

Academic Program Description Form University name: University Tikrit College/Institute: College Education for girls

Scientific Department: Department Geography

Name of academic or professional program: Bachelors

Final Certificate Name: Bachelor's in Geography

Academic system: annual

Description preparation date: 18/9/2024

Date of filling the file: 18/9/2024

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Name of the Head of Department: A.Mr. Salam Saud Hussein Name of Scientific Assistant: A.Dr. Ashraf Jamal Mahmoud

the date:

the date :

File checked by:

Quality Assurance and University Performance Division

Name of the Director of the Quality Assurance and University Performance Division: M sahahd Khaled Hamid

the date

the signature



1. Program Vision

The vision of the Geography Department is centered around: Preparing scientifically and

educationally qualified female teachers in order to raise righteous generations that can bear the

burdens of building our beloved country, in addition to building the graduate's personality in an

integrated manner to provide her with the knowledge and skills to confront and solve difficulties in the



field of scientific research that contributes to the progress of society. The Geography Department contributes to the process of preparing and developing human resources and preparing teaching staff to support middle and secondary schools to serve the scientific and educational process and achieve the goals of higher education and the goals of colleges of education in light of the central philosophy of the state and serving civil society and holding many conferences, seminars and workshops, whether in person or (online) electronically remotely. And conducting a group of discussion groups, workshops, courses and seminars.

2. Program message

The Department of Geography is one of the departments of the College of Education for Girls. It is one of the new departments in the college; it was established in the academic year (2016-2017). The initial study period is four years. This department awards a bachelor's degree to its graduates. To enable her to work in the field of teaching in secondary education, in the subject of geography.

3. Program objectives

The objectives of the Geography Department are divided into three types: cognitive and scientific objectives at the theoretical and applied levels, value objectives at the national and human levels, and skill objectives at all levels of building the capabilities and capacities of the graduates and members of the Geography Department. In addition to the objectives mentioned above, there are other objectives such as: -

 Preparing and developing female students and expanding their sensory, intellectual and scientific awareness of all geographical subjects, whether natural or human, in a way that qualifies them for teaching and scientific research in the institutions of the Ministry of Education and other ministries that can benefit from the geographical experiences of students graduating from the department.
 Enabling female students to rely in their practical lives on applying scientific methods in dealing with life problems and situations by relying on field studies in analysis and study, especially in the fields and research studies that serve and benefit society.

Also, preparing and developing the scientific sense of some distinguished female students in order to keep pace with their scientific studies, including submitting them for postgraduate studies through urging and encouraging them to be the basic foundation, providing academic institutions with this expertise and the need of the geography departments in the Iraqi governorates as instructors who serve in their various fields and according to their scientific specializations.
 Building and preparing scientifically, professionally and culturally the students and graduates of the Geography Department and enabling them to master and know the facts and theoretical concepts related to the science of geography.

5- Qualifying students and graduates of the Geography Department, for the purpose of their understanding of the basic principles that qualify them to teach in educational institutions and contribute to scientific research in all specializations of geographical knowledge.

6. Developing beneficial behaviors and values among students in a manner that is consistent with Arab and Islamic values and the principles of other heavenly religions, in order to develop them to the highest levels of moral, intellectual, and human maturity..

4. Program accreditation

both .

5. Other external influences

Tikrit University-Ministry of Higher Education and Scientific Research

6. Program Structure					
comments	percentage	Study unit	Number of courses	Program	
				Structure	
	100	112	56	Institutional	
				Requirements	
	100	112	56	College	
				Requirements	
	100	112	56	Department	
				Requirements	
				Summer training	
	100	112	56	Other	

*Notes may include whether the course is basic or optional.

7. Description and structure of the program As listed in Table (7) below:

Table (7) shows the development and review of curricula.

Т	Section	Stage	Number of materials	Names of materials for the stage	Course material code	Number of units	Number of hours per week For the academic year 2023- 2024
1	Geography	The first	13	Meteorology and Climatology	106GWC	4	2
2				Maps and remote sensing	101GC	4	3
3				Geography of Africa and Australia	108GGAA	4	2
4				Earth's surface morphology	109GGe	4	2
5				Dry regions	111GDR	4	2
6				Biogeography	112GBI	4	2
7				Foundations of education	102G FE	4	2
8				Educational Psychology	107G EP	4	2
9				Arabic	105G AL	4	2
10				History of the ancient Arab homeland	110GAHI	4	2

