discussion	Urban Development Indicators	are the indicators of urban development		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Community Indicators, Educational-Health-Recreational	Identify societal indicators	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Infrastructure Indicators- Water0Electricity-Sanitation	Find out what infrastructure indicators are	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Population Indicators - Housing Disability Concept and Causes	Identifying Housing Disability Indicators	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Environmental Indicators – Percentage of Treated Water – Waste Disposal	Knowledge of environmental indicators and waste disposal	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Visual Pollution	Knowing what is visual pollution	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Economic Indicators – Urban Poverty	Identify Economic Indicators	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Unemployment - Smart Cities	Knowledge of Smart Cities and Unemployment	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban Rehabilitation – Urban Resilience	Recognize Urban Rehabilitation and Urban Resilience	2	Thirteenth
Written Exam, Research Requirement and	Lecture, questioning and	Urban and Spatial Development Policies in Iraq	Knowledge of Urban and Spatial Development	2	Fourteenth

Translation	discussion		Policies		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	International Experiences in Urban Development	Recognize International Experiences in Urban Development	2	Fifteenth
107. Course Evaluation					
Oral Tests Written Tests Reporting, Research & Translation					
108. Learning and Teaching Resources					
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		Required Textbooks (Methodology, if any)			
1- 1- Fouad Bin Ghadban, Sustainable Cities and Urban Project, Safaa Publishing and Distribution House, Amman, 2014. 2-Khalaf Hussain Al-Dulaimi, Thaer Shaker Al-Hiti, Urban Management Strategies, Safaa Publishing and Distribution-Amman, 2018.		Main References (Sources)			
		Recommended books and references (scientific journals, reports...)			
		Electronic References, Websites			

Course Description Form

109. Course Name	
Ecosystems	
110. Course Code	
EG510	
111. Semester/ Year	
you semester	
112. Date this description was prepared	
19/1/2026	
113. Available Forms of Attendance	
Weekly	
114. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
115. Course administrator name (if more than one name mentioned)	
Prof. Dr. Anwar Sabah Mohamed	
116. Course Objectives	
The course aims to introduce the most important natural and human geographical factors that stand behind the problems facing ecosystems, analyze the dimensions of these problems spatially and temporally, and identify modern ways to address them and reduce their effects on the vital community of those ecosystems, such as the water, aerospace, rock, food systems, and biosystems.	Course Objectives
117. Teaching and Learning Strategies	

C- Knowledge Objectives : A1- Remember: The student should mention the basic principles of environmental geography . A2- Understanding: The student should explain the difference between the environment and the ecosystem. A3- Application: The student should learn to apply environmental determinants. A4- Analysis: The student should analyze the causes of the environmental problem such as the Chernobyl accident in 1986. b. Skill objectives of the course. B1- Manual/Practical Skills: The student should learn to collect and examine samples. B2- Technical skills: The student should learn a simple application such as a noise meter . B3- Communication Skills: The student should give an effective presentation on an environmental topic. B4- Motor Skills: The student should apply spatial projections using GPS. C. Emotional and Values Goals : A1- Interest: The student should actively participate in the class discussions . A2- Grade: The student should appreciate the value of cultural diversity in the work environment. A3- Commitment: The student must adhere to the ethics of scientific research and scientific honesty. A4- Directions: The student should show enthusiasm in solving environmental issues such as the problem of pollution .	Strategy
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118. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	General lecture on geography, environment and the main vocabulary of the subject	Knowledge of the student ecology and related concepts	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The concept of ecology, ecology, ecosystem, environmental problem and its types, and the relationship of the environment to	The student should understand the elements of the ecosystem	2	The second

		geography	and its balance mechanism.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The problem of pollution and disruption of the ecosystem	To learn this problem and the factors that disturb the environmental balance	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Air Quality System with Application to Iraq	The student should understand the air quality indicators	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Water Quality System with Application to Iraq	The student should understand the water quality standards and requirements	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Soil Ecosystem and its Degradation Factors with Application to Iraq	The student should be aware of the nature of the factors causing soil degradation	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Noise problem with an app on Iraq	Learn the environmental evolution of noise	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Semester exam		2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Solid waste and its impact on environmental systems (with emphasis on Iraq)	The student should understand the environmental impacts of solid waste	2	Ninth
Written Exam, Research Requirement and	Lecture, questioning and	Environmental Disasters and Their Effects on Environmental Systems	Understanding the problem and its effects on the Iraqi	2	Tenth

Translation	discussion	(with Emphasis on Iraq)	environment		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Slums and the Degradation of Environmental Systems with an Application to Iraq	The student should learn the characteristics of the problem of slums and its consequences	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Nature Reserves and Their Role in Environmental Balance with an Application to Iraq	To understand the nature and importance of nature reserves	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Depletion of natural resources and their impact on ecosystems with an application to Iraq	Understand the structure and function of resources and their depletion factors	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Environmental awareness and its role in preserving ecosystems (with emphasis on Iraq)	The student should be aware of the importance of this topic and its impact on the environment	2	Fourteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Discussion of students' activities at the end of the course		2	Fifteenth

119. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

120. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Haitham Ahmed, Hassan Shehab, Ecology - The Theoretical Part, Directorate of Books and Government Publications, Syria, Damascus, 2006. 2- Adnan Yassin Muhammad Al-Quraishi,	Main References (Sources)

Fundamentals of Environmental Pollution, Dar Al-Kitab Al-Thaqafi, Jordan, 2021.	
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

121. Course Name	
	English
122. Course Code	
EG517	
123. Semester/ Year	

you semester	
124. Date this description was prepared	
19/1/2026	
125. Available Forms of Attendance	
Weekly	
126. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
127. Course administrator name (if more than one name mentioned)	
Prof. Omar Raouf Abboud	
128. Course Objectives	
The English language course for master's students aims to enhance advanced academic skills, focus on the language of scientific research, analyze specialized texts (literature or linguistics), and develop critical and analytical skills. The course covers contemporary issues such as technologies in education, semantics, advanced grammar, and scientific research mechanisms, with the aim of preparing graduates capable of producing knowledge in English.	Course Objectives
129. Teaching and Learning Strategies	
A. Cognitive Objectives The Cognitive Objectives of English for Master of Geography students vary to cover the upper levels of Bloom's Taxonomy. These levels aim to enable the researcher to assimilate and criticize the global geographical literature accurately. b. Skill objectives of the course. The Psycho-motor / Skill-based Objectives of the English Language Course for Master Geography students aim to transform theoretical knowledge and terminology into applied and practical skills. These skills enable the researcher to deal with knowledge sources, modern technologies, and scientific production efficiently. C. Emotional and Values Goals The Affective & Value-based Objectives in this course aim to form positive attitudes and behaviors in the Master's student. These objectives help the researcher to sense the importance of the English language as a global communication tool for the development of geographical thought, while adhering to the ethics of scientific research and intellectual honesty.	Strategy
130. Course Structure	

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Personal observation and written test	Reading emails and passages	Science and Our World	critically analyze and communicate global environmental and scientific issues using advanced academic English.	2	The first
Reading fluency	Reading Comprehension	Air pollution	analyze and communicate spatial data and global research on air pollution using advanced academic English.	2	The second
Writing a composition	Writing strategies	School Dinner Scandal	analyze and communicate the spatial, socio-economic, and political impacts of global school dinner scandals using advanced academic English.	2	The third
Personal observation and written test	Reading emails and passages	Scientists on the decline	analyze and communicate the spatial, demographic, and socio-economic implications of the global decline in scientific researchers using advanced academic English.	2	Fourth
Writing a composition	Writing strategies	Words that go together	students will be able to master and accurately deploy academic English collocations and specialized geographical phraseology within their research domain.	2	Fifth
Reading fluency	Reading Comprehension	Monthly Exam		2	Sixth
Writing a composition	Writing strategies	People Past and Present	analyze and communicate the spatial, demographic, and historical dimensions of human populations and cultural landscapes using advanced academic English.	2	Seventh
Reading fluency	Reading Comprehension	Information on the net	students will be able to critically evaluate and synthesize online digital data, spatial databases, and open-source internet research using advanced academic English.	2	Eighth
Reading fluency	Reading fluency	Writing Biographies	students will be able to synthesize and communicate the life histories, academic contributions, and spatial theories of influential geographers using advanced academic English.	2	Ninth
Writing a composition	Writing strategies	Organizing vocabulary	students will be able to categorize, map, and systematically structure specialized geographical vocabulary to enhance clarity and precision in academic research.	2	Tenth
Listening skill	Listening	Monthly Exam		2	Eleventh
Speaking skill	Speaking	Computers under attack	analyze and communicate the spatial impacts, geopolitical risks, and digital vulnerabilities of	2	XII

			cyberattacks on critical geospatial infrastructure using advanced academic English.		
Listening skills	Listening	Crediting sources	students will be able to apply international academic citation standards to credit sources accurately and avoid plagiarism within their spatial and environmental research.	2	Thirteenth
Speaking skills	Speaking	Inventions, discoveries, and processes	analyze and communicate the spatial diffusion, historical evolution, and environmental impacts of key scientific inventions, discoveries, and processes using advanced academic English.	2	Fourteenth
Speaking skills	Speaking	How things are made	analyze and communicate the spatial distribution, global supply chains, and environmental footprints involved in manufacturing processes using advanced academic English.	2	Fifteenth

131. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

132. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
Headway Academic Skills level 2	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

133. Course Name	
Renewables	
134. Course Code	
EG515	
135. Semester/ Year	
you semester	
136. Date this description was prepared	
18/1/2026	
137. Available Forms of Attendance	
Weekly	
138. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
139. Course administrator name (if more than one name mentioned)	
Assoc. Prof. Dr. Jassim and Hawah Shati	
140. Course Objectives	
This course, which is dedicated to the second semester, aims to study renewable energy sources within the geography of energy by reviewing their nature, characteristics, and modern scientific trends in the study of the sustainability of renewable energy, and the search for solutions for the use of clean energy and the scientific addition achieved from its study.	Course Objectives
141. Teaching and Learning Strategies	
A. Cognitive Objectives A1- The student should analyze the mechanism of work of each of the renewable energy sources. A2- Comparison of the types of renewable energies and the possibility of their investment A3. Environmental Impact Assessment of Renewable Energy Projects A4. Propose innovative solutions that contribute to addressing the	Strategy

problems facing renewable energy investment B. Skill Objectives of the Course B1- Describe and analyze the types of renewable energies, predict them, and provide sustainable spatial solutions. B2. Application of some mathematical equations and quantitative calculation of renewable energy efficiency B3- Calculating the economic feasibility of renewable energy projects and linking them to sustainable development B4. Ability to produce appropriate spatial maps for the production of renewable energy projects B5. Use specialized software to simulate renewable energy system and evaluate their performance. C. Emotional and Values Goals A1- Estimating the environmental advantages of clean energy and valuing its positive role C2- Building the philosophical and ethical identity of the researcher and directing scientific research towards serving the community and the environment C3- Adopting a vision that supports the national development plan for the adoption of renewable energy and the reduction of fossil fuels C4- Consolidating scientific honesty in presenting energy data and avoiding undisciplined research behaviors	
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142. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Renewable Energy: Characteristics and Types	The student should know the types of renewable energy, its advantages and differences from conventional energy, and link its spatial and planning characteristics	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Stages of the historical development of renewables	The student understands the philosophy of transformation and its causes and the transition from primitive uses of renewable energy to its current uses	2	The second
Written Exam , Research Requirement	Lecture, questioning and	Geographical Components of Renewable	Enabling the student to link the natural and human characteristics of	2	The third

and Translation	discussion	Energy Projects	the place to the efficiency and feasibility of clean energy projects, and to transform geographical assessment as a basis for planning.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Requirements for renewable energy projects	Enable the student to geographically assess the place and identify the basic needs and requirements of the renewable energy project	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Solar Energy and its Investment Methods	Prepare a student capable of designing and evaluating solar energy projects geographically and economically and knowing the feasibility of serving development plans and sustainable energy transition.	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Wind Energy: Its Advantages and Ways of Investing	Preparing a student who has the capabilities to know wind energy and determine the economic and environmental feasibility of establishing fields for its production	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geothermal Energy	Enable the student to understand the characteristics of the earth's energy, evaluate the geographical indications for the localization of this resource, and determine the mechanisms of its investment environmentally and economically.	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Bioenergy	Enable the student to understand the mechanisms of converting organic matter into energy, evaluating them geographically and environmentally, and balancing energy production, food	2	Eighth

			security, and agricultural sustainability.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Hydropower	Enable the student to understand the dynamics of hydropower and evaluate the geomorphological and hydrological components of the localization of hydropower plants.	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Integration of renewable energy with fossil energy	With the student's raffle how to integrate clean energy systems with conventional fuels to ensure electricity continues while reducing carbon emissions	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Relationship between Renewable Energy and Sustainable Development	The student understands how clean energy can be the main driver of the dimensions of sustainable development and harnessing geography to conserve renewable energy resources.	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Role of Artificial Intelligence and Technologies in Renewable Energy Investment	Enable students to understand how algorithms, programming, and big data contribute to addressing renewable energy problems and turning them into a sustainable and reliable resource?	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Role of Renewable Energy in Preserving the Environment	The student was able to assess the environmental impact of renewable energy and balance that with local environmental challenges, shifting from the theoretical side to viable solutions	2	Thirteenth
Written Exam , Research Requirement and	Lecture, questioning and discussion	The most important problems facing the use	Knowledge of the student's diagnosis and analysis of renewable energy problems and	2	Fourteenth

Translation		of renewable energy	proposing solutions to address them through employment technology and spatial techniques		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The possibility of implementing some renewable energy projects in Muthanna Governorate	To provide the researcher with the skill of preparing an integrated geographical and spatial feasibility study that accurately determines the suitability of this selected place for renewable energy investment.	2	Fifteenth

143. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

144. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Vladimir Kartsev, Pyotr Khazanovsky, translated by: Muhammad Al-Zayat, Thousands of Years of Energy, 1st Edition, 2005. 2- Mohamed Rafat, Ali Jamaan, Renewable Energy, 2nd Edition, 1998.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

