



Ministry of Higher Education and Scientific Research
Service Supervision and calendar Science
to guarantee Quality and reliance Accreditation



Academic program and course guide

Geography - PhD
2025-2026

Academic Program Description Form

University Name: Wasit

Faculty/Institute: College of Education for Human Sciences

Scientific Department: Geography

Academic or Professional Program Name: Geography Ph.D

Final Certificate Name: Ph.D in Geography

Academic System: Semester

Description Preparation Date: 1/ 9/ 2025

File Completion Date: 1/9/2025



Signature:

Head of Department Name:

الاستاذ الدكتور
حسين كريم محمد الساعدي
رئيس قسم الجغرافية

Signature:

Scientific Associate Name:

Prof. Dr.
Nasser Wali Faryeh
Deputy Dean For Academic
and Postgraduate Affairs

22/6/2026

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

22/6/2026

Prof. Dr.
Abdullah Hammod Arrak Al-Quraishi
Dean of the College of Education
for Humanities

Approval of the Dean

22/6/2026

Program Vision	.1
Excellence in the field of geographical studies and scientific research in a way that serves the community. The department's vision stems from the vision of the College of Education for Human Sciences and the university in creating a solid foundation for building students equipped with science and knowledge by preparing them professionally and scientifically to raise the level of the department and the college and to work on expanding and qualifying students in a way that meets the global standards of universities.	

Program message	.2
The Geography Department is concerned with studying natural and human phenomena and the interrelationships between them, and identifying their characteristics and distribution patterns. The department is keen to provide qualified national personnel who are field-trained in various geographical fields and their technologies to contribute to achieving the goals of development plans and to meet the requirements of the labor market. The department deals with research and studies conducted by researchers, as well as scientific consultations. Opening training courses in various fields to expand the scope of geographical thought and applications. The department participates in stimulating the intellectual and cultural movement of geography and works to keep pace with scientific developments that ensure the advancement of geographical sciences.	

Program objectives	.3
The objectives of the Geography Department can be divided into two types: First: General Objectives: Spreading the spirit of scientific research, through which a society can be built that is capable of dealing with the surrounding environment in a correct and sound manner. Second: Specific Objectives:	

It is the preparation of specialized scientific personnel in the various branches of geography –1
 who take upon themselves the task of teaching this science in middle, high and preparatory
 schools.

Qualifying and enabling students to advance in the scientific and educational process –2
 according to modern teaching methods in the science of geography.

To provide students with the latest scientific developments and keep them up-to-date with –3
 the relationship between geography and other sciences.

The Department of Geography aims to contribute to the continuous development of –4
 improving and advancing the quality of education according to scientific standards that
 address all problems through the graduation of students who are proficient in fieldwork,
 which represents the real laboratory of geography, and who are able to interact with various
 civil and community institutions.

Developing intellectual awareness to keep pace with scientific developments in the field of –5
 geographical analysis of natural and human phenomena and the interrelationships between
 them, and linking this to contemporary issues and the needs of society.

Program accreditation .4
The Geography Department is seeking program accreditation.

Other external influences .5
The department's outputs are based on the needs of public and private schools.

* The notes may include whether the course is core or elective. .

Expected learning outcomes of the program .6	
Knowledge	
	To provide students in the Geography ➤ Department with a wealth of knowledge,

	including an understanding of the natural and human aspects of the Earth and how to utilize its resources.
Skills	
	To provide graduates of the Geography Department with many skills, namely teaching skills using many illustrative methods and techniques that ensure the delivery of information to students at different levels.
Values	
	Providing students with moral and educational values and principles that ensure the educational process and conveying this to pupils in schools and institutes.

Teaching and learning strategies .7	
	<u>Ano/Traditional methods:</u> • Lecture: The lecture method is one of the most common traditional methods of teaching, where the professor explains Course content for students. • Discussion: Discussions are organized between students on specific topics from the course. • Reports and research: Students are required to write reports or research papers on specific topics from the course. • Tests: Students' level is assessed through tests. • Active learning: This approach focuses on students' active

participation in the learning process through activities and projects.

Secondly / Modern methods:

Cooperative learning: Students are divided into small groups to work together to accomplish a specific task.

Seminars and cultural events: Seminars and cultural events are organized to deepen students' understanding of the course.

Thirdly / Skills Development Strategies:

Reading learning strategies:

Intensive reading: aims to understand the general meaning of the text, and requires fast reading with attention to the main ideas. .1

In-depth reading: aims to analyze and understand the text accurately, and requires slow reading with a focus on details. .2

Accelerated reading: aims to increase reading speed while maintaining comprehension levels, and requires the use of specialized techniques. .3

Strategies for learning to write:

Planning: Writing a draft of the topic before starting the final writing, and identifying the main and sub-ideas. .4

Editing: Reviewing the written text, correcting linguistic and spelling errors, and modifying the style and expression. .5

Editing: Writing the final text in a well-organized and clear manner, taking into account the rules of geography. .6

Strategies for learning to speak:

Practice: Talk to other people in the same geography as possible, .7

and share ideas and opinions.

Listening: Listening to audio materials related to geography, such .8
as: Radio programs and films.

Listening learning strategies:

Goal setting: Determine the purpose of listening before you begin, .9
such as: receiving information, understanding ideas, or enjoying
music.

Focus: Pay attention to what is being said and avoid distractions. .10

Note-taking: Writing down important points or main ideas while .11
listening.

Vocabulary learning strategies:

Mind maps: Linking the new word to other related words, and .12
creating a mind map that represents the relationships between the words.

Context: Learn words in their natural context by reading texts or .13
listening to audio materials.

Assessment methods .8

– Formative assessment (daily exams, class discussions, homework and
follow-up, classroom assessment).
Diagnostic assessment (Semester and final exams for issuing pass/fail
rulings).

Faculty .9

Faculty members

Faculty preparation		Special requirements/skills (if any)	Specialization		academic rank
lecturer	angel		private	general	
	angel			Geography	Prof. Dr. Hussein Karim Hamad
	angel			Geography	Prof. Dr. Latif Hashim Kazar
	angel			Geography	Prof. Dr. Nasser Wali Farih
	angel			Geography	Prof. Dr. Hussein Adhab Khalif
	angel			Geography	Prof. Dr. Malek Nasser Abboud
	angel			Geography	Prof. Sabah Wahab Abdullah
	angel			Geography	Prof. Dr. Shaker Musair Lafteh
	angel			Geography	Prof. Dr. Jamil Rashid Tahoum
	angel			Geography	Prof. Dr. Israa Kadhimi Jassim
	angel			Geography	Dr. Abbas Fadhil Obeid
	angel			Geography	Dr. Istabraq Kadhimi

					Shabout
	angel			Geography	Dr. Lama Abdel-Munaf Rahim
	angel			Geography	Dr. Wissam Abdul Hassan Ajil
	angel			Geography	Dr. Nadia Hatem Ta'ma
	angel			Geography	Dr. Muhammad Abbas Majeed
	angel			Geography	Dr. Amal Hadi Kadhim
lecturer				the language English	Prof. Dr. Fares Kazem Ta'ima

Professional Development
Orienting new faculty members
Following a meeting with members of the examination committee, the Head of the Geography Department directed the new professors to follow the instructions of the Ministry of Higher Education and Scientific Research, as follows: Paying attention to the external appearance and formal attire of the –1 university professor. Paying attention to the ethical aspect with the teaching staff and students. –2 Cooperation on the administrative side and providing assistance to –3 examination committees and other examination committees. Focus on scientific publishing in local, Arab, and international journals. –4

Encouraging them to participate in academic activities, including –5
conferences, seminars and workshops.