11				Human rights and democracy	103GHRD	2	2
12				English language	113GEL	2	2
13				Computer principles	104GCS	3	2
						47	27
1	Geography	Second	14	applied climatology	211GAC	4	2
2				Earth's surface morphology	215G Geo	4	2
3				Eurasia	216GGeE	4	2
4				Population Geography	217G PG	4	2
5				Secondary Education and Educational Administration	218GSE	4	2
6				developmental psychology	222G GrP	4	2
7				Geographical techniques	221G GT	4	2
8				History of the Arab Islamic State	219GHIAS	4	2
9				English language	223G EL	2	2
10				Development and planning	226GG DP	4	2
11				Oil and energy	227GG OE	4	2
12				Thematic cartography	228G TMS	4	2
13				rural geography	229GRG	4	2
14				Baath Party Crimes	304 GVD	4	2
		8				46	28
1	Geography	Third	14	Geography of the Americas	333GNRG	4	2
2				Industry Geography	39GMGR	4	2
3				Agricultural Geography	332GGA	4	2
4				Urban Geography	337G MHIAH	4	2
5				Natural resources	336G TM	4	2
6				Statistics and Modeling	331GGI	4	2
7				Curricula and teaching methods	338G PGEG	4	2
8				Educational guidance and mental health	43GTG	4	2
9				History of Iraq and the modern Arab world	40GSG	4	2
10				Detailed climate	330GGA	4	2
11				Tourism geography	334GGS	4	2
12				Geographical research methods	334GGS	4	2
13				Soil geography	330GGA	4	2
14				English language	331GGI	2	2
						54	28
1	Geography	Fourth	14	Geography of Iraq	454GSO	4	2
2				geography of politics	452G ISG	4	2
3				Environmental Geography	452G ISG	4	2
4				Geography of the Arab world	453GRP	4	2
5				geographer thought	449G ME	4	2
6				Geography of transport and trade	445G PG	4	2
7				Graduation research	449G ME	4	2
8				Measurement and evaluation	457GGS	4	2
9				Teaching applications	336G TM	4	2
10				Geographic Information Systems	444GG I	4	2
11				English language	457GGS	2	2
12				Social Geography	453GRP	4	2
13				Geography of seas and oceans	445G PG	4	2
14				Geography of services	456GSG	4	2
						54	28

omes	of the program
ent 1	Required program outcomes, teaching, learning and assessment methods
	-Cognitive objectives The student will be able to gain a scientific and objective understanding of the philosophy of studying physical geography. And humanity In climate, geomorphology, population, agriculture, transportation, etc. from Various geographical branches. A2- That the student is able to embody the images of her geographical studies in the fields of her knowledge.
	Diverse geography. A3 That the student is familiar with all the natural and human geographical specializations mentioned, and their most prominent descriptive and analytical data according to the objective study therein. A4- That the student is familiar with all geographical schools and pioneers of geographical thought, both ancient and modern.
	A5- The student should be familiar with all the geographical fields studied and what is related to them. A6- That the student learns modern technical skills in studying geography.
ent 2	B - Program specific skill objectives B1 - That the student is able to master the methods of teaching, measuring and evaluating the scientific material. B2 - That the student is able to choose the appropriate teaching method for each scientific subject, so that it is presented in an
	for3-That the student is able to solve problems related to students' understanding of the scientific material by using the theories of educational psychology. And modern teaching methods Which facilitates the study and teaching of geography
ent 3	 Required program outcomes, teaching, learning and assessment methods Cognitive objectives 1That the student is able to have a scientific and objective understanding of the philosophy of studying physical and human geography in climate, geomorphology, population, agriculture, transportation, etc. From various geographical branches. A2- That the student is able to embody the images of her geographical studies in the various fields of her geographical knowledge. A3- That the student is familiar with all the natural and human geographical specializations mentioned, and their most prominent descriptive and analytical data according to the objective study therein. A4- That the student is familiar with all geographical schools and pioneers of geographical thought, both ancient and modern. A5- The student should be familiar with all the geographical fields studied and what is related to them. A6- That the student learns modern technical skills in studying geography.
	 B1 - That the student is able to master the methods of teaching, measuring and evaluating the scientific material. B2 - That the student is able to choose the appropriate teaching method for each scientific subject, so that it is presented in an interesting way. B3 - That the student is able to solve problems related to students' understanding of the scientific material by using the theories of educational psychology. Modern teaching methods facilitate the study and teaching of geography.
	Teaching and learning methods M:-
	-Standard method / lecturing -Text method. -Descriptive, analytical and inductive method. - Problem solving method.
	Evaluation methods:-
	 -Formative assessment (daily exams, class discussion, homework and follow-up, class assessment). -Diagnostic assessment (semester and final exams to issue judgments of success and failure) C- Emotional and value goals. A1- Raising the student to know and understand geography, and highlighting its position among other sciences. A2- Identifying the role of geography and its current and future dimensions A3- Developing the creative abilities of the student in the field of scientific research and its development.
	Teaching and learning methods:- Do not rely on traditional teaching methods for emotional objectives, because they are value objectives that cannot be taught like cognitive objectives. Therefore, the following is relied upon:

	 The student should be a good role model. Forming a general category of good with a general category of good with a general category of good with a general category. 	odel for those around him. values. to achieve emotional goals.						
	Evaluation methods:-							
	Affective goals are not assessed through	n traditional tests, but rather by observ	ing the student's behavior, interviewing her, discussing					
	her, and following up on her relationshi	p.						
	In the educational environment, it provi	des a cumulative record of its represer	ntation of emotional and value-based goals					
nt 4	Evaluation methods -Oral and written tests, individual and g -Direct observation of the student's perf spirit of Team within the classroom and -Assigning students to prepare scientific	roup, theoretical and practical. formance in the areas of dialogue, intel l college and university environment. c research to test their ability to think,	llectual and scientific communication, and working in a draw conclusions and solve problems.					
nt 5	Learning outcomes: -							
	ductive (deductive) method							
	e repeated the training courses and semin to engage in fruitful dialogue, and solve -Classroom interaction and exchange of solutions.	e educational problems using scientific copinions between the student and the	e ability to communicate with society, the ability methods. teacher to raise learning difficulties and discuss their					
tegie								
es and method	s adopted in implementing the prog	ram in general						
5 une memora								
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the program i	in general.	lization	Acadomic Bank					
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The program in the pr	in general. Special private Costo construction	lization general	Academic Rank					
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ithe program ment /Skills fany - <td>in general. Special Special Private Cartography and Information Systems Population Geography Resource Geography Resource Geography Cartography and Information Systems Geomorphology Urban Geography Urban Geography Urban Geography Eaching methods</td> <td>lization general Human Geography Human Geography Physical Geography Human Geography Physical Geography Human Geography Human Geography Physical Geography Human Geography Human Geography Libraries Educational and</td> <td>Academic Rank A.M.D. Salam Saud Hussein Daoud Asst. Prof. Dr. Adel Taha Shalal Fandy Asst. Prof. Dr. Adel Taha Shalal Fandy Asst. Prof. Dr. Adel Taha Shalal Fandy Dr. Farah Abdul Qader Faleh Rahim Dr. Farah Abdul Qader Faleh Rahim Dr. Rawida Fouad Abdullah Dr. Fatima Ibrahim Tauma Hajij Dr. Ali Abdul Rahman Abdul Karim Yahya Ms. Hoda Ne'ama Hamad Ms. Amna Ali Ahmed Sharoi</td>	in general. Special Special Private Cartography and Information Systems Population Geography Resource Geography Resource Geography Cartography and Information Systems Geomorphology Urban Geography Urban Geography Urban Geography Eaching methods	lization general Human Geography Human Geography Physical Geography Human Geography Physical Geography Human Geography Human Geography Physical Geography Human Geography Human Geography Libraries Educational and	Academic Rank A.M.D. Salam Saud Hussein Daoud Asst. Prof. Dr. Adel Taha Shalal Fandy Asst. Prof. Dr. Adel Taha Shalal Fandy Asst. Prof. Dr. Adel Taha Shalal Fandy Dr. Farah Abdul Qader Faleh Rahim Dr. Farah Abdul Qader Faleh Rahim Dr. Rawida Fouad Abdullah Dr. Fatima Ibrahim Tauma Hajij Dr. Ali Abdul Rahman Abdul Karim Yahya Ms. Hoda Ne'ama Hamad Ms. Amna Ali Ahmed Sharoi					

	psychological sciences	
Islamic history	date	millimeter. Nadra Hailan Yacoub
Agricultural Geography	Human Geography	M.M. Hamid Sakhir Nazal Gigi
Desertification	Physical Geography	M.M. Mohamed Salam Youssef Mahmoud
Population Geography	Human Geography	Dr. Rawida Saad Jaber
Cartography	Physical Geography	M.M. Hoda Nasser Najm Abdullah
Population Geography	Human Geography	M.M. Zainab Safaa Bandar
Population Geography	Human Geography	M.M. Israa Mazen Hamid
	Islamic historyAgricultural GeographyDesertificationPopulation GeographyCartographyPopulation GeographyPopulation GeographyPopulation Geography	Islamic historydateAgricultural GeographyHuman GeographyDesertificationPhysical GeographyPopulation GeographyHuman GeographyCartographyPhysical GeographyPopulation GeographyHuman GeographyPopulation GeographyHuman GeographyPopulation GeographyHuman GeographyPopulation GeographyHuman GeographyPopulation GeographyHuman GeographyHuman GeographyHuman Geography

Professional development

Orientation of new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-time faculty at the institutional and departmental levels.