145. Course Name	
Learning Theories	
146. Course Code	
EG508	
147. Semester/ Year	
you semester	
148. Date this description was prepared	
18/1/2026	
149. Available Forms of Attendance	
Weekly	
150. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
151. Course administrator name (if more than one name mentioned)	
Prof. Dr. Karim Abis Abu Halil	
152. Course Objectives	
This course, which is dedicated to the second semester, aims to study the educational trends that have been brought by the theories of learning according to the educational opinions adopted by educators specialized in education and psychology for the purpose of developing effective teaching plans that are based on the learner's activity, taking into account the experiences and level of maturity of the learner to reach the desired goals of the educational process, which creates a generation that adopts scientific methods to reach its goal by adopting methods, methods, strategies and educational models based on the activities that the learner originates in When the teacher's role is to guide and guide)	Course Objectives
153. Teaching and Learning Strategies	
A. Cognitive Objectives 1. To know the concept of the theory and its components 2. Clarify the educational hypotheses adopted by those theories. 3. Explain the concepts of education in the design of educational systems . 4. Distinguish between traditional and modern methods of teaching . b. Skill objectives of the course.	Strategy

1. Employ educational applications of learning theories in teaching . 2. To use the concepts of learning theories in teaching . 3. Apply modern pedagogical methods of learning theories in teaching. 4. Prepare reports or scientific presentations that illustrate the results of students' understanding of the theories of learning. C. Emotional and Values Goals 1. The student should show interest in following up on the modern educational methods of learning theories in teaching. 2. The applicant must adhere to the practical educational applications of learning theories in teaching. 3. Recognize the importance of the optimal use of learning theories concepts in teaching.	
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154. Course Structure					
Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Educational Concepts + Introduction to Theories, Types and Importance Pedagogically	To know the concepts of learning, teaching and to clarify teaching strategies.	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	My theory is the classical condition of Educator Pavlov	To know the concept of education theories Clarify the objectives of the theories of education	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Educator Skinner's Procedural Conditioning Theory	Knowledge of the concept of learning theory and its components.	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The theory of trial and error by educator Thor Ndayek	To know the concepts of the theory Apply the concepts of theory in teaching.	2	Fourth
Written Exam , Research Requirement	Lecture, questioning and discussion	Educator Köhler's Theory of Cognitive Learning	To know the concepts of the theory Apply the concepts	2	Fifth

and Translation			of theory in teaching.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Theory of Meaningful Learning for Educator Özbel	To know the concepts of the theory Apply the concepts of theory in teaching.	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Cognitive Theory of Educator Bruner	To know the concepts of the theory Apply the concepts of theory in teaching.	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The theory of learning stages for educator Janier	To know the concepts of the theory To employ the concepts of theory in teaching.	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Theory of Analysis of the Educational Work of the Pedagogy of Piaget	To know the concepts of the theory To employ the concepts of theory in teaching.	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	For the educator where the biosphere theory	To know the concepts of the theory To employ the concepts of theory in teaching.	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Pandora's Social Learning Theory	To know the concepts of the theory To employ the concepts of theory in teaching.	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Learning theory by the ability to respond differently to the tutor	To know the concepts of the theory Apply the concepts of theory in teaching.	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	An Evaluation Dialogue on the Extent of Applying Theories in Teaching	To know the concepts of the theory To employ the concepts of theory in teaching.	2	Thirteenth
Written	Lecture,	Building		2	Fourteenth

Exam , Research Requirement and Translation	questioning and discussion	Teaching Plans as Employed by Learning Theories Practical Lecture	To know the concepts of the theory Apply the concepts of theory in teaching.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	End of course exam	To know the concepts of the theory Apply the concepts of theories in teaching.	2	Fifteenth

155. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

156. Learning and Teaching Resources

Learning Theories by Dr. Ahmed Zaki Saleh, Ain Shams University, 1983	Required Textbooks (Methodology, if any)
Al-Zaghoul, Emad of Learning Theories, Dar Al-Shorouk, Amman, Jordan, 2003	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

157. Course Name	
Cybersecurity geopolitics	
158. Course Code	
EG516	
159. Semester/ Year	
you semester	
160. Date this description was prepared	
19/1/2026	
161. Available Forms of Attendance	
Weekly	
162. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
163. Course administrator name (if more than one name mentioned)	
Assoc. Prof. Dr. Ahmed Hassan Medhool	
164. Course Objectives	
- Analyze the interaction between geopolitics and cyberspace by understanding how states and international actors employ cybersecurity as an instrument of influence and conflict in the international development, and its impact on reshaping the balance of power and international alliances. • Interpret the strategic dimensions of cybersecurity in national and international policies by studying the strategies of major and regional countries in protecting their digital infrastructure and linking them to concepts (sovereignty, deterrence, national security, and non-traditional conflicts). • Building the analytical and research capacities of postgraduate students in the field of geopolitical cyber threats by enabling them to assess cross-border risks, anticipate conflict scenarios and international cooperation in cyberspace, as well as enable them to make science-based policy proposals.	Course Objectives

165. Teaching and Learning Strategies

A. Cognitive Objectives: 1. The student should explain the basic concepts and theories related to geopolitics of cybersecurity and its relationship to power and influence in international system. 2. To analyze the geopolitical dimensions of cyberspace and its impact on nation regional, and international security. 3. To evaluate the strategies of countries and international powers in managing conflicts and cyber threats and their geopolitical repercussions. B. Skill Objectives: 1. To employ geopolitical analysis tools in the study of transnational cyber threats and attacks. 2. Conduct specialized research studies and reports on cybersecurity issues from a geopolitical perspective. 3. Interpret data and indicators related to cybersecurity and draw conclusions from them that support strategic decision-making. C. Emotional and Values Goals : 1. Appreciate the importance of cybersecurity as one of the pillars of national security and the digital sovereignty of the State. 2. Adopt positive attitudes towards the responsible and ethical use of digital technologies and cyberspace. 3. Promote a sense of scientific and professional responsibility towards confronting cyber threats and protecting national interests.	Strategy
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166. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Cybersecurity as a tool of geopolitical power in the contemporary international system	The student should explain the role of cybersecurity as one of the elements of geopolitical power affecting the interactions of the contemporary international system.	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Cyber Conflict between Major Powers and its Impact on Reshaping International Balances of Power	The student should analyze the impact of cyber conflicts between major powers on the shifts in the balance of power at the regional and international levels.	2	The second
Written Exam, Research	Lecture, questioning and	The State's Sovereignty in Cyberspace and	The student should assess the challenges posed	2	The third

Requirement and Translation	discussion	the Problem of Digital Geographical Boundaries	by cyberspace on the concept of national sovereignty and traditional geographical boundaries.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Cyber Attacks as an Alternative to Conventional Warfare in International Relations	The student should distinguish between cyber attacks and conventional warfare in terms of tools, goals, and geopolitical effects.	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Role of Cross-Border Tech Companies in Shaping the Geopolitics of Cybersecurity	The student should explain the impact of cross-border technology companies in shaping the balance of power and power within the global cyberspace.	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Cybersecurity and the Protection of Critical Infrastructure of the State: Geopolitical and Economic Dimensions	The student should analyze the importance of cybersecurity in protecting critical infrastructures and its geopolitical and economic repercussions on the country.	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Cyber Alliances and Conflicts in the International System	The student should explain the role of cyber alliances and conflicts in shaping patterns of interaction and power in the international system.	2	Seventh
Written Exam, Research Requirement	Lecture, questioning and discussion	Cybersecurity in Developing Countries: Geopolitical	The student should assess the geopolitical challenges related	2	Eighth

and Translation		Challenges and Technological Adoption	to cybersecurity and the effects of technological adoption in developing countries.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	International Humanitarian Law and International Cybersecurity Law: The Problem of Geopolitical Application	The student should discuss the problems of applying the rules of international law to cyber conflicts and threats from a geopolitical perspective.	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Cybersecurity and its impact on national security and strategic decision-making of countries	The student should conclude the impact of cybersecurity in enhancing national security and guiding the strategic decisions of countries	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Cyberspace as an arena of asymmetric geopolitical conflict between states	Analysis of asymmetric geopolitical conflict patterns in cyberspace.	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Cyber Intelligence and its Role in Reshaping the Concepts of Deterrence and International Security	Assess the role of cyber intelligence in reshaping international deterrence strategies.	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Controlling global data flows and its impact on the geopolitical influence of countries	Interpret the geopolitical dimensions of controlling global data and information flows.	2	Thirteenth
Written Exam, Research Requirement and	Lecture, questioning and discussion	Digital and Cyber Military Transformation: Geopolitical Dimensions of	Assess the implications of digital and cyber military transformation on	2	Fourteenth

Translation		Global Security	global security.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Transnational Cyber Threats and Their Impact on the Stability of the International System	Conclusion of the effects of transnational cyber threats on the stability of the international system and security policymaking.	2	Fifteenth

167. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

168. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Amos N. Guiora is, (2017), Cybersecurity Geopolitics, law, and policy, by Routledge, New York. 2- James L. Norrie, 2019, Protecting Ourselves from Big Tech & Bigger Lies, Published by Mindstir Media, LLC, USA. 3- Yuri Diogenes & Erdal, (2018) Ozkaya Cybersecurity – Attack and Defense Strategies, Published by Packt Publishing Ltd. BIRMINGHAM - MUMBAI UK.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

169. Course Name	
Geostrategic Theories	
170. Course Code	
EG513	
171. Semester/ Year	
you semester	
172. Date this description was prepared	
19/1/2026	
173. Available Forms of Attendance	
Weekly	
174. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
175. Course administrator name (if more than one name mentioned)	
Prof. Dr. Hamida Abdel Hussein Mohamed	
176. Course Objectives	
This course for the first semester aims to study modern geostrategic theories by reviewing their nature, research trends, and the scientific addition achieved from them.	Course Objectives
177. Teaching and Learning Strategies	
A. Cognitive Objectives A1. Identify the concept of geostrategy, its origin and development. A2- Familiarity with the intellectual foundations of classical and modern geostrategic theories A3- Knowing the contributions of the most prominent geostrategic thinkers and analyzing their ideas A4- Interpreting contemporary geopolitical transformations in the light of geostrategic theories b. Skill objectives of the course. B1- Providing students with the skill of analyzing geostrategic theories and employing them in interpreting issues and events. International B2. Developing the skill of analyzing the elements of power of the state and knowing its strategic importance B3. Developing the capabilities of preparing scientific research by adopting the correct academic curricula. B4- Providing students with the skill of future forecasting of possible geostrategic events C. Emotional goals	Strategy

C1- Developing positive attitudes towards scientific research and objective analysis of geostrategic issues	
C2- Consolidating the values of scientific responsibility in the study of geostrategic theories	
C3- Consolidating critical thinking and openness to modern geostrategic trends and theories	

178. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The concept of the theory and its conditions	That the student knows the concept of the theory and shows its importance in geostrategic studies	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Traditional Theories	To know the concept of traditional theory and explain its foundations and stages of development	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Theory of Naval Force	To know what the theory of naval power is and its importance in geostrategic thought	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Air Force Theory	He defines the concept of air power theory and explains the relationship between air superiority and state power.	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Clash of Civilizations Theory	To know the concept of modern geostrategic theories, their foundations and their comparison with traditional theories.	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The End of History Theory	To know the concept of the theory of the end of history and modern geostrategic transformations	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Cybersecurity in Geostrategy	To define the concept of cybersecurity and its strategic dimensions in the contemporary international environment.	2	Seventh
Written Exam ,	Lecture,	Creative Chaos	To clarify the content	2	Eighth

Research Requirement and Translation	questioning and discussion	Theory	s of creative chaos and its impact on modern geostrategic balances.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Soft Power Theory	To explain the sources of soft power, its tools and its impact on the international arena	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Intelligent Force Theory	To explain the mechanisms of employing smart power in achieving the strategic goals of countries	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Foreign Policy and its Geopolitical Role	To link regional and international geopolitical transformations with the foreign policy orientations of the country	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The most prominent criticisms of traditional theories	To clarify the most prominent scientific and intellectual criticisms directed at traditional theories	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The most prominent criticisms of modern theories	To distinguish between the strengths and shortcomings of modern geostrategic theories	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Research Discussion	The student should know the results of his research scientifically and systematically.	2	Fourteenth
Written Exam		Evaluation exam		2	Fifteenth

179. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

180. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Klaus Dodds and David Atkinson, Political Geography in One Hundred Years of Global Geopolitical Development, Part 1. 2- Abbas Ghali Al-Hadithi, Introduction to Political Geography, 2020.	Main References (Sources)

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

Course Description Form

181. Course Name
GIS

182. Course Code	
EG514	
183. Semester/ Year	
you semester	
184. Date this description was prepared	
19/1/2026	
185. Available Forms of Attendance	
Weekly	
186. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
187. Course administrator name (if more than one name mentioned)	
Assoc. Prof. Dr. Ali Fadel Hassan	
188. Course Objectives	
• Developing students' abilities on how to use computers and benefit from them in accessing data and drawing charts, tables, maps and graphs that they need in their studies . • Developing the student's abilities to express himself, write research and scientific reports, and build his integrated personality on a sound basis.	Course Objectives
189. Teaching and Learning Strategies	
A. Cognitive Objectives A1. Understand the nature of GIS, its historical origins, and its main components (Hardware, Software, Data, Human Resources, and Methods) A2. Understand the fundamental difference between spatial data (vector and maps) and metadata (tables and statistics), and the methods of representing each A3- Understand the principles of coordinate systems, geographic projection, and how to convert Spherical Dimensions of the Earth to Accurate Flat Maps. Spatial Database Management A4. Learn how to collect, store, and design geographic and cadastral information Organized Geography.Spatial Analysis b. Skill objectives of the course. B1- Skills of building and managing databases linking geospatial information with data Statistical metadata within a single database B2. Ability to enter, process, store, and update data periodically B3- Taj and development of maps and converting maps and paper a survey data into maps	Strategy