Professional development of faculty members

Some of the most important areas for faculty development in our department include:

Teaching methods:

- Identifying and applying the latest teaching methods in the educational process. ○
- Using modern educational technologies such as e-learning and blended learning. ○
- Designing interactive educational materials that meet students' needs. ○

Evaluation:

- Using diverse assessment tools to measure student learning. ○
- Providing constructive feedback to students to improve their performance. ○

Classroom management:

- Creating a positive and effective learning environment. ○
- Effectively managing student behavior. ○

Scientific research skills:

Writing research papers:

- Learn how to write sound scientific research papers. ○
- Publishing research papers in peer-reviewed scientific journals. ○

Participation in scientific conferences:

- Presenting scientific research findings at scientific conferences. ○
- Communicating with other researchers in their field of specialization. ○

Community service skills:

Participation in community activities:

- Participating in community service activities. ○
- Cooperation with civil society organizations. ○

Spreading scientific awareness:

- Spreading scientific awareness among members of society. ○
- Participation in science awareness programs. ○

Faculty Development Programs Many educational institutions offer faculty development programs. These programs include:

workshops:
Workshops in the fields of teaching, scientific research and community service.
seminars:
Scientific seminars presented by experts in various fields.
Training programs:
Specialized training programs in various fields.
Scholarships:
Scholarships to support faculty members in their graduate studies.

Admission standard .10
College admission is based on the central admission system adopted by the Ministry of Education and Scientific Research, according to the university and institute admission form, balancing the student's desire and overall grade.
Admission to the Geography Department depends on the student's desire, overall average, and grade in Geography in the final exam for the sixth preparatory grade in its various branches.

Key sources of information about the program .11
1- Department library resources: paper and electronic books and textbooks.
2- Workshops
3- Seminars
4- Conferences
5- Websites

Academic Program Development Plan for the Geography Department

the goal:

The development of the academic program for the Geography Department aims to achieve the following::

- Developing students' skills in geography in all its fields.
- Enhancing student understanding Geography and its fields of study.
- Preparing students for the job market And to equip them with the skills necessary to work in different fields.
- Keeping up with developments in the field of geography:
 - Using the latest teaching methods
 - Educational technologies

the components:

1–Curriculum review:

- Review and update the current curriculum to meet the needs of students and the labor market..
- Adding new materials that focus on practical skills such as creative writing.
- Using modern educational technologies such as e–learning and blended learningc) By utilizing the equipment available in the monitors and computers section.

2–Developing faculty members' skills:

- Organizing workshops and seminars to develop faculty members' skills in the fields of teaching and scientific research..
- Sending faculty members to participate in scientific conferences.
- Supporting faculty members in publishing their research papers in peer–reviewed scientific journals.

3–Promoting scientific research:

- Encouraging students to conduct scientific research in the field of geography.
- Providing financial and logistical support to research students.

Organizing scientific conferences for student researchers. •

4.–Community service:

Organizing cultural events that serve the community. •

Cooperation with civil society organizations. •

Spreading linguistic awareness among members of society. •

5–Program evaluation:

The program is evaluated periodically to measure its effectiveness and achievement of its objectives.. •

Conducting surveys for students and faculty members. •

Holding meetings with employers to identify labor market needs. •

Program Skills Plan															
Learning outcomes required from the program												Essential or optional	Course Name	Course code	Year / Level
Values				Skills				Knowledge							
Q4	Part 3	Part 2	Part 1	B4	B3	B2	B1	A4	A3	A2	A1				
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Iraq's climate	UWA26-EDH – GEO-CLIMIQ601	PhD geography/ the chapter the first
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Thematic maps	UWA26-EDH – GEO-MAPM602	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Applied Geomorphology	UWA26-EDH – GEO-APGEOM603	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Geopolitical problems	UWA26-EDH – GEO-PROBGOP606	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Industrial problems	UWA26-EDH – GEO-PROBIN605	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Population problems	UWA26-EDH – GEO-PROBPOP614	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	english language	UWA26-EDH – GEO-ENGSH617	

✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Electronic research and plagiarism detection methodology	UWA26-EDH – GEO-RESCH612	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Agricultural problems	UWA26-EDH – GEO-PROBAG613	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	Human development problems	UWA26-EDH – GEO-PROBDE615	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	City services	UWA26-EDH – GEO-CITYSVR616	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	essential	English language	UWA26-EDH – GEO-ENGSH617	

Course Description Form Graduate Studies

1. Course Name	
Water resources	
2. Course Code	
Master's degree/ Preparatory stage	
3. Semester / Year	
PhD / Preparatory	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms	
Actual Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 hours per year, 2 hours per week	
7. Course administrator's name (mention all, if more than one name)	
Name: Asst. Prof. Dr. Abbas Fadel Obaid Email: abbasalwan@uowasit.edu.iq	
8. Course Objectives	
Course Objectives	Student Definition 1- Introducing the student to the geological material, landforms, layers and geological formations And determining the geological times through studying the fossils of each era and time 2- Enabling students to determine the eras, times and types of layers in Iraq by following the geological oases and knowing their interpretation.
9. Teaching and Learning Strategies	
Strategy	- Group discussions and digital applications - Creating an atmosphere competition among students and treating individual differences using modern educational methods - Research groups - Overlapping discussion circles Including teaching methods using deep learning technology and using programs Encouraging students to self-learning and its applications
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Geology - (Earth Science)	Theoretical + practical	Powerpoint presentation + daily preparation
2	2		Structural Geology - Earth Movements - Their Causes and Theories	Theoretical + practical	Powerpoint presentation + daily preparation
3	2		Geological Column of Earth Structure (Eternal Hidden Life - Eternal Apparent Life)	Theoretical + practical	Powerpoint presentation + daily preparation
4	2		ancient life	Theoretical + practical	Powerpoint presentation + daily preparation
5	2		Mesozoic Era - Triassic	Theoretical + practical	Daily preparation, discussion and daily exam
6	2		Cenozoic Era	Theoretical	Classroom performance and exams
7	2		Geology of ancient Iraq	Theoretical + practical	PowerPoint Presentation Daily Preparation and Discussion
8	2		Formative-kinetic framework of sedimentation in Iraq	Theoretical + practical	Daily preparation + discussion
9	2		Formative-kinetic framework of sedimentation in Iraq	Theoretical + practical	Daily preparation and daily exam
10	2		Stratigraphical structure of	Theoret	Powerpoint

			Iraq	ical + practica l	presentation, discussion and assignments
11	2		Stratographical structure of Iraq	Theoret ical + practica l	Discussion, weekly assignments and exams
12	2		Stratographical structure of Iraq	Theoret ical practica l	Monthly exam
13	2		Hydrogeology of Iraq	Theoret ical + practica l	Powerpoint presentation daily discussion and preparation
14	2		Hydrogeology of Iraq	Theoret ical + practica l	Powerpoint presentation discussion
15	2		Economic geology of Iraq (oil as a model)	Theoret ical + practica l	Powerpoint presentation and discussion

Infrastructure

Required books or primary source	Regional Geology of Iraq, Tibor Todi, Saad Zayer Jassim
References	Geology in Iraq, Dr. Ahmed Jadoua Redha Al-Hiti, 2015 Fundamentals of Petroleum Geology, Dr. Richard Seeley. Translated by Fadhel Al-Saadouni Fundamentals of Geology, Dr. Michel Kamel Atallah

Course Description Form

1.	Course name:	Research and extraction methodology	
2.	Course code:		
3.	Chapter/Year:	The second course / PhD in Geography 2025– 2026	
4.	Date this description was prepared:	1/2/ 2025	
5.	Available attendance forms:	My presence	
6.	Number of study hours (total) / Number of units (total):	30/hour, 60/units	
7.	Name of the course administrator (if more than one name is mentioned with the personal email)		
	1– Prof. Dr. Jamil Rashid Tahoum Al-Ghazali		Email: jrasheed@uowasit.edu.iq
8.	Course objectives		
	Keeping pace with developments taking place globally, especially in the field of education. Preparing appropriate specialized scientific cadres. Developing students' capabilities and skills in thinking and innovation. Direct and indirect participation in the field of education and teaching between students and their teacher Use of laboratory devices, equipment and tools in the field of experimentation.	Subject objectives	

9. Teaching and learning strategies					
1. Follow the method of class discussions 2. Prepare external questions from those sources. 3. Follow up on external sources 4. Urging students to follow educational series presented in video form on official scientific links 5. Make daily quick tests with thought-provoking questions. 6. Create a short report session in which two or more students participate to study a topic related to the course vocabulary.					
10. Course structure					
Evaluation method	Learning method	Unit or topic name	Required learning outcomes	Watch es	The week
Classroom performance and exams	The lecture	Research stage	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	February 1
Classroom performance and exams	The lecture	Geographical search steps	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	February 2
Classroom performance and exams	The lecture	Definition of scientific research	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	February 3
Classroom performance and exams	The lecture	Choose the research topic	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	February 4
Classroom performance and exams	The lecture	Define the research problem	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	March 1
Classroom performance and exams	The lecture	Defining the scientific method	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	March 2

Classroom performance and exams	The lecture	Data collection	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	March 3
Classroom performance and exams	The lecture	The library and its role in scientific research	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	March 4
Classroom performance and exams	The lecture	Melville Dewey's classification of knowledge	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	April 1
Classroom performance and exams	The lecture	Geographic atlases	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	April 2
Classroom performance and exams	The lecture	Scientific journals	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	April 3
Classroom performance and exams	The lecture	Manuscripts	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	April 4
Classroom performance and exams	The lecture	Field studies in geographical research	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	May 1
Classroom performance and exams	The lecture	Electronic abstraction	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	May 2
Classroom performance and exams	The lecture	Plagiarism and plagiarism	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	May 3

11. Course Evaluation:	
The grade is distributed out of 100 as follows: 1- Annual striving degree from (30) degree and is divided by (10) Degree of attendance, participation and activities 20) Monthly exam grade. 2- Final written exam score (70) degree.	
12. Learning and teaching resources:	
General teaching methods	Required textbooks (methodology if any)
	Main references (if any)
Iraqi academic journals	Recommended supporting books and references (scientific journals, reports, etc.).
Google Scholar	Electronic references, website

Course Name: .1	
Population Geography	
Course Code: -2	
Semester/Year: -3	
The second phase / 2024-2025	
Date this description was prepared: -4	
1-9-2024	
Available attendance forms: -5	
In-Person	
Number of study hours (total) / number of units (total): -6	
120/ hour, 3/units	
Name of the course administrator (if more than one name is mentioned with the personal email) .2	
1- Prof. Dr.Sabah Wahab Abdullah	Email: swahab@uowasit.edu.iq
Course Objectives .3	
Objectives of the unit	The geography of the population aims to study spatial differences through the distribution of population, their growth and characteristics in terms of structure and composition, their links to the natural and human environment, and changes in the population.

TEACHING AND LEARNING STRATEGIES .4

	- Lectures and group discussions. - Researching and making plans for population lectures - The use of references and sources for the geography of the modern population. - Using the method of detailed explanation of the lecture topics. - Use of maps. - Using the view of the lecture using the data show projector - Using some statistical equations that show the correlation between phenomena - Focus on studying population change according to a time series to find out the causes, effects and future outlook.
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10. Course Structure .5

Week	Hours	Learning outcomes required for the program*	Module or Topic Name	Learning method	Valuation Method
October 1	4	To familiarize students with the concept of population geography and its most important branches and the development of	Population Geography	Course	Class Performance, Daily and Monthly Exams

		applied studies			
October 2	4	Know how to collect population data	Data collection	Lecture and Discussion	Class Performance, Daily and Monthly Exams
October 3	4	Familiarizing students with the demographic characteristics of the population	Demographic characteristics	Lecture and Discussion	Class Performance and Exams
Oct 4	4	Briefing students on the importance of studying population	Population Pyramid and Population Distribution Patterns	Lecture and Discussion	Class Performance and Exams
November 1	4	Students' knowledge of population rates	Birth Measurement Rate Mortality Measurement Rate Fertility Measurement Rate	Lecture and Discussion	Class Performance and Exams
November 2	4	Clarify the importance of studying migration, its effects and types	Migration, its types, causes and effects	Lecture and Discussion	Class Performance and Exams Assign students

					with a report on migration in Iraq
November 3	4	Briefing students on the importance of studying family planning	Family planning and its impact on population size	Lecture and Discussion	Class Performance and Exams
November 4	4	Focus on the importance of population fertility and its impact on population size	Measuring the population fertility rate The most important equations for measuring solar radiation	Developing a standard method: The practical application of what we learned	Class Performance and Exams
December 1	4		First Month First Semester Examination	theoretical, theoretical, abstract, notional, perspective, paper, academic	examine
December 2	4	Population policy	Population policy	Lecture and Discussion	Class Performance and Exams