Digital Maps B4- Designing and Producing Professional Digital Maps Using C Software C. Emotional and Values Goals A1. Deepen awareness of the importance of conserving natural resources (e.g. water and soil) C2- Developing a sense of responsibility towards monitoring sources of pollution and environmental hazards through satellite imagery. C3- Instilling the value of high accuracy in the analysis of spatial and statistical data when making decisions	
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190. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Introduction to Geographical Technologies (Concept of Technologies, Their Importance, Types, Complementary Relationship between Geographical Technologies)	Enable the student to understand geographical techniques and their importance	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Remote sensing (conceptualization), the development of historiography, its importance and areas of general applied uses.	The student should be able to know remote sensing and its general application areas	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Types of Remote Sensing, Techniques	The student should learn the types of remote sensing platforms and their applications	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Google Earth Applications (Tariff, Contents)	The student should be able to use the applications of the Google Earth program Google Earth	2	Fourth
Written Exam , Research	Lecture, questioning	How to Improve Spatial Visualization	The student should be able to	2	Fifth

Requirement and Translation	and discussion	(Bands, Miscellaneous Processes on Spatial Visualization	improve and correct the satellite vision		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographic Information Systems (GIS) // 1- (Introduction to Information Systems, Understood (Nature of Currency), Tariff, Advantages)	The student should be familiar with the concept and nature of its work	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	GIS Components	The student should be familiar with the components of GIS	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Types of Data and Information in GIS (Spatial Data)	The student should be able to deal with the types of data and information in GIS (spatial data).	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Metadata and temporal data	The student should be able to prepare and deal with the types of metadata and temporal data.	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Databases in GIS and their types	The student should be able to create databases in GIS and its types	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Database Interface and Installation in GIS	The student should be able to deal with the structure and structure of databases in GIS	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Practical Lesson on How to Create Databases in GIS	The student should be trained on how to create databases in GIS	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Arc GIS 1 Applications (Tariff, Contents, (ViewWindow, Tables, Layout, Scripts))	The student should be able to deal with the ArcGIS program	2	Thirteenth
Written Exam	Lecture,	Handle scene or view	The student	2	Fourteenth

, Research Requirement and Translation	questioning and discussion	window (open project, zoom in and out of features, show, hide, arrange, activate topics)	should be able to perform the necessary analyses using the different windows of Arc GIS software.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Handling the charts window (create, edit, view it)	The student should be able to perform statistical analyses and present the results in the ArcGIS program.	2	Fifteenth

191. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

192. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
DeMers, Michael (2009). <i>Fundamentals of Geographic Information Systems</i> (4th ed.). John Wiley & Sons, inc. ISBN 978-0-470-12906-7. Chang, Kang-tsung (2016). <i>Introduction to Geographic Information Systems</i> (9th ed.). McGraw-Hill. p. 1. ISBN 978-1-259-92964-9. Goodchild, Michael F (2010). "Twenty years of progress: GIScience in 2010". <i>Journal of Spatial Information Science</i> (1). doi:10.5311/JOSIS.2010.1.2. Maliene V, Grigonis V, Palevičius V, Griffiths S (2011). "Geographic information system: Old principles with new capabilities". <i>Urban Design International</i>. 16 (1): 1–6. doi:10.1057/udi.2010.25. S2CID 110827951.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

193. Course Name	
Geomorphology of the Quaternary Age	
194. Course Code	
EG509	
195. Semester/ Year	
you semester	
196. Date this description was prepared	
19/1/2026	
197. Available Forms of Attendance	
Weekly	
198. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
199. Course administrator name (if more than one name mentioned)	
Prof. Dr. Safir Jassim Hussein	
200. Course Objectives	
• This course for the second semester aims to study the geomorphology of the Quaternary Age by reviewing the impact of the geomorphic processes prevailing during that era on the surface of the earth, studying the development of man and his civilizations, explaining the environmental changes that occurred at that time, as well as studying the economic resources that were the result of these processes.	Course Objectives
201. Teaching and Learning Strategies	
A. Cognitive Objectives A-1 - Definition of the concept of the Quaternary Era and its importance in geomorphological studies. A-2 - Clarifying the divisions of the four time and its main stages. A-3 - Explaining the climatic changes witnessed in the Quaternary Era. A-4 Analysis of sea level changes during glacial and interglacial periods. B. Skills Objectives:	Strategy

B-1. Analysis of geomorphological maps related to the Quadrilateral Era. B-2 - Interpreting the geomorphological evidence for ancient climatic changes. B-3 The use of satellite images and aerial visuals in the study of the Earth's surface shapes. C. Affective Objectives C-1 Appreciates the importance of the study of the Quadrilateral Era understanding the current environments. C-2 - Shows interest in climate change and its geomorphological effects. C.3. Promotes a sense of responsibility towards the conservation of natural resources.	
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202. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Evolution of the Concept of Quadruple Time	The student should know what quadruple time is	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Quadrilateral time divisions	The student should understand the divisions of the four time	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Climate change	The student should analyze the causes of climate changes during the quadruple time.	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Changes in sea level	The student should explain the changes in sea level	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Suitability of geomorphological systems in quaternary time	The student should know the suitability of geomorphological systems in the quadrilateral time	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental changes during the Forum Ice Period	The student should understand how environmental changes occur during the Ice	2	Sixth

			Form.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The human environment at the end of the Pleistocene	The student should analyze the human environment at the end of the Pleistocene.	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Adaptations in the Early Holocene 5000- 11500 BC	The student should explain how the adaptations occurred in the early Holocene	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The return of forests	The student should explain the reasons for the return of forests	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Mid-Course Exam		2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Stone Age environment in Europe	The student should know the environment of the Stone Age in Europe	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Early farmers	The student should understand how early farmers adapted to Holocene conditions	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Taming Nature 500-5000 BC	The student should analyze the taming of man to nature during the period 5000-500 BC.	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Influences of Modern Times 500 – 0 BC	The student should explain the effects of modern times during the period 500-0 BC.	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Quadrant Time Resources	The student should analyze the spatial variation of the resources of the quadrant time	2	Fifteenth
203. Course Evaluation					
Oral Tests					

Written Tests Reporting, Research & Translation	
204. Learning and Teaching Resources	
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
Bowen ,D.Q. (1978), Quaternary Geology, Pergamom Press, Oxford . Roberts , Neil ,(1998) The Holocene An Environmental History, Blackwell Publishers Ltd., Oxford. Summerfield ,Michael A. (1991) Global Geomorphology , Routledge , London. DAVID R. OLDROYD1 & RODNEY H. GRAPES (2025), Contributions to the history of geomorphology and Quaternary geology: an introduction, Geological Society, London, Special Publications, 301, 1–17. Ian Tattersall (2009) Charles Darwin and Human Evolution, Evo Edu Outreach, The American Museum of Natural History, New York. David Bridgland, (2021) The Role of Geomorphology in the Quaternary, Downloaded from http://mem.lyellcollection.org/. 7-Al-Ameri, Thamer Khazal (2000) Historical Geology, Dar Al-Kutub Directorate for Printing and Publishing, Baghdad. 8-Neil Roberts, (2017) A Holocene Environmental History, Translated by Hafez Shams El-Din Abdel Wahab, 1st Edition, National Center for Translation, Cairo. 9-Al-Awadhi, Hamdina Abdel Qader (2020) The Fourth Time and Environmental Changes, Dar Al-Maarifa University, Alexandria. 10- Al-Gohary, Yousri Abdel Razzaq (1974) Man and His Breeds, Al-Maarif Foundation, Alexandria. 11- Al-Samarrai, Qusay Abdul Majeed (2008) Climate and Climatic Regions, Al-Yazouri Scientific House for Publishing and Distribution, Amman.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

205. Course Name	
Applied hydrology	
206. Course Code	
EG603	
207. Semester/ Year	
you semester	
208. Date this description was prepared	
1/9/2025	
209. Available Forms of Attendance	
Weekly	
210. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
211. Course administrator name (if more than one name mentioned)	
Prof. Dr. Adnan Odeh Falih	
212. Course Objectives	
- The course for the first semester aims to: - Training PhD students on basic skills and methods in hydrology topics - Make students able to understand and understand the vocabulary of this subject.	Course Objectives
213. Teaching and Learning Strategies	
D- Knowledge Objectives: 1. Identify the concept of hydrology and its importance in sustainable development. 2. Deepen the knowledge of the characteristics of marine science from all directions 3. Studying the water balance and the reflection of its environmental and economic results 4. Know the maritime rights of each country b. Skill objectives of the course. 1. Developing students' skills to familiarize students with marine and surface waters in general and evaluating their quantities and quality in different water basins. 2. The use of maps and hydrological data in the study of water resources and their spatial distribution. 3. Applying water planning and management methods to achieve optimal utilization of water resources.	Strategy

4. Ability to estimate the water needs of different sectors such as agriculture, industry, and domestic uses.

C. Emotional and Values Goals:

- 1. Developing environmental awareness and responsibility for the importance of seawater**
- 2. Promoting strategic thinking for the purpose of achieving the most beneficial use of seawater, especially in the field of transport and trade.**
- 3. Developing awareness of the dangers surrounding seawater, especially pollution and international competition for acquisition of other areas.**
- 4. Promoting the love of scientific and field exploration.**

214. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Dams and Reservoirs	Knowing the nature of the dams that are suitable for the geographical environment	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Seabed geomorphology	Learn about the topography of the seabed and how it originated	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Characteristics of seawater and oceans	Study of the physical and chemical properties of seawater	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Water Budgeting	Knowledge of water deficits and surplus water and its impact on water properties	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Offshore Islands and Lakes	Knowing how the offshore islands originated, the lakes within the land and the quality of their waters	2	Fifth
Written Exam, Research	Lecture, questioning	Marine currents	Introducing marine currents in terms of their type,	2	Sixth

Requirement and Translation	and discussion		origin, harms and benefits		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Marine coast shapes	The most important methods and opinions that classified the sea coasts	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Sea lanes and navigational channels	Studying the importance of shipping lanes and canals in all directions	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Problems of seawater and natural and human oceans	Identify the most important problems facing seawater, such as pollution and international competition.	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Marshes and swamps	Identify the origin of marshes and the most important theories I have studied	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Hydrological properties of seawater	Identifying the levels of seawater, its origin and its most important secretions	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	National, Regional and International Waters	Identify and divide seawater in accordance with international treaties, conventions and the rights of each international party	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Exam		2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Fjords and Rayassat	Classification of sea coasts in terms of shape and topography	2	Fourteenth
Written Exam,	Lecture,	Marine	Identify the natural	2	Fifteenth

Research Requirement and Translation	questioning and discussion	Resources	resources and other economic resources contained in the waters and seabeds		
215. Course Evaluation					
Oral Tests Written Tests Reporting, Research & Translation					
216. Learning and Teaching Resources					
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program			Required Textbooks (Methodology, if any)		
Hydrology. Mahdi Al-Sahaf and Wafiq Al-Khashab Seas and oceans.N. Louvre Plédier Geographical Materials Aquatic Safaa Al-Asadi The Internet			Main References (Sources)		
A group of lectures prepared by the professor of the subject			Recommended books and references (scientific journals, reports...)		
			Electronic References, Websites		

Course Description Form

217. Course Name	
Environmental Problems	
218. Course Code	
EG605	
219. Semester/ Year	
you semester	
220. Date this description was prepared	
1/9/2025	
221. Available Forms of Attendance	
Weekly	
222. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
223. Course administrator name (if more than one name mentioned)	
Prof. Dr. Anwar Sabah Mohamed	
224. Course Objectives	
Introducing the most important geophysical and human factors that are behind environmental problems, analyzing the dimensions of environmental problems spatially and temporally, identifying modern ways to address them and reducing their effects on the vital community in a place.	Course Objectives
225. Teaching and Learning Strategies	
E- Knowledge Objectives : A1- Remember: The student should mention the basic principles	Strategy

environmental geography .

A2- **Understanding:** The student should explain the difference between the environment and the ecosystem.

A3- **Application:** The student should learn to apply environmental determinants.

A4- **Analysis:** The student should analyze the causes of the environmental problem such as the Chernobyl accident in 1986.

b. Skill objectives of the course.

B1- **Manual/Practical Skills:** The student should learn to collect and examine samples.

B2- **Technical skills:** The student should learn a simple application such as a noise meter .

B3- **Communication Skills:** The student should give an effective presentation on an environmental topic.

B4- **Motor Skills:** The student should apply spatial projections using GPS.

C. Emotional and Values Goals :

A1- **Interest:** The student should actively participate in the class discussions .

A2- **Grade:** The student should appreciate the value of cultural diversity in the work environment.

A3- **Commitment:** The student must adhere to the ethics of scientific research and scientific honesty.

A4- **Directions:** The student should show enthusiasm in solving environmental issues such as the problem of pollution .

226. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	General Lecture (Introduction to the Study of Environmental Problems)	Knowledge of ecology and related concepts	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Geographical Pillars of the Study of Ecology, Ecology and Ecosystem, Environmental Competence, Environmental Problem and the Relationship of Geography to Ecology	The student should understand the elements of the ecosystem, its balance mechanism, and the problems	2	The second

			associated with it.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Non-life factors affecting the environment – Liebig's law of the minimum and the law of the upper limit and the combination of the two laws	Learn the role of biologically retaining laws in the environment	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Environmental Hazards and the Concept of Environmental Impact / (Environmental Hazards, Opinions and Concepts on Environmental Hazards, Environmental Hazard Management)	The student should understand the nature of environmental hazards in the ecosystem	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	(Concept of Environmental Impact Assessment, Environmental Impact Factors, Environmental Impact Methodology)	The student should understand the environmental impact methodology	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Environmental Succession (Water Succession, Succession in the Dry Environment)	The student should be aware of the mechanism of environmental succession	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The environmental problems, focusing on the problem of environmental pollution (concept, foundations, grades, classification of pollution	To learn the intellectual and philosophical development of it	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	The Problem of Soil Pollution with an Application to Muthanna Governorate	To learn the importance of the problem of soil pollution	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The problem of air pollution with an application on Muthanna Governorate	The student should understand the dimensions of the air pollution problem	2	Ninth
Written Exam, Research	Lecture, questioning	Water footprint (with emphasis on Muthanna	Understanding the problem and its effects	2	Tenth

Requirement and Translation	and discussion	Governorate or Iraq)	on environmental systems		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The problem of food contamination (applied to Iraq or Muthanna Governorate)	The student should learn the characteristics and elements of the food contamination problem	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Problem of Radioactive Pollution (Application to Iraq or Muthanna Governorate)	Understand the nature of the physical and chemical properties of radioactive contamination	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The problem of sewage pollution (applied to Iraq or Muthanna Governorate)	To understand the structure and function of wastewater and its most important pollutants.	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Environmental Conservation (Environmental Awareness)	The student should be aware of the importance of preserving the environment	2	Fourteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Role of Science Environmental Legislation in Preserving the Environment	Be familiar with the most important environmental laws	2	Fifteenth

227. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

228. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Haitham Ahmed, Hassan Shehab, Ecology - The Theoretical Part, Directorate of Books and Government Publications, Syria, Damascus, 2006. 2- Adnan Yassin Muhammad Al-Quraishi,	Main References (Sources)

Fundamentals of Environmental Pollution, Dar Al-Kitab Al-Thaqafi, Jordan, 2021.	
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

229. Course Name	
	Environmental Geomorphology
230. Course Code	

EG606	
231. Semester/ Year	
you semester	
232. Date this description was prepared	
1/9/2025	
233. Available Forms of Attendance	
Weekly	
234. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
235. Course administrator name (if more than one name mentioned)	
Prof. Dr. Safir Jassim Hussain	
236. Course Objectives	
• Detecting the risks that affect humans due to the close relationship between geomorphic processes and human activities, as well as the impact of environmental factors in activating geomorphic factors and processes that can pose a danger to humans and their property.	Course Objectives
237. Teaching and Learning Strategies	
Cognitive Objectives A-1. Define the concept of environmental geomorphology and explain its fields and applications. A-2 - Explain the relationship between geomorphological processes and the natural and human environment. A-3 - Analysis of the role of geomorphology in assessing the environmental impact of development projects. A-4 - Clarify the role of geomorphology in environmental management and sustainable development. Skills Objectives: B-1. The use of topographic and geomorphological maps in the analysis of environmental phenomena. B-2. Employing Geographic Information Systems (GIS) and Remote Sensing Techniques in Geomorphological Studies. B-3. Conducting an environmental impact assessment of the various projects. Affective Objectives C-1 Recognizes the importance of preserving natural resources and agricultural lands. C.2. Appreciate the role of geomorphology in achieving sustainable	Strategy

development.

C-3 Promotes a sense of responsibility to protect the environment from degradation.

238. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Concept of Environmental Geomorphology and its Fields	The student should know the concept of environmental geomorphology and its fields	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Geomorphology and Environmental Impact Assessment	The student must understand the geomorphology and environmental impact assessment	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Geomorphology in Environmental Management and Community Development	The student should analyze the role of geomorphology in environmental management and community development.	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban Geomorphology	The student should explain the geomorphological effects in urban environments	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Soil erosion and salinization	The student should know the mechanisms and risks of soil erosion and salinization	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Land Degradation and Food Security Challenges	The student should understand how land degradation and food security challenges occur.	2	Sixth
Written Exam, Research	Lecture, questioning	Land Degradation and	The student should analyze	2	Seventh

Requirement and Translation	and discussion	its Role in the Problem of Poverty and Marginalization	the degradation of land and its role in the problem of poverty and marginalization		
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Environmental Impacts of Floods of Irrigation and Puncture Projects	The student should understand the environmental impacts of the floods of irrigation and puncture projects.	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Concentrations of Heavy Metals and Pesticides in Agricultural Soils and Plants	The student should explain the causes and effects of heavy metals and pesticide concentrations in agricultural soils and plants.	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Movement of Materials and Their Environmental Impacts	The student should know the types of material movement and their environmental effects	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Tectonic hazards and their environmental impacts (earthquakes in Turkey as a model).	The student should understand how tectonic hazards occur and their environmental impacts.	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Engineering geomorphology and the change of the earth's face.	The student should analyze the role of geomorphology and the change of the earth's face.	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Land Valuation for Land Units	The student should know the land valuation for the land units	2	Thirteenth
Written Exam, Research Requirement and	Lecture, questioning and	Management of saline lands in arid and semi-arid regions.	The student should understand the management of saline lands in	2	Fourteenth

Translation	discussion		arid and semi-arid regions.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Semester Exam		2	Fifteenth

239. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

240. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1-John Erickson (2002), Environmental Geology, New York. 2- Carla W. Montgomery (2006) Environmental Geology, New York. 3-Kristiina A. Vogt et al,(1996) Ecosystems :Balancing Science With Management, New York. 4-Thornbush, Mary J. (2012) STUDIES OF OXFORD STONE AS A CONTRIBUTION TO ENVIRONMENTAL GEOMORPHOLOGY, <i>Journal of Environmental Geography</i> 5- Bierman, Paul R. and David R. Montgomery (2014) <i>Key Concepts in Geomorphology</i>, Encyclopedia of Planetary Land Forms, W.H. Freeman, New York. 6- Gupta, Gauri Shankar (2019) , Land Degradation and Challenges of Food Security, Review of European Studies; Vol. 11, No. 1; Canadian Center of Science and Education. 7- Agegnehu, Getachew, A.K. Srivastava and Bird, Michael I. (2017) The role of biochar and biochar-compost in improving soil quality and crop performance: A review, Applied Soil Ecology ,119, Elsevier B.V. 8- Tunç ,Gökhan, Mertol ,Halit Cenan and Akış ,Tolga(2024) , Lessons learned from four recent Turkish earthquakes: SivriceElazığ, Aegean Sea, and Dual Kahramanmaraş, Natural Hazards. 9- Coates, Donald R. (2020) Environmental Geomorphology and Landscape Conservation, Vol.8, <i>Routledge is an imprint of the Taylor & Francis Group</i>, New York. 10- Lufta Salman Kazim et al., Environmental Geology, Nafah Al-Tayeb Office for Printing and Publishing, Baghdad, 2016 11-RashidAbdel Fattah Zaghloul (2019), Environmental Pollution: Problems and Solutions, Al-Hoda Center Press, Cairo 12. Mr. Ahmed Al-Khatib (2008), Land Pollution, Alexandria.	Main References (Sources)
	Recommended books and

	references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

241. Course Name	
English	
242. Course Code	
EG607	
243. Semester/ Year	
you semester	
244. Date this description was prepared	
1/9/2025	
245. Available Forms of Attendance	
Weekly	
246. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
247. Course administrator name (if more than one name mentioned)	
Eng. Salam Abbas Mahmoud	
248. Course Objectives	
Clarify general concepts in geography in English, knowledge of translation methods and the use of sources, as well as ways of addressing English speakers as the first universal language.	Course Objectives
249. Teaching and Learning Strategies	
A. Cognitive Objectives A1. Familiarize yourself with the basics of the English language related to academic subjects. A2. Proficiency in the use of passive and intellectually constructed sentences in English correctly. A3. Distinguish between sentences with similar and different content A4. Analysis of texts and understanding their content	Strategy

b. Skill objectives of the course. B1. Ability to translate texts B2- Connecting the sentences with each other and turning them in compound sentences B3- Correcting linguistic errors in relation to the study topics B4- Maintaining linguistic dictation C. Emotional and Values Goals C1- Developing the student's skill in the English language, which enhances his scientific potential. C2- Highlighting the linguistic identity of the student through the development of the four skills	
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250. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Personal observation and written test	Reading passages	Education and Learning	To develop listing and speaking skills	2	The first
Reading fluency	Reading Comprehension	The UK Education System	To develop listing and speaking skills	2	The second
Writing a composition	Writing strategies	Comparing and Contrasting	To develop listing and speaking skills	2	The third
Personal observation and written test	Reading emails and passages	Innovations in health and medicine	To develop listing and speaking skills	2	Fourth
Writing a composition	Writing strategies	A new vaccine	To develop listing and speaking skills	2	Fifth
Reading fluency	Reading Comprehension	Music Used as a healing therapy	To develop listing and speaking skills	2	Sixth
Writing a composition	Writing strategies	Rephrasing	To develop listing and speaking skills	2	Seventh
Reading fluency	Reading Comprehension	Focus on health	To develop listing and speaking skills	2	Eighth
Reading fluency	Reading fluency	Urban planning	To develop listing and speaking skills	2	Ninth
Writing a composition	Writing strategies	Finding information	To develop listing and speaking skills	2	Tenth
Listening skill	Listening	Water, food and energy	To develop listing and speaking skills	2	Eleventh
Speaking skill	Speaking	introductions and conclusions	To develop listing and speaking skills	2	XII
Listening skills	Listening	Free trade and fair trade	To develop listing and speaking skills	2	Thirteenth
Speaking skills	Speaking	globalization	To develop listing and speaking skills	2	Fourteenth

Speaking skills	Speaking	Certainty and uncertainty	To develop listing and speaking skills	2	Fifteenth
251. Course Evaluation					
Oral Tests Written Tests Reporting, Research & Translation					
252. Learning and Teaching Resources					
Academic skills level 3			Required Textbooks (Methodology, if any)		
			Main References (Sources)		
			Recommended books and references (scientific journals, reports...)		
			Electronic References, Websites		

Course Description Form

253. Course Name	
Research Skills and Seminars	
254. Course Code	
EG601	
255. Semester/ Year	
you semester	
256. Date this description was prepared	
1/9/2025	
257. Available Forms of Attendance	
Weekly	
258. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
259. Course administrator name (if more than one name mentioned)	
Prof. Dr. Telephone Tip Fatin	
260. Course Objectives	
Uncovering the outlines that regulate scientific research and showing the sound methodological foundations of research and the conditions and obligations of originality and innovation in the light of modern scientific and technical developments.	Course Objectives

261. Teaching and Learning Strategies

A. Cognitive Objectives A1- The student should know the science of geography and the nature, philosophy and objectives of this science. A2-. The student should know the ethics of scientific research and its sources A3. The student should understand the meaning of the concepts of scientific research in physical and human geography. A4- The student should know how to collect natural and human geographical information and its problems. b. Skill objectives of the course. 1- The student should be able to distribute samples and the types and determine the statistical community in geographic research. 2. Analyze statistical methods and how to use them in writing the thesis. 2- Analyze data using geographic techniques and the possibility of employing them in the message. C. Emotional and Values Goals 1- The student should know the importance of scientific research in the society 2. Feel the value of using geographical techniques and statistical methods in the community.	Strategy
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262. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Nature of Geography	Understanding the Nature of Geography	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Scientific research is understandable , its importance is characteristics	Identifying scientific research is understandable , its importance is characteristics	2	The second
Written Exam , Research	Lecture, questioning	Types and Methods of Scientific	Knowledge of the types and	2	The third

Requirement and Translation	and discussion	Research	methods of scientific research		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The evolution of scientific research from traditional methods to Smart Thinking	Knowledge of the development of scientific research from traditional methods to Smart Thinking	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Contemporary challenges that have exposed the limits of curricula Traditional	Identify contemporary challenges that have exposed the limits of curricula Traditional	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Role of Artificial Intelligence and Digital Transformations in the Evolution of Scientific Research	Knowledge of the role of artificial intelligence and digital transformations	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Scientific Research in the Age of Big Data and Systems Adaptive	Knowledge of Scientific Research in the Age of Big Data	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Characteristics of Smart Research Methods Flexibility , Interaction , Pluralism	Identify the characteristics of smart search methods	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Elements of Building Smart Research Methods	Knowledge of the elements of building smart research methods	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Networked Thinking and the Interactive Approach : The End of the Perspective Linear for Research	Learn about networked thinking and interactive approach	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Intelligent Hybrid Methodologies: Quantitative and Qualitative Integration	Knowledge of Smart Hybrid Methodologies	2	Eleventh

		Contextual awareness			
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	New Tools in Scientific Research : Artificial Intelligence Predictive Analysis , Simulation	Identify new tools in scientific research	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Adapting to Changing Environments: How to Build a Curriculum That Doesn't Age	Knowing how to adapt to changing environments: how to build an approach that doesn't age	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Smart Research Approaches and Continuing Education for Researchers	Identify smart research methods	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Towards Building Contemporary Theories: Features of the Research Future	Learn about building contemporary theories	2	Fifteenth

263. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

264. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Foundations and Ethics of Scientific Research: Prof. Dr. Hussein Al-Ziadi 2- Smart Research Methods, Dr. Faris Al-Bayati 3. Scientific Research Methods. Dr. Mohammed Sarhan Al-Mahmoudi	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

265. Course Name	
	Studies in Geographical Thought
266. Course Code	
EG604	
267. Semester/ Year	
you semester	
268. Date this description was prepared	
1/9/2025	
269. Available Forms of Attendance	
Weekly	
270. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
271. Course administrator name (if more than one name mentioned)	
Assoc. Prof. Dr. Huda Idan Jabbar	
272. Course Objectives	
• This course, which is dedicated to the first semester, aims to	Course Objectives

identify the philosophical perspective of geography and the dimensions and limits of geography while tracing the intellectual diligence of the civilizations of the ancient and medieval world, as well as focusing on the role of modern schools in the development of geography, tracing the characteristics of contemporary thought and geographical decision-making.

273. Teaching and Learning Strategies

A. Cognitive Objectives	Strategy
1- Identifying the philosophical foundations that contributed to the development of geography and the formulation of theories over time. 2- Mastering chronological tracking to understand the roles played by civilizations in the maturation of geography. 3- Distinguishing between curricula, i.e. the systematic tracking of geographers across civilizations and even contemporary. 4- Analyzing and evaluating geographical ideas and employing them in solving contemporary problems.	
b. Skill objectives of the course.	
1- The maturity of philosophical ideas about geographical schools and the knowledge of their real contribution. 2- Making comparisons of any intellectual symmetry between geographers of spatial science. 3- Preparing specialized studies on the regional concept of place. - Applying modern technology and knowing the amount of added achieved.	
C. Emotional and Values Goals	
1- Establishing the actual value of the philosophical dimensions of place science among students.	
2- Understanding the intellectual diversity of the views of environment and modern schools and understanding contemporary trends.	
3. Developing the intellectual nutrients that are concerned with building the real geographical personality.	

274. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	A philosophical perspective of geography and geographical thought	Knowing the first foundations for the growth of the specialization from the beginning through	2	The first

			civilizations		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The philosophy of the gravein its dimensions and limits	Knowledge of the philosophical dimensions of spatial science and its limits in drawing its relations	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Space, Time and Building Geographical Personality	Real Requirements for Geo- Personality Building	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical Ijtihad in Ancient Civilizations	The Pioneering Role of Ancient World Civilizations in Establishing Geographical Knowledge	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical Jurisprudence in the Middle Ages	The Pioneering Role of Arab Muslim Scholars in Establishing the Multiple Fields of Geography	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical intellectual diligence in the product of the Ahl al-Bayt peace be upon them	Reveal the scientific and geographical value of their products	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Movement of Geographical Discoveries and its Impact on Geographical Knowledge	Knowing the real motives of geographical detection and its results in the broad horizon	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Modern Geographical Jurisprudence (German School and French School)	Knowing the efforts of the Germans in establishing geographical bases and what the French school offered	2	Eighth
Written Exam , Research Requirement and	Lecture, questioning and discussion	Modern Geographical Diligence (British School and	Know the efforts made and how much impact has been made in	2	Ninth

Translation		American School)	previous schools		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Major Schools of Geographical Philosophy	Understanding the Environmental Schools Understanding the Relationship between Man and Place	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Intellectual Symmetry of Spatial Science among Geographers	Understanding the views of geographers in the interpretation of spatial phenomena and the relationship between them	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Location and regional concept	Knowledge of the concept of the region and its characteristics	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Characteristics of Contemporary Geographical Thought	The real features of geographical thought after renewal and contemporaneity	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Modern Technologies and the Motivations of Innovation in Contemporary Geographical Thought	Understanding the extent of the added of modern technologies in the maturity of geographical studies as tools	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical Decision and Crisis Management in the Local Environment	Understanding the real role of geography in facing problems and reaching solutions that serve decision makers	2	Fifteenth

275. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

276. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the	Required Textbooks (Methodology, if any)
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Graduate Program	
- Gamal Hamdan, The Character of Egypt: A Study in the Genius of Place, 1976. - Harthorn, Nature of Geography, 1984. - Safouh Khair, Geography: Methods and Objectives, 2001. - Mohsen Abdul Sahib Al-Muzaffar, Philosophy of Spatial Science, 2005. - Mohamed Ahmed Al-Samarrai, The Philosophy of Place in Geographical Thought, 2015. - Mohamed Ahmed Al-Samarrai, The Geographical Personality The Genius of Man and Place, 2022.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

277. Course Name	
Philosophy of Education	
278. Course Code	
EG602	
279. Semester/ Year	
you semester	
280. Date this description was prepared	
1/9/2025	
281. Available Forms of Attendance	
Weekly	
282. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
283. Course administrator name (if more than one name mentioned)	
Prof. Dr. Karim Abis Abu Halil	
284. Course Objectives	
This course, which is dedicated to the first semester, aims to study the philosophical educational trends in the philosophy of university teaching and the ethics of the university teaching profession for the purpose of developing a desired educational philosophy for education that is embodied in the personality of the professor and the university student through the adoption of educational strategies and models based on the activities that originate from the student and under the supervision and guidance of the university professor.	Course Objectives
285. Teaching and Learning Strategies	
A. Cognitive Objectives 1. To know the concept of the philosophy of education and its most important sources 2. Clarify the general educational features of schools for the education sector. 3. Explain the roles of the philosophy of education in designing educational systems . A4. Distinguish between traditional and modern methods of university teaching . b. Skill objectives of the course. 1- To employ the applications of the philosophy of education in developing a rational philosophy for university teaching. 2- To use the philosophy of Total Quality Management in university teaching . 3- To apply modern philosophical methods in finding an ideal	Strategy

philosophy for university teaching.

- 4- Prepare reports or scientific presentations that illustrate the results of students' understanding of the model philosophy of university teaching.**

C. Emotional and Values Goals

- 1. He should show interest in following up on modern philosophical developments .**
- 2. The student must adhere to the scientific ethics of the university teaching profession.**
- 3. Realize the importance of the optimal use of educational philosophy for the desired university teaching.**

286. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Educational Concepts + The Concept of Education, Its Characteristics, Objectives and Theories	To know the concepts of learning, teaching and teaching and to clarify teaching strategies.	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Philosophy of Education Meaning, Concept and Semantics	To know the concept of the philosophy of education To clarify the concepts of educational philosophy To assess the importance of the applications of the semantics of educational philosophy in university teaching	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	General and Educational Features of Some Schools of Ancient and Contemporary Philosophy of Education	To analyze the educational and educational features of some schools of philosophy of education.	2	The third
Written	Lecture,		To apply the roles of	2	Fourth

Exam, Research Requirement and Translation	questioning and discussion	The Roles of Philosophy of Education in Designing Educational Systems	the philosophy of education in the design of educational systems.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Philosophical Readings on the Characteristics, Specifications and Characteristics of the Professor and the University Student	To discuss the characteristics and characteristics of the professor and the university student.	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Philosophy of Iraqi Education Goals and Objectives	Define the goals of university teaching in Iraq.	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Ethics of the University Teaching Profession	To determine the ethics of the university teaching profession.	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The needs of university education into an educational philosophy	To build a model of a modern educational philosophy.	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Philosophy of Developing Religious Values in the University Community	To contribute to the development of the philosophy of religious values in the university community.	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	A University Teaching Philosophy Methods and Methods	To clarify the methods and methods of the philosophy of university teaching.	2	Tenth
Written Exam, Research Requirement and	Lecture, questioning and discussion	The Philosophy of Classroom Management and the Educational Process in	Adopt effective management in university teaching.	2	Eleventh

Translation		University Teaching			
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Philosophy of Effective Teaching in University Teaching	Make access to effective teaching meaningful to university teaching.	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Total Quality Management Philosophy in University Teaching	To adopt a total quality system in university teaching.	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Philosophy of Educational Counseling in University Teaching	To discuss the ethical, legal, and social challenges associated with the philosophy of university teaching.	2	Fourteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Philosophy of Evaluation and Measurement in University Teaching	To employ assessment and measurement techniques in the evaluation of university teaching.	2	Fifteenth

287. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

288. Learning and Teaching Resources

Philosophy of Education in Teaching and University , Dr. Saeed Jassim Al-Asadi , 2014 , University of Surra Foundations of Education, Dr. Faisal Munshid Al-Shuwaili, 20145	Required Textbooks (Methodology, if any)
1- Ali Rashid, University and University Teaching, Al-Hilal House and Library, Beirut, 2007. 2- Abdel Moati Ali, Introductions to Philosophy, Dar Al-Nahda Al-Arabi, Beirut, 1st Edition, 1982.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

289. Course Name	
	Medina Region
290. Course Code	
EG612	
291. Semester/ Year	
you semester	
292. Date this description was prepared	
19/1/2026	
293. Available Forms of Attendance	
Weekly	
294. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
295. Course administrator name (if more than one name mentioned)	
Prof. Dr. Yahya Abdel Hassan Falih	

296. Course Objectives

- 1. Understand what the city region is.
- 2. Analyze and interpret the spatial relationships between the elements of the inner (morphological) and external (regional) city elements.
- 3. Assess the environmental impact resulting from the interactions of the elements of the city region and the systems of the city periphery.
- 4. Development potential and sustainable development of the environment of the city region.

Course Objectives

297. Teaching and Learning Strategies

A. Cognitive Objectives

A1. Introducing the concept of the region and its development in geographical thought

A2. Classification of regions with a focus on the city region

A3. Clarifying the mechanisms for determining the city region, its theories and the factors affecting it.

A4. Understanding the contours of the seam zone and the urban and rural periphery

b. Skill objectives of the course.

B1- Collective work in drawing a mental map for the formation of the city region

B2- Describing the regions of some cities through the field study

B3-

B4-

C. Emotional and Values Goals

C1 Imagine the spiritual value of the interconnectedness between the city and its region

C2- Knowing the depth of values that the city region holds in terms of social characteristics

C3-

Strategy

298. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The urban phenomenon (city), its concept, approaches, morphology.	The student should know the concepts of the city and the morphology of the city	2	The first
Written Exam,	Lecture,	The concept of the	The student should know the	2	The second

Research Requirement and Translation	questioning and discussion	region and the region of the city and the concepts associated with it .	concept of the region and the city region		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Types of Regions in General and City Regions in Particular, Methods of Determining the City Region	The student should classify the types of regions in general and the regions of the city in particular.	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The relationship between the city and its territory	The student should explain the relationship between the city and its region	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Theories of Regional Planning (Theory of Central Places, Theory of Growth Poles)	The student should explain the theories of regional planning	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Primary and non-essential activities and their role in revitalizing the relationship between the city and the region	The student should analyze the economic basis of the city	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban Rural Edge (City Meltdowns)	The student should know the concepts of the urban and rural edge	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Demographic and social characteristics of the residents of the city and its region (urban development and rural urbanization)	The student should distinguish the aspects of urban development and rural urbanization	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Challenges facing the city region	The student should be aware of the challenges facing the city region	2	Ninth

Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban dominance (the leading city in the region)	The student should analyze the concept of urban domination	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Natural and human geographical characteristics of the city region	The student should analyze the natural and human geographical characteristics of the city region.	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Samples from the city regions (Community Services Region)	The student should review samples from the city regions (Community Services Region)	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Wholesale & Individual Trade Region	The student should review samples from the city's regions (wholesale and individual trade region)	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Industrial and Agricultural Region	The student should review models from the city's regions (industrial and agricultural region).	2	Fourteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Political and administrative region	The student should review samples of the city's regions (political and administrative region)	2	Fifteenth

299. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

300. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
5- Maher Yacoub Moussa, and Huda Khaled Shaaban, The Geographical Idea of the	Main References (Sources)

Concept of Territoriality, undated. 6- Ali Mohamed Diab, The Concept of Territory and Regionalism from a Human Geographical Perspective, 2012. 7- Simin Davoudi , Defining the "city-region", 2010	
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

301. Course Name	
Water Resources Management	
302. Course Code	
EG614	
303. Semester/ Year	
you semester	
304. Date this description was prepared	
19/1/2026	
305. Available Forms of Attendance	
Weekly	
306. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
307. Course administrator name (if more than one name mentioned)	
Prof. Dr. Adnan Odeh Falih	
308. Course Objectives	
- Developing the capabilities of postgraduate students in aspects of physical geography, especially water management and its sources . 2. Opening the horizons of academic program outputs from holders of higher degrees in the labor market.	Course Objectives
309. Teaching and Learning Strategies	
F- Knowledge Objectives : 1. Identify the concept of water resources and their importance in sustainable development. 2. Distinguish between surface and groundwater sources and their characteristics. 3. Familiarity with methods of assessing water resources and measuring their quantities and quality. 4. Knowledge of the principles and objectives of integrated water resource management. b. Skill objectives of the course. 1. Developing the skills of analyzing water resources and evaluating their quantity and quality in different water basins. 2. The use of maps and hydrological data in the study of water resources and their spatial distribution. 3. Applying water planning and management methods to achieve optimal utilization of water resources.	Strategy

4. Ability to estimate the water needs of different sectors such as agriculture, industry, and domestic uses. C. Emotional and Values Goals : 1. Developing environmental awareness and responsibility towards water resources management. 2. Promoting strategic thinking and sustainability of water resources. 3. Developing awareness of the risks surrounding water resources. 4. Promoting the love of scientific and field exploration. 5. Sense of individual and collective responsibility towards water resource management. 6. Instilling sustainable values and behaviors related to the specialization water resources management.	
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310. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	River drainage patterns	The student should learn the concept of river drainage patterns	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Dams and Reservoirs	To understand what dams and reservoirs are	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Rainfall harvesting	The student should be aware of and learn to harvest water	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Aquifers and submersibles	The student should understand the aquifers	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Marshes and swamps	The student should be aware of the concept of marshes and swamps	2	Fifth
Written Exam, Research Requirement and	Lecture, questioning and	Hydrological properties of seawater	The student should learn and understand	2	Sixth

Translation	discussion		what the hydrological characteristics of seawater are.		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Movometric and Formal Calculations of River Basins	The student should understand the engineering characteristics of water ponds.	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Water Balancing Equations	The student should learn the water balance and how to find it.	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Modern Irrigation Methods	The student should be aware of modern irrigation methods and their technologies	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	National Rivers and International Rivers	The student should learn the difference between local and international rivers	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The riches of the seas	The student should understand the riches of the seas and oceans	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Regional and International Waters	The student should be aware of the concept of regional and international waters	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Exam	End of Semester Exam	2	Thirteenth
Written Exam,	Lecture,	Fjords and	To understand	2	Fourteenth

Research Requirement and Translation	questioning and discussion	Rayassat	what the students are and how they arise		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Marine Problems	To be aware of what marine problems are	2	Fifteenth

311. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

312. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
Hydrology Dr. Mahdi Al-Sahaf Online Lectures Lectures prepared by the professor of the subject Water Science Dr Shukr Mahmoud	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