December 3	4	Knowledge of population theories	Population Theories	Lecture and Discussion	Class Performance and Exams
Dec 4	4	Getting to Know Malthus' Theory	Malthusian theory	Lecture and Discussion	Class Performance and Exams
Jan1	4	Identify the most important population areas and their geographical distribution	Geographical distribution of population regions	Lecture and Discussion	Class Performance and Exams
January 2	4	Importance of the Census	General population census 1985	Lecture and Discussion	Class Performance and Exams
January 3	4	Knowledge of the qualitative composition of the population	QUALITATIVE AND QUANTITATIVE COMPOSITION	Lecture and Discussion	Class Performance and Exams
January 4	4	Knowledge of the age structure of the population	Age structure	Lecture and Discussion	Class Performance and Exams
February 1	4	Essay, Objective and Practical	Semester 1 Month 2 Examination	theoretical	UNTRANSLATED_CONTENT_S

		Questions		descriptiv e	TART امتحان ورقي UNTRA NSLATED_C ONTENT_E ND
Feb2			Spring break.		
March 1	4	Recognize the perception of religious beliefs		Lecture and Discussion	Class Performance and Exams
March 2	4	Knowledge of population displacement and forced displacement	Displacement and forced deportation.	Lecture and Discussion	Class Performance and Exams
March 3	4	Students' knowledge of the demographic cycle	Demographic Cycle	Lecture and Discussion	Class Performance and Exams
March 4	4	Knowing the nutritional balance	Recent trends in nutritional balance	Lecture and Discussion	Class Performance and Exams
Apr1	4	Getting to know tourism	Population and Tourism	Lecture and	Class Performance and

				Discussion	Exams
April 2	4	Clarify the relationship of the population and the incidence of diseases	Population and health	Lecture and Discussion	Class Performance and Exams
Apr3	4		Semester 2 Month 1 Exam	theoretical, theoretic, abstract, notional, perspective, paper, academic	Paper-based exam
Apr4	4	Identify and measure population density	Population density	Lecture and Discussion	Class Performance and Exams
May 1	4	Knowing the impact of climate on the population	Climate and population	Lecture and Discussion	Class Performance and Exams
May 2	4	Knowledge of historical factors and their impact on the population	Historical Factors and Population	Lecture and Discussion	Class Performance and Exams
May 3	4	Knowledge of social factors	Social factors and population	Lecture and	Class Performan

		and their impact on the population		Discussion	ce and Exams
Mace.	4	Knowledge of population distribution in the Arab world	Population distribution in the Arab world	Lecture and Discussion	Class Performance and Exams
May 1	4		Semester 2 Month 2 Examination	theoretical, theoretic, abstract, notional, perspective, paper, academic	examine
May 2	4		End of year		

Course Evaluation .11

Distribute the score out of 100 according to the following agreement:

1-The degree of annual pursuit of (50) degrees and divided into (20) degrees of attendance, participation and activities and (30) degrees of monthly examinations.

2-The final written exam score is (50) marks.

Learning and Teaching Resources: .12

Required textbooks (methodology if any)	
References (if applicable):	Dr.Taha Hamoudi Al-Hadithi, -1 Population Geography Prof. Dr. Abdul Ali Al-Khafaf , -2 Population Geography Fathi Mohamed Abu Ayanah, -3 Geography of the Population

Course description form

Course Name: ١	
Climate of Iraq	
Course Code: ٢	
Semester/Year: ٣	
Doctoral stage for the academic year 2025–2026	
Date this description was prepared: ٤	
٢٠٢٥ / ٩ / ١	
Available attendance forms: ٥	
in person	
Number of study hours (total) / number of units (total): ٦	
hour, 2/units/٣.	
Name of the course administrator (if more than one name is mentioned with the personal email) ٧	
nasirwali@uowasit.edu.iq Email:	Dr.. Nasser Wali Frayeh Al-Rikabi A
Course objectives ٨	
The course aims to study the climate of Iraq and analyze the factors that cause it well as to study its effects and the resulting climate risks and ways to adapt to them, as well as to highlight the role of those elements in sustainable development. It also aims to highlight the importance of studying the climate of Iraq and address the most important factors that problem it and the development of Iraq's climate in the past and the changes that accompanied it. Until the present time, in addition to highlighting the role of the astronomical and geographical location in the characteristics of its climatic elements, studying the nature of those elements and their seasonal and annual variation, and studying the phenomena of Iraq's climate and the manifestations of severe weather, it also aims to study the climatic risks in the climate of Iraq and the impact of climate changes in changing some of its elements and phenomena and the impact of those elements on health. Man's comfort and leisure in Iraq	Objectives of the study sub
Teaching and learning strategies ٩	

Interactive lectures and group discussions. · The method of preparing the lecture and its objective for each paragraph of the course · Lecture objective · Research and studies that addressed each topic present · Identify research and studies that can be derived from the lecture · Reports and drawings for climate lectures · Using modern climate references and sources to enrich the lecture. · Using the method of detailed explanation of the lecture topics. · Use of maps. · Using the lecture presentation method using a data show device · Using the practical and applied aspect in measuring some climate elements and phenomena · Focus on studying climate change, its causes, effects, and methods of adaptation ·					
Course structure ·\·					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	week

Class performance Evaluation of stomach preparation by students Presenting the lecture and asking questions to determine the abilities 'students In analyzing and building correlations between the climate in the past and the evidence for that	Lecture and brainstorming	Lecture objective • The lecture aims to identify the climatic changes that occurred in Iraq's climate in the past and their connection to global climate changes • Learn about the relationship between climate change in the past and geological times • The relationship of climate to civilization in Iraq • The relationship of climate to the formation of the alluvial plain and the development of river courses • The development of settlement in Mesopotamia • Evidence of climate changes in the past • Studies and research that discussed the climate of Iraq in the past	The vocabulary of the subject and the most important sources relied upon in preparing lectures The evolution of Iraq's climate in the past	September 2
Class performance and exams	Lecture and discussion	The lecture aims to identify the most important factors affecting the climate of Iraq Represented by geographical and astronomical location, whichever is more influential Does the astronomical and geographical location have an impact on the nature of climatic elements? How did geographical and astronomical location affect seasonal variation? Does the nature of the surface area, the shapes of the surface and their locations have an impact on its climate? Does the location of these units affect the variation in its climatic characteristics? How did the geographical location of land and water affect the nature of its climate?	Determining and influencing factors on the climate of Iraq	September 3

Evaluating the preparation of the lecture and evaluating its sources Evaluate the method of preparation	Lecture and brainstorming Standard method Practical application pleasant	Determine the general characteristics of Iraq's climate Determine the reasons that made these features a s climate'characteristic of Iraq Identify the most prominent of these features and clarify their types, the meaning of each, and their annual, monthly, and quarterly variation Determine ways to measure these attributes - Oscillation - Continental - Drought - Extremism	General features of Iraq's climate		Septembe4
Class performance, evaluation of lecture preparation, and evaluation of its sources Evaluate the method of preparation	Lecture and brainstorming	The aim of the lecture is to determine the following objectives: What are the factors affecting solar radiation in Iraq? Is it for fixed factors? Is it for moving factors? What is the role of fixed factors in varying angles of incidence of solar radiation in Iraq? Its effect on temporal distribution Its effect on spatial distribution Study of temperature in Iraq and the factors affecting it Its temporal and spatial variation Its effects on the climate of Iraq	Characteristics of climatic elements in the climate of Iraq First: Characteristics of solar radiation and temperature		October the first

Class performance, evaluation of lecture preparation, and evaluation of its sources Evaluation method	Lecture and discussion	Lecture objective in Identifying the factors affecting in the pressure systems on Iraq Fixed in Features of the pressure in systems controlling Iraq Characteristics of the systems in controlling Iraq The effects of the systems on in the climate of Iraq	Pressure systems affecting Iraq's climate and wind characteristics		October The first 2
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Class performance and exams Assigning students to calculate evaporation for stations in Iraq	Standard method Practical application	The lecture aims to achieve the following objectives: Manifestations of condensation in the climate of Iraq Factors affecting each of them Its contrast Focus it The importance of studying it Its types Ways of being formed What are the most important factors controlling the manifestations of condensation and precipitation? Fixed factors Astronomical and geographical location The effect of water bodies Height above sea level Moving factors of pressure systems and their seasonal movement and their impact on the manifestations of condensation in Iraq Manifestations of precipitation in the climate of Iraq Rainfall Factors affecting rainfall the site Landforms Dynamic factors Spatial and temporal variation in rainfall totals Fluctuation in rain Fluctuation in the amount of rainfall Fluctuation in the number of rainy days Fluctuations at the beginning and end of rainy days Fluctuation in rain intensity Change and trend of daily, seasonal and monthly rainfall in Iraq	Characteristics of condensation manifestations in the climate of Iraq	October The first 3
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Class performance, class performance, presentation and evaluation of lecture preparation He presented its sources and the most important studies in this aspect	Lecture and discussion	The importance of studying the manifestations of severe weather in the climate of Iraq. Identifying the most important manifestations of severe weather in Iraq Identify the influencing and problematic factors for these manifestations Variation in the characteristics of these manifestations The effects left by these manifestations Change and trend in the frequencies of these manifestations	Manifestations of severe weather in the climate of Iraq		October The first 4
Class performance, presentation and evaluation of lecture preparation He presented its sources and the most important studies in this aspect	Lecture and discussion	The lecture aims to define the following objectives The concept of climate change in the climate of Iraq Change in climate elements in Iraq Identifying the sectors most affected in Al-Arath The effects of climate change in Iraq How can we combat and mitigate climate change?	Climate change and its impact on the climate of Iraq		October the second

	theoretical	The lecture aims to Identifying the most important climatic risks in s climate'Iraq First, the risks resulting from temperatures Second: Climatic hazards resulting from heavy rains and sudden floods Third: The risks resulting from severe weather in Iraq Fourth: Change, frequency, and trend of s 'climate risks in Iraq climate	Climatic risks in the climate of Iraq		October 2
Class performance, presentation and evaluation of lecture preparation He presented its sources and the most important studies in this aspect	Lecture and discussion	The lecture aims to determine • the following objectives What are the most important • climatic elements affecting human health in Iraq? Is there a relationship between • the extremes of some climatic elements and the increase in disease incidence? What is the relationship • between environmental risks and human health in Iraq? What is the relationship • between climate hazards and human health in Iraq?	Climate and human health in Iraq		November 3

Class performance, presentation and evaluation of lecture preparation He presented its sources and the most important studies in this aspect	Lecture and discussion	The purpose of the lecture The lecture aims to answer the following questions: - What human activities are most affected by the climatic characteristics prevailing in Iraq? - What are the climatic elements that most influence various human activities? - What is the nature of the effect that these characteristics have? Identify the most important climatic elements affecting human activity Variation in climatic elements and their impact on variation in human activity in Iraq Change in climatic elements and their impact on human activity in Iraq The most important activities affected by climate elements in Iraq Agriculture activity Industry activity tourism Transport and trade	Climatic characteristics in Iraq and their relationship to various human activities	November 4
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Class performance and exams	Lecture and discussion	The lecture aims to define in goals Determine the effect of in climatic elements on water characteristics The impact of climatic in elements on the water environment (plants and aquatic organisms in Iraq Changing water environment in in Iraq Water management in Iraq in and climate change Change in wet marsh areas in Change in the level of water in stored in front of dams in Iraq Direct effects of climate on in water resources in Iraq Water consumption and in water losses and their relationship to climate in Iraq	Climate and water resources in Iraq		the Canon first
Class performance and exams	Lecture and brainstorming	How does climate affect food security in Iraq? What are the most important sectors that are most affected and have an impact on food security? How can we address climate-related food security?	Climate and food security in Iraq		The Canon first 2
Class performance and exams	Lecture and application	The impact of climate, climatic extremes, and drought characteristics on population movements in Iraq	The impact of climate on population movements in Iraq		The Canon first 3

Class performance and exams	Lecture and application	Change in the boundaries of climatic regions in Iraq ✓ Annual change ✓ Seasonal change ✓ Monthly change ✓ The effects of change in climate boundaries in Iraq ✓	Iraq climate classification		The Canon first 4
		End of course exam	Monthly examination and research discussion		the Canon second
Course evaluation: .١١					
The grade distribution out of 70 is as follows: The annual pursuit grade is (30) grades, divided into (10) grades for attendance, participation, and activities, and (20) –١ grades for monthly exams. The final written exam score is (70) points. –٢					
Learning and teaching resources: .١٢					
			Required textbooks (methodology, if		