313. Course Name	
Contemporary Urban Problems	
314. Course Code	
EG613	
315. Semester/ Year	
you semester	
316. Date this description was prepared	
19/1/2026	
317. Available Forms of Attendance	
Weekly	
318. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
319. Course administrator name (if more than one name mentioned)	
Prof. Dr. Maher Nasser Abdullah	
320. Course Objectives	
To uncover the most important urban problems resulting from urban growth, and to know the nature of these problems in developing countries and compare them with contemporary urban problems in developed countries.	Course Objectives
321. Teaching and Learning Strategies	
A. Cognitive Objectives A1. Examine the philosophical roots that explain the emergence of contemporary urban problems A2. Diagnosis of the deep and overlapping causes of complex crises	Strategy

in cities A3. Building the capacity to predict urban transformation trends and formulate scientific hypotheses A4. Critique and evaluation of the adopted regional and local master plans and policies and their effectiveness b. Skill objectives of the course. B1. Employing advanced spatial modeling and analysis B2. Devising and designing strategic policy papers B3. Leading field research and interpretive surveys B4. Development and evaluation of urban performance indicators C. Emotional and Values Goals A1- Commitment to the Integrity of Scientific Research and Planning Ethics C2- Consolidating the belief in the necessity of equity in the distribution of services and resources C3. Developing acute awareness of the need to protect the natural built environment	
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322. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban Growth in Developed and Developing Countries: A Comparative Analysis	Knowledge of Urban Growth in Developing and Developed Countries	2	The first
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban Growth Problems and Treatments	Identify Urban Growth and Problems	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Internal Composition of Cities in Developed and Developing Countries: A Comparative Analysis	Identify the interior structure of cities	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Social Composition in Developed and Developing Countries	Knowledge of the social structure in developed countries	2	Fourth
Written Exam,	Lecture,	Urban Transportation Problems and Solutions	Knowledge of urban	2	Fifth

Research Requirement and Translation	questioning and discussion		transportation and its problems		
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban Housing Problems and Solutions	Identifying Urban Housing	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Urban System in Developed and Developing Countries: A Comparative Analysis	Knowledge of the urban system in developed countries	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Field study of the city: foundations and curricula	Find out how to field study the city	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The local climate of the city	Knowledge of the local climate	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Efficiency of the city's community services	Identifying the efficiency of community services	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Spatial dimensions of crime	Identifying the Spatial Dimensions of Crime	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	University and Urban Development	Getting to know the university and urban development	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Postmodern Cities	Knowledge of postmodern cities	2	Thirteenth
Written Exam, Research Requirement and	Lecture, questioning and	Sustainable Cities	Recognize sustainable development	2	Fourteenth

Translation	discussion				
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Critical Discussion Related University Theses	Learn how to discuss messages	2	Fifteenth

323. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

324. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
2- 1- Fouad Bin Ghadban, Sustainable Cities and Urban Project, Safaa Publishing and Distribution House, Amman, 2014. 2-Khalaf Hussain Al-Dulaimi, Thaer Shaker Al-Hiti, Urban Management Strategies, Safaa Publishing and Distribution-Amman, 2018.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

325. Course Name	
English	
326. Course Code	
EG620	
327. Semester/ Year	
you semester	
328. Date this description was prepared	
19/1/2026	
329. Available Forms of Attendance	
Weekly	
330. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
331. Course administrator name (if more than one name mentioned)	
Eng. Salam Abbas Mahmoud	
332. Course Objectives	
- Developing students' skills in comprehending what they read in English written sources - Developing students' skills in writing sentences in English correctly - Enable students to listen well in English - Increasing students' ability to speak English	Course Objectives

333. Teaching and Learning Strategies

A. Cognitive Objectives A1. Familiarize yourself with the basics of the English language related to academic subjects. A2. Proficiency in the use of passive and intellectually constructed sentences in English correctly. A3. Distinguish between sentences with similar and different content A4. Analysis of texts and understanding their content b. Skill objectives of the course. B1. Ability to translate texts B2- Connecting the sentences with each other and turning them in compound sentences B3- Correcting linguistic errors in relation to the study topics B4- Maintaining linguistic dictation C. Emotional and Values Goals C1- Developing the student's skill in the English language, which enhances his scientific potential. C2- Highlighting the linguistic identity of the student through the development of the four skills	Strategy
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334. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Personal observation and written test	Reading emails and passages	Conserving the past	To be able to answer and respond correctly	2	The first
Reading fluency	Reading Comprehension	Indicating reason and result	To develop good reading skills	2	The second
Writing a composition	Writing strategies	Writing an evaluation essay	To improve writing skills	2	The third
Personal observation and written test	Reading emails and passages	Crediting sources	To be able to answer and respond correctly	2	Fourth
Writing a composition	Writing strategies	Verbs for reporting another writer's ideas	To improve writing skills	2	Fifth
Reading fluency	Reading Comprehension	Expressing contrast	To develop good reading skills	2	Sixth
Writing a composition	Writing strategies	Writing a discursive essay	To be able to answer and respond correctly	2	Seventh
Reading fluency	Reading	Describing	To develop good	2	Eighth

	Comprehension	graphs, charts, and statistics	reading skills		
Reading fluency	Reading fluency	Interpreting and translating	To be able to answer and respond correctly	2	Ninth
Writing a composition	Writing strategies	Formal and informal vocabularies	To improve writing skills	2	Tenth
Listening skill	Listening	Discuss questions in groups	To develop listening and speaking skills	2	Eleventh
Speaking skill	Speaking	Conducting an interview	To be able to answer and respond correctly	2	XII
Listening skills	Listening	Presenting results	To develop listening and speaking skills	2	Thirteenth
Speaking skills	Speaking	Presenting data	To be able to answer and respond correctly	2	Fourteenth
Speaking skills	Speaking	Supporting an argument	To develop listening and speaking skills	2	Fifteenth

335. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

336. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
Headway academic Skills 3	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

337. Course Name	Contemporary Problems in Energy Geography
338. Course Code	EG618
339. Semester/ Year	you semester
340. Date this description was prepared	18/1/2026
341. Available Forms of Attendance	

Weekly	
342. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
343. Course administrator name (if more than one name mentioned)	
Assoc. Prof. Dr. Jassim and Hawah Shati	
344. Course Objectives	
It aims to study the problems facing energy investment of all kinds, while indicating the geographical and political risks that threaten the energy supply and the environmental impacts resulting from its use, and to develop spatial strategies to diversify energy resources, reduce dependence on fossil fuels, and link energy sustainability plans with spatial development and the transition to clean energy.	Course Objectives
345. Teaching and Learning Strategies	
A. Cognitive Objectives A1. Knowledge of the scientific foundations of spatial variation management of the distribution of energy resources A2- The possibility of knowing the global and local energy crises with a geographical strategic vision A3. Analysis and evaluation of energy transition plans and their suitability for geographical and environmental determinants A4. Ability to link geographical components with energy investment efficiency and future forecasting A5. Providing philosophical and applied frameworks that contribute to the analysis of energy problems and the possibility of their sustainability. B. Skill Objectives of the Course B1. Developing the skill of using modern technologies to create models that contribute to addressing energy problems. B2. Preparing environmental impact reports for energy projects and predicting their problems and addressing them. B3- Extracting energy data from its sources and analyzing them geographically. B4- The ability to transform energy topics into plans that help map the energy transition C. Emotional and Values Goals A1- Enhancing the researcher's confidence in his ability to change the applied reality of energy sources and their role in sustainable development. A2- Adopting the philosophy of awareness and concern for the	Strategy

environment and society by dealing with energy sources and their fa distribution.

C3- Developing awareness of national responsibility to conserve and optimize the use of energy resources and solve their problems

346. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The concept of energy, its importance, sources, types and characteristics	Enable students to know what energy is and use it to invent new geographic solutions to address problems	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The development of geographical thought in the study of energy	The student's knowledge has evolved from understanding the evolution of energy as a natural resource subject to environmental determinism, all the way to the era of automation and the shift towards smart energy	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Problems of Switching from Fossil Energy to Renewable Energy	Turning the student into a geographer who possesses the tools and information for the possibility of the transition towards sustainable energy	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental Problems and Impacts of Energy Consumption	Enable the student to deal with the problems resulting from energy consumption and know the environmental impact of them and the possibility of mitigating their effects	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Energy and Sustainable Development	Enable students to formulate spatial models that ensure a safe transition to clean energy and achieve spatial justice	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Energy and Climate Change	Building a student mindset capable of analyzing climate problems locally and regionally resulting from energy use, and devising future planning solutions	2	Sixth
Written Exam , Research	Lecture, questioning and	International competition for energy sources	The student's ability to analyze the spatial and quantitative analysis of	2	Seventh

Requirement and Translation	discussion		energy competition and face geopolitical challenges		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Energy and population (the relationship of energy to population distribution and demand for energy resources)	Building a student mindset capable of dismantling the problems of energy, spatial justice, and energy poverty and proposing sustainable planning scenarios	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Energy Gap and Spatial Variation in Energy Resources	Enable the student to analyze the geographical variation in the distribution of energy resources and their consumption rates, and to transform digital and spatial data into strategic solutions that achieve spatial justice.	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical Factors Affecting Energy Investment	Knowledge of how geographical factors are involved and their dynamic impact on the efficiency, productivity and reliability of energy systems	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Problems Facing Energy Investment	A geographical preparation that has experience in confronting the problems of the economy and turning them into investment opportunities that promote sustainable development	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Integrated Energy Resources Management	The student's knowledge of the integrated management of the energy system and its requirements based on the quantitative analysis between scarce resources and population increase	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Artificial Intelligence and a Course in Energy Efficiency Improvement	Enabling students to deal with artificial intelligence technologies in developing and managing energy, raising its efficiency and ensuring its sustainability	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Energy Problems (Muthanna Case Study)	Preparing a student capable of dealing with energy problems and providing applied solutions that suit the specificity of the required place	2	Fourteenth

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Successful Experiences in Energy Project Investment	Enable the student to analyze the mechanisms of success in energy experiments and extract the most important factors of their success and the possibility of benefiting from them in the local environment.	2	Fifteenth
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347. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

348. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Energy Geography: Heritage, Heterogeneity and New Directions, Stefan Bouzarovski, Martin Pasqualetti, Routledge, England ,2020 . 2- Chaah Abdel Salam, Priorities in the Geography of Energy, 1st Edition, Rabat, Al-Ma'arif Press, 1988. 3- Sobhi Ahmed Al-Dulaimi, Geography of Energy, 1st Edition, Amman, Amjad Publishing House, 2017.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

349. Course Name	
Studies in Sustainable Development	
350. Course Code	
EG616	
351. Semester/ Year	
you semester	
352. Date this description was prepared	
18/1/2026	
353. Available Forms of Attendance	
Weekly	
354. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
355. Course administrator name (if more than one name mentioned)	
Prof. Dr. Telephone Tip Fatin	
356. Course Objectives	
Identify the concept of sustainable development and its goals, the basic concepts of the philosophy of the sustainable environment, as well as its axes, the interrelated relationships between the axes of the philosophy of the sustainable environment, and identify the concept of lifelong education, environmental education, green building, and energy sustainability.	Course Objectives
357. Teaching and Learning Strategies	
A. Cognitive Objectives A1- Identifying the nature of sustainable development, the basic concepts of the philosophy of the sustainable environment and its axes. A2. Mastering the use of the SDGs A3. Distinguishing the interrelationships between the axes of the	Strategy

philosophy of the sustainable environment A4. Analysis of the importance of sustainable human development b. Skill objectives of the course. B1. Ability to define sustainable development B2. Use of the connotations of the Sustainable Development Goals in public life B3- Correcting the concept of citizenship and its types. B4- Maintaining sustainable development goals stemming from reality C. Emotional and Values Goals C1C1- The student should know the importance of sustainable development in the society 2. C2Feel the value of using the SDGs and their impact on the environment	
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358. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	What is sustainable development?	Understanding what sustainable development is	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Basic concepts and themes of the philosophy of the sustainable environment	Knowledge of the basic concepts and themes of the philosophy of the sustainable environment	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Sustainable Development Goals	Identifying the Sustainable Development Goals	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Interrelationships between the axes of the philosophy of the sustainable environment	Understanding the interrelationships between the axes of the philosophy of the sustainable environment	2	Fourth

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Green Economy is a Sustainable Economic Model	Identifying the Green Economy as a Sustainable Economic Model	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Lifelong education	Learn about lifelong education	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental Education	Knowledge of Environmental Education	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental Education	Knowledge of Types of Environmental Education	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Sustainable Green Building	Identifying sustainable green building	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Energy Sustainability	Energy Sustainability Knowledge	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Recycling	Learn about recycling	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Sustainable Human Development	Recognizing Sustainable Human Development	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Community Service	Community Service Knowledge	2	Thirteenth
Written Exam , Research Requirement and	Lecture, questioning and discussion	Exam	Exam	2	Fourteenth

Translation					
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Research Discussion	Understanding Research Results	2	Fifteenth

359. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

360. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1. Philosophy of Sustainable Environment: Prof. Dr. Muhammad Ali Al-Anbari 2. Sustainable Development: Dr. Mohammad Kazem Mantoub, Dr. Raad Taleb Kazim, Dezfras Trad	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