	Main references (if
Climate of Iraq \ s past and present climate'Iraq .۲ Tourism geography of Iraq ۳ s practical climate'Iraq .۴ Climate Change Droughts and Increasing : Desertification in the Middle East, with Special Reference to Iraq Drought and the fall of Assyria: quite another story Indicators of climate change in agricultural systems demographic and :”No harvest was reaped“ climatic factors in the decline of the Neo-Assyrian Empire Effects of changing climate on weather and human activities mpacts of Global Climate Change on Temperature and Precipitation in Basra City, Iraq Energy and Exergy Analysis of the Solar Radiation Incident over Iraq Energy and Exergy Analysis of the Solar Radiation Incident over Iraq Study Global Solar Radiation Based on Sunshine Hours in Iraq y 55 (4A) Iraq Agriculture sector note Paolo Lucani Senior Economist, Investment Centre Division, FAO Climatology of Iraqi dust Impact of Cold events during 1980–2015 Waves and Heat Waves on the Energy Production Sector Synoptic Analysis of Dust Storms in the Middle East Sand and dust storm events in Iraq Changes in the degree of continental climate of Iraq Climatic fluctuation and its impact on the variation in regional boundaries Climate in Iraq Environmental risks in Iraq	

Bioclimate d. Ali Hassan Musa Climatic regions D. Ali Hussein Al Shalash Ali Hassan Musa's tourist climate Letters and theses	Recommended supporting books and references (scientific journals, reports,).
Journal of the Geographical Society Analytical climate Working climate Iraqi academic journals (humanitarian journals)	Electronic references, wel

Course Description Form

	Course name: .١
Hydrology	
	Course code: .٢
	Chapter/Year: .٣
Second course / PhD 2025- 2026	
	Date this description was prepared: .٤
1/2/ 2026	
	Available attendance forms: .٥
My presence	
	Number of study hours (total) / Number of units (total): .٦
30 hours	
Name of the course administrator (if more than one name is mentioned with the personal email) .٧	
1- Prof. Dr.Hussein Karim Hamad Al-Saedi Email: husainwadi@uowasit.edu.iq	
Course objectives .٨	
Recognizing the importance of studying hydrology Raising students' awareness of water problems Explain the characteristics of water resources The most prominent characteristics of rivers in the Arab world, their components and problems Introducing students to local, regional and international studies in hydrology.	Subject objectives
Teaching and learning strategies .٩	

Follow the method of class discussions .^١ Prepare external questions from those sources. .^٢ 3. Follow up on external sources 4. Urging students to follow educational series presented in video form on official scientific links Make daily quick tests with thought-provoking questions. .^٥ Create a short report session in which two or more students .^٦ participate to study a topic related to the course vocabulary.					
Course structure .١٠					
Evaluation method	Learning method	Unit or topic name	Required learning outcomes	Watch es	The week
Classroom performance and exams	The lecture	Hydrology and the general water cycle	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	February ¹
Classroom performance and exams	The lecture	River basins, their feeding and drainage	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	February ²
Classroom performance and exams	The lecture	Flow and water network	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	February ³
Classroom performance and exams	The lecture	The Arab world has collapsed	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	February ⁴
Classroom performance and exams	The lecture	The rivers of the Arab Levant	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	March ¹

Classroom performance and exams	The lecture	Rivers of the Maghreb	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	March ²
Classroom performance and exams	The lecture	Marshes of Iraq, a detailed study	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	March ³
Classroom performance and exams	The lecture	Morphometry of drainage basins	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	March ⁴
Classroom performance and exams	The lecture	Methods of calculating latent evapotranspiration	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	April ¹
Classroom performance and exams	The lecture	The emergence and evolution of ocean waters	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	April 2
Classroom performance and exams	The lecture	The basis of dividing seas and oceans and their geographical distribution	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	April ³
Classroom performance and exams	The lecture	Sea level fluctuations over geological time	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	April ⁴
Classroom performance and exams	The lecture	Ocean basin topography	Knowledge and understanding - the ability to analyze and distinguish - skills and	2	May ¹

			development of capabilities		
Classroom performance and exams	The lecture	Ocean currents and their geographical distribution over water bodies	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	May ²
Classroom performance and exams	Paper based exam	End of term exam	Knowledge and understanding - the ability to analyze and distinguish - skills and development of capabilities	2	May ³
Course Evaluation: ١١					
The grade is distributed out of 100 as follows: 1- Annual striving degree from (30) degree and is divided by (10) Degree of attendance, participation and activities 20) Monthly exam grade. 2- Final written exam score (70) degree.					
Learning and teaching resources: ١٢					
Hydrology Dr. Sahar Amin Katout \ environment and Water Dr. Saadia Akoul Al-alihi and Dr. Abdul Abbas Fadiah Al-Ghariri \ Hydrology / Salam Hatem / Hydrology / Jihad -Shaer / Water Resources / Safaa Abdul Amir Al-Asadi			Required textbooks (methodology if any)		
			Main references (if any)		
Iraqi academic journals			Recommended supporting books and references (scientific journals, reports, etc.).		
Journal of Hydrology –Elsevier Google Scholar			Electronic references, website		

1.	Course Name:	Geopolitical problems
2.	Course Code:	
3.	Semester/year	Course / PhD / 2025- 2026
4.	Date this description was prepared	1/9/2025
5.	Available attendance forms	In-Person
6.	Number of study hours (total) / number of units (total):	30 hours
7.	Name of course administrator (if more than one name is mentioned)	
1-	Prof.Asraa Kazem Jassim Al-Husseini	Email: israakj@uowasit.edu.iq
8.	Course Objectives	1- Making students able to understand the meaning of geopolitical problems and what are the dimensions, consequences and international interventions within the geopolitical concept. 2- Identifying the terms force (modifying forces – balance of forces). 2- Identify international conflicts and problems between global powers with examples.(The impact of colonialism on the emergence of the population problem 3- A statement of the relationship of the geography of the place to military geography and geopolitical impact. 4- Addressing the types of security and its geopolitical repercussions 5- Knowing the most important problems of development and encouraging them to develop countries (poverty, unemployment, corruption and underdevelopment). 6- Borders, their types and geopolitical problems . 7- Identifying the causes and causes of the problem of environmental pollution and epidemics

all kinds and their impact on the state and society.					
8- Studying the concept of the Middle East, the Middle East and terrorism (Daesh terrorist armament).					
9- Identifying the water challenges in the Middle East (water trade).					
10-Addressing the most important mathematical equations in which geopolitics is concerned.w examples .					
11- Studying international problems in the Arab world and the position of regional and international countries, including " the Syrian crisis as a model"					
9. Teaching and learning strategies					
1- Education Strategy Cooperative Concept Planning.					
2- Teaching strategy Brainstorming.					
3- Education Strategy Feedback Series.					
4- - Creating an atmosphere of competition between students and addressing individual differences using modern educational means					
5- - Research groups – Overlapping panel discussions.					
6- Encouraging students to self-learning and its applications.					
10. Course Structure					
Week	Credits	Intend ed Learning Outcomes	Module / Course Name or	Learning Method	Method of Evaluation
October 1	2	Referred to in the axis and each according to the content	Political geography The Concept of International Problems Presenting the most important terms that we will address in this curriculum	Theoretical + Dialogue (Discussion)	- PowerPoint presentations, dialogue, debates and political science perspectives

					– Daily and Monthly Exams
Oct ²	2	referred to in the previous axis and each according to the content	Power Terminology (Adjusting Power Balance of Power)	Theoretical + Dialogue (Discussion)	– Powerpoint presentations, dialogue, debates and political science perspectives – Daily and monthly exams
Oct ³	2	T	The impact of colonialism on the emergence of the population problem	Theoretical + Dialogue (Discussion)	– Powerpoint presentations, dialogue, debates and political science perspectives – Daily and monthly exams
Oct ⁴	2	T	The relationship of geography of the place to military geography and its geopolitical impact.	Theoretical + Dialogue (Discussion)	– Powerpoint presentations, dialogue, debates and political science perspectives – Daily and monthly exams
Nov 1	2	T	Types of security or its geopolitical repercussions	Theoretical + Dialogue (Discussion)	– Powerpoint presentations, dialogue, debates and political science perspectives – Daily and monthly exams
November ²	2	T	They are the problems of development and their impact on developing countries..(poverty, unemployment, corruption and underdevelopment).		– Powerpoint presentations, dialogue, debates and political science perspectives – Daily and monthly exams
November ³	2	T	Borders, their types and geopolitical problems	Theoretical + Dialogue (Discussion)	– Powerpoint presentations, dialogue, debates and political science perspectives – Daily and monthly exams
November ⁴	2	T	Causes and causes of the problem of environmental pollution and epidemics of all kinds and their impact on the state and society.	Theoretical + Dialogue (Discussion)	–Powerpoint presentations, dialogue, discussions and political scientific perspectives – Daily and monthly exams

-December 1	2	T	Water challenges in the Middle East (water trade).	Theoretical + Dialogue (Discussion)	- Powerpoint presentations, dialogue, debates and political science perspectives - Daily and monthly exams
December 2	2	T	Terrorism and its repercussions on international peace and security	Theoretical + Dialogue (Discussion)	- PowerPoint presentations, dialogue, debates and political science perspectives - Daily and Monthly Exams
-December 3	2	T	Political Development Concept, Importance, Elements and Obstacles	Theoretical + Dialogue (Discussion)	- Powerpoint presentations, dialogue, debates and political science perspectives - Daily and monthly exams
-December 4	2	T	The most important mathematical equations in which geopolitics is concerned. with examples .	Theoretical + Dialogue (Discussion)	- Powerpoint presentations, dialogue, debates and political science perspectives - Daily and monthly exams
Jan 1	2	T	International problems in the Arab world and the position of regional and international countries, including the "Syrian crisis as a model"	Theoretical + Dialogue (Discussion)	- Powerpoint presentations, dialogue, debates and political science perspectives - Daily and Monthly Exams
Jan ²	2	T	Daily exam ÷ extracurricular activity	Theoretical + Dialogue (Discussion)	- PowerPoint presentations, dialogue, debates and political science perspectives - Daily and Monthly Exams

Jan ³	2	referred to in the previous articles and each according to the content	ESE	Paper-based exam	
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11. Course Evaluation

Distribute the score out of 100 according to the following agreement:

- 1- The degree of annual pursuit is (30) degrees and is divided into: – (10) degrees of attendance and daily class participations – (10) degrees of extra-curricular activities and scientific journals – (10) degrees of monthly exams.
- 2- The final written exam score is (70) marks.

12. learning and teaching resources;

Required textbooks (methodology and course). If any	None
References (if applicable)	1- Geopolitics – A Contemporary Perspective – I 5 Al-Deeb. 2- Contemporary Geopolitics – 2003 Mohammed Abdulghani Saudi 3-Geopolitics in the perspective of the twentieth century....2011, Azhar al-Samak .
Recommended supporting books and references (scientific journals, reports,).	Political geography 2002 Qasim Al-Duwaikat.

	2-The foundations of geopolitics – Arabization .Emad Hatem Talif Alexandrogin .2004
E-References , Websites	The most important modern sites... which dealt with the most important international and geopolitical problems

Course description form Study for the doctoral level

Course Name: .1	
City services	
Course Code: .2	
Semester/Year: .3	
doctoral stage / 2026– 2025	
Date this description was prepared: .4	
16/1/ 2026	
Available attendance forms: .5	
Attendance	
Number of study hours (total) / number of units (total): .6	
(30/4)	
Name of the course administrator (if more than one name is mentioned with the personal email) .7	
Name: Lama Abdel Manaf Rahim Email: lama@uowasit.edu.iq	
Course objectives .8	
The course aims to discuss the geographical standards and determinants of city services, review theories and practical experiences of city services, and evaluate the causes and manifestations of lack of services. Study of the economic, social, economic, urban and environmental dimensions of city services	Course objectives
Teaching and learning strategies .9	
Lectures and presentations Applied studies Brainstorming Scientific dialogue and discussion Feedback	

Course structure .10					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Preparing scientific reports the exams Discussions	Lectures Brainstorming Applied studies See the experiences Application of theories	Geography of services concepts and importance	Effective contribution to knowledge economies by creating new knowledge Discover new things and develop skills Ability to prepare studies and research projects to solve problems and serve society	2	the first
		City planner and his relationship to urban planning		2	the second
		Planning urban facilities and services		2	the third
		City planning theories and their relationship to services		2	the fourth
		Types of cadastral and linear services		2	Fifth
		Foundations and standards for service planning		2	VI
		Factors affecting the distribution of city services		2	Seventh
		The impact of wars on services		2	VIII
		City services and their relationship to the age structure of the population		2	Ninth
		Services for people with special needs in cities		2	The tenth
		Evaluating the quality of services in cities		2	eleventh
		Service problems in cities		2	twelveth
		Methods of developing and developing services		2	Thirteenth
		Smart city services		2	fourteenth

		The role of services in humanizing cities		2	Fifteenth
Course evaluation: .11					
Final evaluation: 100 points: divided as follows according to the instructions of the College of Education for Humanities/Department of Geography 30% pursuit grade + 70% final exam grade 30% is divided between assessment (exams), applied research, and scientific activities					
Learning and teaching resources: .12					
nothing			Required textbooks (methodology, if any)		
There is no specific source to give the researcher the opportunity to view various sources			Main references (if any)		
Specialized geographical libraries at the university and its corresponding universities			Recommended supporting books and references (scientific journals, reports,).		
All scientific research websites and electronic libraries			Electronic references, website		

Course description form

1. Course Name:
City services
2. Course Code:
3. Semester/Year:
2023–2024
4. Date this description was prepared:
4/16/2024