361. Course Name	
Dryland geomorphology	
362. Course Code	
EG608	
363. Semester/ Year	
you semester	
364. Date this description was prepared	
19/1/2026	
365. Available Forms of Attendance	
Weekly	
366. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
367. Course administrator name (if more than one name mentioned)	
Prof. Dr. Sarhan Naim Tashtoush	
368. Course Objectives	
The course aims to: interpret and analyze the nature of dry lands and its concept, drought, its concept, causes and types, soils and their problems, the nature of the climate of dry areas, and the forms of the earth's surface in dry areas, in addition to adopting modern geographical techniques in analyzing the forms of the land surface and the geographical environment of these areas.	Course Objectives
369. Teaching and Learning Strategies	
G- Knowledge Objectives: - Understanding and understanding the environmental characteristics of drylands. - Knowledge of weathering processes of all kinds (mechanical and chemical) prevailing in dry lands. - Dynamic management of wind processes, wind sculpting and erosion mechanisms. - Understanding the role of temporary running water (awareness of	Strategy

the danger of floods, rainfall). 5. Analysis of geomorphological and environmental problems in dry lands. 6. Resource Assessment and Sustainable Development in Dry Environments. b. Skill objectives of the course. 1. Cognitive and analytical skills: by distinguishing land forms, identifying the mechanisms of their formation, and analyzing natural hazards. 2. Technical and field skills, which lie in reading and analyzing maps, using modern technologies, and fieldwork. 3. Applied and problem-solving skills, through the preparation of environmental assessment maps, desertification control planning, and water resources management. 4. Research and reporting skills, represented in writing scientific reports and critical environmental thinking. C. Emotional and Values Goals: 1. Developing environmental awareness and responsibility towards dry areas. 2. Promoting strategic thinking and sustainability. 3- Developing the values of scientific research and environmental ethics. 4. Developing awareness of environmental risks. 4. Estimating the fragile nature of drylands. 5. Promoting the love of scientific and field exploration. 6. A sense of individual and collective responsibility. 7. Instilling sustainable values and behaviors related to the specialization of geomorphology.	
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370. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Dryland Concept, Dryland Drought (Types, Drought Index) Aridity Index	The student should learn the concept of land geomorphology Dry	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Climate and climatic features in drylands	The student should understand the characteristics and characteristics of the climate in drylands	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geomorphological characteristics of drylands	The student should be aware of the characteristics of geomorphological drylands	2	The third
Written Exam , Research	Lecture, questioning	Geomorphological	The student should understand	2	Fourth

Requirement and Translation	and discussion	processes in drylands (Weathering, its types, erosion, and types)	the types of geomorphological processes that prevail in drylands		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Soils, and their problems, in drylands	The student should learn the concept of soil, its types, and its problems in drylands	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Groundwater in drylands	The student should study groundwater, its carrier layers, its problems, and ways to manage it in drylands.	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geomorphological features in drylands	The student should understand the geomorphological features of drylands, their classification, and the factors that led to their formation.	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geomorphology of valley basins in drylands	The student should learn the geomorphology of the valley basins and their geometric characteristics	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Factors Affecting Runoff and Water Discharge in River Basins and Dry Valleys	The student should be aware of the factors affecting the flow and water discharge in the wadis basins of dry lands.	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Management and Development of Natural Resources in Drylands	The student should learn the management and development of natural resources in drylands.	2	Tenth

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Components of desertification and its forms and sand dunes in drylands	The student should understand the components, types, forms and degrees of desertification in drylands	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geomorphological Hazards in Drylands	The student should be aware of the geomorphological hazards in dry lands	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geomorphological fragility in drylands	The student should learn the geomorphological fragility of drylands	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Flood Fans in Dry Lands	The student should understand what flood fans are and how they are formed in dry lands.	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Biodiversity of drylands	The student should be aware of what biodiversity is in drylands	2	Fifteenth

371. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

372. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Waleed Al-Hadi Mohamed Shawari, Physical Geography of Arid Lands, Riyadh, Saudi Arabia, 2014. 2- Hassan Sayyid Ahmed Abu Al- Enein, The Topography of the Renaissance Earth's Surface, Beirut, Lebanon, 1966.	Main References (Sources)
	Recommended books and references (scientific

	journals, reports...)
	Electronic References, Websites

Course Description Form

373. Course Name	
Climate Change	
374. Course Code	
EG615	
375. Semester/ Year	
you semester	
376. Date this description was prepared	
19/1/2026	
377. Available Forms of Attendance	
Weekly	
378. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
379. Course administrator name (if more than one name mentioned)	
Prof. Dr. Rafed Abdel Nabi Ibrahim	
380. Course Objectives	
It aims to introduce the concept of climate change, its causes and effects on humans, agriculture, industry, transport and all areas of life, and to develop adaptation mechanisms for climate change and its mitigation effects by following several means and reviewing the most prominent global agreements related to	Course Objectives

climate change and their most prominent decisions, especially the Kyoto Agreement and Paris					
381. Teaching and Learning Strategies					
A. Cognitive Objectives A1- Understanding that the student understands the concept climate change A2- Remembering a concept of climate change, its causes and effects on the global climate A3- Knowledge of the differences between climate changes, climate changes and climate fluctuations A4- b. Skill objectives of the course. B1- Manual skills through different weather and climatic mapping B2- Technical skills from training students using global climatic sites and analyzing the maps on these sites due to the reliance of these sites on advanced satellites B3- Skills to highlight the importance of climate change and impact on various human activities B4- C. Emotional and Values Goals A1- Self-awareness, emotion control, self-motivation and social skills					Strategy
382. Course Structure					
Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Concept of Change, Change, Climate Volatility and Feedback	Students' knowledge and understanding of the concepts of climate changes, changes, fluctuations and feedback.	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	What is the evidence that the Earth's climate has changed since the pre-industrial era	Knowledge and understanding of students through indicators that illustrate the change of the Earth's climate before the industrial era.	2	The second
Written Exam , Research	Lecture, questioning	Human causes of	Students' knowledge.	2	The third

Requirement and Translation	and discussion	climate fluctuation	understanding and analysis of the human causes of climate change		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Natural causes of climate change	Students' knowledge and understanding of the natural causes of climate change	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	How to uncover the climate of the past and review the times that the climate has gone through	Knowledge of students through indicators on how to detect the climate of the past, students' review, and understanding the times that the climate has gone through since the creation of the earth to the present	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Global warming is understood to cause its effects	Knowledge and understanding of the concept of heat warming and reviewing its causes, components and effects	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Climate Change Indicators Regionally and Globally	Students' knowledge does not highlight the indicators of climate change Iraq Case study	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Climate Change and its Impact on the Environment	Students' knowledge and understanding of the most prominent climate impacts on the environment	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Regional and global impacts of climate change	Students' knowledge and understanding of the most prominent regional and global impacts of climate change	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Exam	Evaluation of Semester Exam Results	2	Tenth

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The impact of climate change on human health, agriculture, transportation, and energy	Students' knowledge and understanding of the impact of change on water resources in Iraq Case study	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Impact of Climate Change on Water Resources	Students' knowledge and understanding of the impact of climate change on the health, agriculture, industry and transport sectors	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	International Conferences on Climate Change	Students' knowledge and understanding of international conferences related to climate change and discussion of their recommendations	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Climate Change Mitigation and Adaptation Options	Knowledge, understanding and training of students on the most prominent mitigation and adaptation options to reduce climate change	2	Fourteenth
Written Exam		Review of Student Research Discussion	Evaluating Students' Research and Correcting Errors	2	Fifteenth

383. Course Evaluation

Oral Tests
Written Tests
Reporting, Research & Translation

384. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
Climate Change between the Past, Present and Future Yousef Mohammed Ali Al-Hathal Salam Al-Jubouri Phone,	Main References (Sources)

2014 Climate Change Synthesis Report 2001	
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

385. Course Name	
	Contemporary Problems in Geopolitics
386. Course Code	
	EG609
387. Semester/ Year	

you semester	
388. Date this description was prepared	
19/1/2026	
389. Available Forms of Attendance	
Weekly	
390. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
391. Course administrator name (if more than one name mentioned)	
Prof. Dr. Adnan Kazem Jabbar	
392. Course Objectives	
• The course aims to: study contemporary global problems and crises from the perspective of geopolitics and analyze them accurately in order to identify their causes and repercussions on global stability.	Course Objectives
393. Teaching and Learning Strategies	
Cognitive Objectives 1- The student will be introduced to the concept of contemporary problems in geopolitics and their various dimensions. 2- To identify the most prominent contemporary geopolitical problems at the local, regional and international levels. 3- To explain the causes of conflicts and political conflicts in different regions of the world. 4- To clarify the relationship between geopolitics and contemporary global political and economic transformations. Skills Goals 1. The student uses political and geopolitical maps in the analysis of contemporary problems. 2. Identify the locations of conflict zones and conflict on maps accurately. 3- Employing Geographic Information Systems (GIS) in the study of contemporary geopolitical issues. 4. It shall collect data and information related to geopolitical problems from its various sources. Emotional or Values Goals 1. The student appreciates the importance of geopolitics in understanding contemporary issues and problems. 2. The applicant must show interest in following up on regional and international political events and developments. 3. Commit to scientific objectivity when analyzing various geopolitical issues. 4. Respect multiple points of view in interpreting contemporary political problems.	Strategy
394. Course Structure	

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	What is geopolitics, its philosophy and its role in understanding contemporary international problems	Explain the nature and philosophy of geopolitics and analyze the development of its various concepts and schools of thought.	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Climate Change as a Geopolitical Issue (Climate Migration, International Security, and Conflict Zones Associated with Climate Change)	Analyzing the geopolitical dimensions of climate change and interpreting its impact on international relations and global security.	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Energy transition and changing the balance of power	Assess the geopolitical importance of traditional energy sources and their ongoing role in shaping international relations and competition among countries.	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Digital geopolitics (digital sovereignty and digital space)	The student should be able to employ digital sovereignty in the power of the state	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Border disputes and their impact on relations between countries	Analyzing the geographical, political, and legal foundations of border disputes and interpreting their role in shaping contemporary international relations	2	Fifth
Written Exam ,	Lecture, questioning	Separatist Identities, and Their Impact on	Analyze the geographical,	2	Sixth

Research Requirement and Translation	and discussion	State Building in Cyberspace	political, and cultural underpinnings of separatist identities and interpret their role in the reshaping of the contemporary state.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Cities and their role in shaping geopolitics (global cities)	Analyze the geopolitical role of cities as an influential actor in the contemporary world order.	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The geopolitics of digital currencies (the dollar, international dominance, cryptocurrencies and monetary sovereignty)	Explain the role of financial technology and digital innovations in reshaping patterns of power and influence in the global economy.	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Biogeopolitical and biological problems (biological weapons and genetic engineering)	Analysis of the Geopolitical Dimensions of Biological and Biological Developments and Their Impact on National and International Security	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Goeconomics and the Formation of Global Space (U.S.- China Trade War,)	Applying geopolitical and goeconomic approaches to interpreting international competition for biological resources and bioknowledge.	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geopolitical Understanding of Demographic Problems and Their Implications for State Power	Explain the geopolitical impacts of the population explosion in Africa and its impact on development, migration, and	2	Eleventh

			regional security.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Selected geopolitical problems	Interpret the implications of regional conflicts and strategic competition on the structure of the regional order in the Middle East.	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Selected geopolitical problems	Identify contemporary geopolitical problems of scientific and strategic importance	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Discussion of Students' Research	Identify contemporary geopolitical problems of scientific and strategic importance and select appropriate research topics to study them.	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Monthly exam		2	Fifteenth

395. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

396. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program

Required Textbooks (Methodology, if any)

Mohamed Mahmoud El-Deeb
Contemporary Political Geography, 2008

Main References (Sources)

Peter Taylor, The Political Geography of Our Contemporary World, Part One and Two

Colin Flint The Geography of War and Peace Part One and Part Two	
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

397. Course Name	
Remote Sensing	
398. Course Code	
EG617	
399. Semester/ Year	
you semester	
400. Date this description was prepared	
19/1/2026	
401. Available Forms of Attendance	
Weekly	
402. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
403. Course administrator name (if more than one name mentioned)	
Assoc. Prof. Dr. Ali Fadel Hassan	
404. Course Objectives	
Delivering the scientific material to the minds of students easily and easily so that it is easy for them to understand and	Course Objectives

understand it and train them to use modern software that suits their research requirements in the field of using remote sensing technology in various geographical studies. • Helping students to acquire information, knowledge, skills and experiences in the field of dealing with the analysis and understanding of satellite visuals in order to develop the student's abilities to express and write research and scientific reports and build his integrated personality on a sound scientific basis.	
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405. Teaching and Learning Strategies

A- Cognitive Goals	Strategy
A1- Identify the principles of remote sensing, its sources (air and space), and how electromagnetic energy interacts with the atmosphere and the earth's surface. A2. Familiarity with the types of satellites, space orbits, and sensors, and understanding the different types of accuracy (spatial, spectral, radiation, and temporal). A3- Acquire the necessary knowledge to read and interpret satellite imagery and extract natural and human phenomena from them. A4. Study the fields in which remote sensing is used, such as: urban planning, agriculture, disaster management and environmental hazards, and other studies. b. Skill objectives of the course. B1- Using modern software that is compatible with their research requirements in the field of using remote sensing technology in various geographical studies. B2- Helping students to acquire information, knowledge, skills and experiences in the field of dealing with the analysis and understanding of satellite visuals in order to develop the student's abilities to express and write research and scientific reports and build his integrated personality on a sound scientific basis . C. Emotional and Values Goals C1- Developing awareness of the importance of natural resources and contributing to the reduction of natural disasters using satellite imagery A2- Motivating students to ask questions, take notes, and solve spatial problems accurately and objectively. C3- Enhancing confidence in the use of geographical analysis tools and positive interaction with modern technologies	

406. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Introduction to the concept of geographic technologies	The student should be able to understand the types of modern	2	The first

			geographical technologies		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Remote Sensing Technology Foundations, Principles and Definition	The student should be able to learn about the concept of remote sensing technology	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Components of remote sensing technology and the most important systems used today	The student should be able to know the importance of remote sensing technology and its uses nowadays	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The most important remote sensing applications in the field of geography	The student should know the most important fields in which remote sensing is used in the study of some modern scientific disciplines.	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Top Global Positioning Systems	The student should know the technique of the GPS and its mechanism of operation	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	American- Russian-Chinese- European System	The student should be able to know the types of positioning techniques and systems	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	U.S. GPS Technology Foundations, Principles & Definition	The student should understand the characteristics of the American GPS technology.	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Components of GPS technology and the most important systems used today	The student should be able to understand the mechanism of working of GPS technology	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The most important applications of GPS technology in the field of geography	The student should be able to use GPS technology	2	Ninth
Written Exam , Research	Lecture, questioning	Aerial photography technology:	The student should be able to	2	Tenth