5. Available attendance forms:

6. Number of study hours (total) / number of units (total):

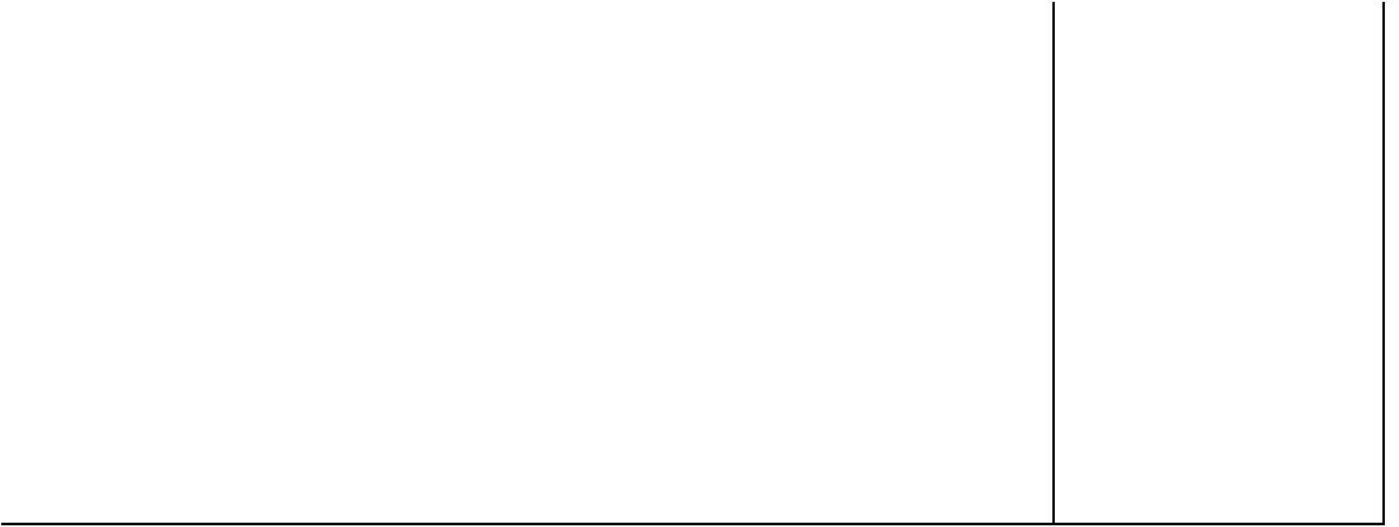
Lama abid almanaf raheem

7. Name of the course administrator (if more than one name is mentioned with the personal email)

8. Course objectives

Objectives of the study subject

9. Teaching and learning strategies



Graduate Course Description Form

1.	Course Name:	Geomorphology Applied	
2.	Course Sign :	UWA26-EDH-GEO-APGEOM603	
3.	Semester/year	First Courses / PhD 2025- 2026	
4.	Date this description was prepared	1/9/2025	
5.	Available attendance forms	In-Person	
6.	Number of study hours (total) / number of units (total):	30 hours / 2 units	
7.	Name of course administrator (if more than one name is mentioned)		
	1- Prof. Dr. Hussein Athab Khalif Al-Mousawi	Email: hathab@uowasit.edu.iq	
8.	Course Objectives		
		Identify the importance of studying geomorphology Clarify the characteristics of the Earth's surface shapes Identify the most important erosive and sedimentary forms of the earth's surface Familiarize students with local, regional and global studies in geomorphology	
9.	Teaching and learning strategies		
		1. Follow the style of class discussions 2. Configure external questions from those sources 3. Pursuing and Using External Sources 4. Urging students to follow educational series that are presented in video form on official scientific links 5. Conducting daily quick exams with intellectual questions. 6. Conducting a workshop of brief reports involving two or more students to study a topic related to the course vocabulary	

10. Course Structure					
Week	Hours	Intended Learning Outcomes	Module / Course Name or	Learning method	Valuation Method
Sep 2	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	How to detect groundwater	Course	Class Performance and Exams
Sep 3	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	The Role of Satellite Visualization in the Detection of Oil Reservoirs	Course	Class Performance and Exams
Sep 4	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Effect of seasonal valleys on water erosion in the western plateau	Course	Class Performance and Exams
October 1	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Sub-surface structures affecting the change of river courses in Wasit Governorate	Course	Class Performance and Exams
October 2	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Earthquakes and their impact on slow and rapid landslides and movements	Course	Class Performance and Exams
October 3	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Deriving geomorphological shapes from topographic maps	Course	Class Performance and Exams
Oct 4	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Minerals resulting from dissolved geomorphological processes	Course	Class Performance and Exams
November 1	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Geomorphological stages of rivers and their terrestrial forms	Course	Class Performance and Exams

November 2	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Geomorphological units of denudative origin	Course	Class Performance and Exams
November 3	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Slope Ground Uses	Course	Class Performance and Exams
November 4	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Geomorphological units of wind origin	Course	Class Performance and Exams
December 1	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Geomorphological hazards	Course	Class Performance and Exams
December 2	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Units of Soluble Origin	Course	Class Performance and Exams
December 3	2	Knowledge and understanding - the ability to analyze and distinguish - skills and develop abilities	Units of maritime origin	Course	Class Performance and Exams
December 4	2	End of second semester exam		Paper-based exam	

11. Course Evaluation

Distribute the score out of 100 according to the following agreement:

1-The degree of annual pursuit of (30) degrees and divided into (10) degrees of attendance, participation and activities and (20) degrees of monthly examinations.

2-The final written examination score (70).

12. Learning and Teaching Resources

Required textbooks (methodology if any)

References (if applicable):

Recommended supporting books and

1- Dr. Mahdi Al-Sahaf, Dr. Adnan Al-Naqash,

references (scientific journals, reports,).	Geomorphology, Baghdad University Press, Baghdad, 1989. 2– Dr. Noura Abdel Tawab Al–Sayed, Principles of Geomorphology, 1st Edition, Anglo–Egyptian Library, Cairo, 2008. 3– Dr. Khalaf Hassan Ali Al–Dulaimi, Applied Geomorphology/Applied Geomorphology, 1st Edition, Safa House for Printing, Publishing and Distribution, 2012. 4– Dr. Hassan Ramadan Salama , Origins of Geomorphology, 4th Edition, Dar Al–Masirah 2013. 5– Dr. Sarhan Naim Al–Khafaji, Geomorphology of the Forms of the Earth's Surface, 1st Edition, Al–Mathleeh Publishing and Distribution House, Amman, 2018. 6– Dr. Ahmed Hassan Sayed Abou El–Enein, The Origins of Geomorphology ,Beirut, 1989.
E-References , Websites	➤ (iasj) Iraqi Academic Journals Website. ➤ Google Scholar ➤ Research Gate ➤ Various AI Sites