Requirement and Translation	and discussion	foundations, principles and definition	understand the mechanism of work and the characteristics of aerial photography technology.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The most important applications of aerial photography technology in the field of geography	The student should be able to apply aerial photography technology in the field of geography	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Drone Technology	The student should be able to understand the mechanism of the drone	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The use of drone technology in the field of geographical studies	The student should be able to work on the outputs of drones and their uses.	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geometric Survey Technology for the Purpose of Stabilizing Coordinates	The student should be able to apply the technique of ground survey of geographical features for the purpose of fixing coordinates	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Application of geographical techniques in the field of various geographical studies	The student should be able to apply geographical techniques together in the field of various geographical studies.	2	Fifteenth

407. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

408. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
<i>Njoku, Eni, ed. (2014). Encyclopedia of remote sensing. The encyclopedia of earth sciences series. New York: Springer</i>	Main References (Sources)

<u>Reference. ISBN 978-0-387-36698-2. OCLC 880118890.</u> • Schowengerdt, Robert A. (2007). <u>Remote sensing: models and methods for image processing</u> (3rd ed.). <u>Academic Press</u>. p. 2. ISBN 978-0-12-369407-2. Archived from the original on 1 May 2016. Retrieved 15 November 2015. • Schott, John Robert (2007). <u>Remote sensing: the image chain approach</u> (2nd ed.). <u>Oxford University Press</u>. p. 1. ISBN 978-0-19-517817-3. Archived from the original on 24 April 2016. Retrieved 15 November 2015.	
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

409. Course Name	
	Geomorphological Hazards
410. Course Code	
	EG610
411. Semester/ Year	
	you semester
412. Date this description was prepared	

19/1/2026	
413. Available Forms of Attendance	
Weekly	
414. Number of Hours (Total) / Number of Credits (Total)	
30 Hours Hour	
415. Course administrator name (if more than one name mentioned)	
Prof. Dr. Sarhan Naim Tashtoush	
416. Course Objectives	
This course for the first semester aims to study geomorphological hazards by reviewing the geomorphic factors and processes that cause the occurrence of risks that threaten the population and their economic and social activities in various natural environments, as well as finding solutions to avoid these problems.	Course Objectives
417. Teaching and Learning Strategies	
A. Cognitive Objectives A-1. Define the concept of geomorphological hazards and distinguish its different types. A-2 Interpretation of natural and human factors causing geomorphological hazards. A-3. Analysis of geomorphological risk assessment methods and measurement of their severity. A-4 - Clarifying the mechanisms of sand dunes encroachment and their environmental and economic impacts. B. Skills Objectives: B-1. Identification of geomorphological hazard areas using spatial maps and images. B-2. Applying geomorphological risk assessment methods in the field and in office. B-3 - Use of Geographic Information Systems (GIS) and Remote Sensing in Risk Analysis. B-4. Preparing hazard maps for sand dunes, floods and floods. C. Affective Objectives C-1 recognizes the importance of studying geomorphological hazards in the protection of humans and the environment. C-2 Appreciates the role of scientific research in reducing the risks of natural disasters. C.3. Develops a sense of responsibility towards protecting natural resources from degradation. C-4 Adopt positive attitudes towards sustainable environmental planning.	Strategy

418. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Concept of Geomorphic Hazards	The student should know what the geomorphological risks are.	2	The first
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geomorphological Hazard Assessment	The student should understand how to assess geomorphological hazards	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Dune Creep	The student should analyze the dangers of dune crawling	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Soil ablation	The student should explain the effects of soil winnowing	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Floods	The student should know what are the risks resulting from floods	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Canal erosion	The student should understand how the risks caused by gully erosion occur	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Deepening the flood fan	The student should analyze the risks of deepening the fan.	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Movement of Materials	The student should compare the risks caused by the types of material movement	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Salt Weathering	Explain the effects of salt weathering	2	Ninth

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Mid-Course Exam		2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Dust storms in dry areas	The student should know what the geomorphological risks are.	2	Eleventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Hydrosclerosis (the collapse of soil after saturation with water)	The student should understand how to assess geomorphological hazards	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Flooding and riverside erosion	The student should analyze the dangers of dune crawling	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Scientific trip	The student should explain the effects of soil winnowing	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Karst Dangers	The student should analyze the risks resulting from the karst phenomenon	2	Fifteenth

419. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

420. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1-John Erickson (2002), Environmental Geology, New York. 2- Carla W. Montgomery (2006) Environmental Geology, New York. 3-Kristiina A. Vogt et al,(1996) Ecosystems :Balancing Science With Management, New York. 4-Thornbush, Mary J. (2012) STUDIES OF OXFORD STONE AS A CONTRIBUTION TO ENVIRONMENTAL GEOMORPHOLOGY, <i>Journal of Environmental Geography</i>	Main References (Sources)

5- Bierman, Paul R. and David R. Montgomery (2014) <i>Key Concepts in Geomorphology</i>, Encyclopedia of Planetary Land Forms, W.H. Freeman, New York. 6- Gupta, Gauri Shankar (2019) , Land Degradation and Challenges of Food Security, Review of European Studies; Vol. 11, No. 1; Canadian Center of Science and Education. 7- Agegnehu, Getachew, A.K. Srivastava and Bird, Michael I. (2017) The role of biochar and biochar-compost in improving soil quality and crop performance: A review, Applied Soil Ecology ,119, Elsevier B.V. 8- Tunç ,Gökhan, Mertol ,Halit Cenan and Akış ,Tolga(2024) , Lessons learned from four recent Turkish earthquakes: SivriceElazığ, Aegean Sea, and Dual Kahramanmaraş, Natural Hazards. 9- Dinand Alkema & Angelo Cavallin (2003) Geomorphologic risk assessment for EIA., Studi Trentini di Scienze Naturali – Acta Geologica v. 78. 10- 10-Al-Ahdab, Ibrahim bin Suleiman (1429 A.H.) Geography of Risks, King Fahd National Monument, Riyadh. 11-Mr. Ahmed Al-Khatib (2008), Land Pollution, Alexandria.	
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

421. Course Name	Geography of International Relations
422. Course Code	EG611
423. Semester/ Year	you semester
424. Date this description was prepared	

19/1/2026

425. Available Forms of Attendance

Weekly

426. Number of Hours (Total) / Number of Credits (Total)

30 Hours Hour

427. Course administrator name (if more than one name mentioned)

Prof. Dr. Latif Kamel Kidney

428. Course Objectives

- **Revealing the geographies of international relations, as well as following up on the changes that occur on the political map of the world, not to mention revealing the role of geographical capabilities in drawing the external behavior of actors in the system of international relations.**

Course Objectives

429. Teaching and Learning Strategies

A. Cognitive Objectives

A1. Familiarity with the concept of international relations

A2. Mastery of the use of terminology for international relations

A3. Distinction between regional and international actors and powers

A4. Analysis of the structure of international relations

b. Skill objectives of the course.

B1- Ability to understand the course topics

B2. Use of Course-Specific Semantics in International Relations

B3. Correcting the Theories Explaining International Relations

B4. Being able to know the performance of actors in the

international system

C. Emotional and Values Goals

A1- Respect for civilizational and human diversity

C2 - Sense of Human Responsibility

C3 - Objectivity and Neutrality

Strategy

430. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Concept of the Geography of International Relations, its Stages of Development, Methods and Types	Make the student know the concept of the geography of international relations	2	The first
Written Exam , Research	Lecture, questioning	Digital Colonialism	Make the student know the	2	The second

Requirement and Translation	and discussion	Foundations and Applications	concept of digital colonization		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Arguments for the Western Democratic Model in International Relations	Make the student know the concept of the democratic model	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Health Diplomacy and its Geostrategic Applications	Make the student aware of health diplomacy and its applications	2	Fourth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	International Relations between Power Narratives and the Power of Digital Narratives	Make the student know the power of digital narrative	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geo-Data Conflict and its Applications in International Relations	Make the student know the concept of geo-data conflict and its applications	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Liquid Polarity and its Geostrategic Applications	Make the student know the concept of liquid polarity and its applications	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Digital Colonialism and its Geopolitical Applications	Make the student know the concept of digital colonialism and its applications	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Tight Chaos in International Relations	Making the student aware of the concept of tight chaos in international relations	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Neuro Diplomacy and its Geopolitical Applications	Make the student know the concept of neurodiplomacy and its applications	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Tropical colonialism in international relations	Make the student know the concept of orbital colonialism	2	Eleventh
Written Exam ,	Lecture,	Smart	Make the student	2	XII

Research Requirement and Translation	questioning and discussion	Containment Strategy in International Relations	know the smart containment strategy		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Geopolitics of Western Values and Their Geostrategic Applications	Make the student know the geopolitics of Western values	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geo-Semiotics: Geopolitical Foundations and Applications	Make the student know the concept of geosemiotics	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Concept of the Geography of International Relations, its Stages of Development, Methods and Types	Make the student know the role of international actors in the international system	2	Fifteenth

431. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

432. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
1- Klaus Dodds and David Atkinson, Political Geography in One Hundred Years of Global Geopolitical Development, Part 1. 2- Tim Marshall, How Geography Shapes the Fate of Nations, 2021.	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites

Course Description Form

433. Course Name
Applications of Artificial Intelligence in Contemporary Population Studies
434. Course Code
EG619
435. Semester/ Year
you semester
436. Date this description was prepared
19/1/2026
437. Available Forms of Attendance
Weekly
438. Number of Hours (Total) / Number of Credits (Total)
30 Hours Hour
439. Course administrator name (if more than one name mentioned)
Assoc. Prof. Dr. Shaker Awad Dahi

440. Course Objectives

- Consolidating the theoretical and philosophical framework of artificial intelligence in population studies, by analyzing the development of intelligent models and their relationship to contemporary demographic analysis, and deepening the skills of analyzing large and unstructured population data from multiple sources (censuses, surveys, administrative records, mobile phone data, social media, and evaluating the efficiency and accuracy of AI-based population predictive models and comparing them with traditional demographic statistical methods, etc. The function of artificial intelligence in uncovering future population scenarios and supporting population planning and sustainable development policies.

Course Objectives

441. Teaching and Learning Strategies

A. Cognitive Objectives

A1- To know the concept of artificial intelligence and its most important technologies used in population studies.

A2. Clarify the areas of employing artificial intelligence in the analysis of population data.

A3. Explain the role of artificial intelligence in predicting population growth, migration, fertility, and mortality.

A4. Distinguish between traditional methods and artificial intelligence methods in population studies.

b. Skill objectives of the course.

B1. Employ artificial intelligence applications in the processing and analysis of population data.

B2. The applicant shall use artificial intelligence tools to extract and interpret population indicators.

B3. Apply population forecasting models using modern technologies.

B4. Prepare scientific reports or presentations that illustrate the results of population analyses supported by artificial intelligence.

C. Emotional and Values Goals

A1- The applicant should show interest in following up on the latest technological developments in the field of population geography.

C2- The applicant must adhere to scientific ethics when using artificial intelligence tools and population data.

C3- Realize the importance of the responsible use of artificial intelligence in the service of society and population development.

Strategy

442. Course Structure

Evaluation Method	Learning method	Unit Name or Subject	Required Learning Outcomes	Watches	The week
Written Exam	Lecture,	The Concept of	To explain the	2	The first

, Research Requirement and Translation	questioning and discussion	Geographic Artificial Intelligence And his role in scientific research Artificial Intelligence Research Trends The Importance of Artificial Intelligence in Geographical Studies	concept of geographic artificial intelligence and its role in the development of geographical scientific research methods and methods. To distinguish the recent trends in artificial intelligence research and the potential to employ them in geographical and population studies. It should assess the importance of artificial intelligence applications in addressing geographical problems and analyzing spatial phenomena.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Applications of Artificial Intelligence in Human Geography	To employ artificial intelligence applications in the study and analysis of human phenomena and their spatial distribution.	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Artificial Intelligence and Population Growth	To analyze the relationship between artificial intelligence technologies and population growth trends and predict its future trajectories.	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Using Artificial Intelligence in Population Data Analysis	To apply artificial intelligence tools in processing and analyzing population data and extracting demographic indicators.	2	Fourth

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Population Studies in the Age of Artificial Intelligence	To discuss the methodological shifts that artificial intelligence has brought about in contemporary population studies.	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Impact of Artificial Intelligence on the Population Fertility Rate	Explain the role of artificial intelligence in analyzing population fertility patterns and predicting their future changes.	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Impact of Artificial Intelligence on Mortality (Maternal Mortality as a Model)	To evaluate the contributions of AI to the study of maternal mortality and improve the prediction of health risks.	2	Seventh
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Predicting Population Variables in Iraq Using Artificial Intelligence	To build predictive models of population variables in Iraq based on artificial intelligence techniques.	2	Eighth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The role of artificial intelligence in reducing crime	To clarify the role of artificial intelligence in analyzing the spatial patterns of crime and supporting preventive policies.	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Role of Artificial Intelligence to Reduce Poverty and Unemployment	Analyze the potential of AI to support policies aimed at reducing poverty and unemployment.	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Impact of Artificial Intelligence on Population Migration	Explain the impact of artificial intelligence in studying population migration trends and the factors affecting them.	2	Eleventh
Written Exam , Research Requirement and	Lecture, questioning and discussion	The Impact of Artificial Intelligence on the Decline in	Assess the economic and social impacts of AI on household	2	XII

Translation		Household Income	income levels.		
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Impact of Artificial Intelligence on Violence Rates on Women	Analyze the role of artificial intelligence in monitoring violence against women and providing tools to reduce it.	2	Thirteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Studying the ethical, legal, and social dimensions of using AI in population data analysis.	To discuss the ethical, legal, and social challenges associated with the use of AI in population studies	2	Fourteenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Employing artificial intelligence in uncovering future population scenarios and supporting population planning.	To employ AI technologies in building future population scenarios and supporting sustainable population planning.	2	Fifteenth

443. Course Evaluation

Oral Tests

Written Tests

Reporting, Research & Translation

444. Learning and Teaching Resources

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	Required Textbooks (Methodology, if any)
Geographic Artificial Intelligence Machine Learning for Spatial Data Analysis Handbook of Geospatial Artificial Intelligence Spatial Analysis: A Guide for Ecologists	Main References (Sources)
	Recommended books and references (scientific journals, reports...)
	Electronic References, Websites