Professional development for faculty members

Briefly describes the plan and arrangements for academic and professional development of faculty members

such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criteria

(Setting regulations related to joining the college or institute, whether central admission or other mentioned)

13. The most important sources of information about the program

Remember briefly.

14. Program Development Plan

Prog	Program Skills Chart														
Requ	Required learning outcomes of the program														
Valu	ies			Skill	S			Kno	wledg	ge		Essential	Course	Course	Year/Level
										or	name	code			
										optional?					
A4	A3	A2	A1	B4	B3	B2	B1	A4	A3	A2	A1				

*Please tick the boxes corresponding to the individual learning outcomes of the program being assessed.

Course Description Form

1. Course name:

Geographic Information Systems

2. Course code

444GG I

3. Semester/Year

2025-2024

4. Date this description was prepared

9/18/2024

5. Available forms of attendance

In-person lectures

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

60 hours / 4 units

7. Name of the course supervisor (if more than one name is mentioned)

Name: Dr. Farah Abdul Qader Faleh Rahim Al-Najdi

Email: farah.falih.872@tu.edu.iq

8. Course objectives	
 Documenting the student's ability in geographic information systems and introducing the student to geographic systems and their uses in geography Introducing the student to some geographical systems and drawing up an integrated strategy to analyze them and increase the student's ability to apply geographical information systems Developing students' abilities in spatial analysis methods in geographic information systems. And qualifying specialists in the fields of geographic information systems, remote sensing and their applications through a scientific curriculum that combines theoretical and applied aspects according to the actual needs of the labor market. Training employees in private and academic governmental institutions working in related fields and enabling their capabilities through organizing and implementing training courses in the fields of geographic information systems, remote sensing and their applications. Contribute to enhancing the use of GIS and remote sensing technologies and their applications for various purposes in the Arabian Gulf region 	
D9. Teaching and learning strategies	
 In-person lectures. Using geographical techniques to ask students 	

questions. - Using brainstorming to develop skills among students.

- Discussion method for the details of the lecture topic inside the classroom.

- Weekly duties

10. Course St	ructure				
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Watches	The week
In-person tests	In-person lectures	Elements, components, functions and benefits of geographic information systems	Chapter One: The Concept and Development of Geographic Information Systems	2	October
In-person tests	In-person lectures	Data Fitting in Linear and Area Model	Chapter Two: Data Structure and Representation Methods in Geographic Information Systems	2	October
TestIn	Lectures Presence	Metadata	Triangle network	2	October
In-person tests	In-person lectures	Spatial data; Non-spatial data; Temporal data	Chapter Three: Types of data and information and their sources in geographic information systems	2	November
In-person tests	In-person lectures	Linear data sources; Area data sources; Triangle data sources	Spatial data sources in GIS	2	November
In-person tests	In-person lectures	Primary sources Secondary sources Maps of all kinds Aerial photos	Spatial data sources in GIS	2	November
In-person tests	In-person lectures	Satellite images global cosmic order	Spatial data sources in GIS	2	November
In-person tests	In-person lectures	Field and field studies and time data sources	Non-spatial data sources	2	December
In-person tests	In-person lectures	 Concept of spatial and descriptive data entry Evaluation criteria 	Chapter Four: Entering spatial and descriptive data into geographic information systems	2	December
In-person tests	In-person lectures	- Entering spatial data using a numbering	Methods of entering spatial data into the computer	2	December

		device			
		- Direct on-			
		numbering			
		method			December
In-person tests	In-person lectures	 geodatabase concept The purpose of the geodatabase 	Chapter Five: Geographic Database	2	December
In-person tests	In-person lectures	The need for a geographic database in geographic information systems	Geodatabase Design Requirements	2	December
In-person tests	In-person lectures	geodatabase stages	geodatabase design	2	December
In-person tests	In-person lectures	Descriptive tables-Data	Components of a geodatabase	2	January
In-person tests	In-person lectures	Hierarchical structure of geodatabase	Geodatabase structure	2	January
	Spring break fro	0m14/1/2024to25/1/202	4	1	Fahruary
In-person tests	In-person lectures	tabular structure	Geodatabase network structure	2	redruary
In-person tests	In-person lectures	Spatial analysis of linear data	Chapter Six: Spatial Analysis of Data in Geographic Information Systems	2	February
In-person tests	In-person lectures	Types of topological matching	Topological matching	2	February
In-person tests	In-person lectures	Digital Elevation Model and its Applications	Spatial analysis in the surveying system (cellular)	2	March
In-person tests	In-person lectures	applied	Digital Elevation Model Construction Methods	2	March
In-person tests	In-person lectures	regular network structure	Regular mesh structure and irregular triangle mesh	2	March
In-person tests	In-person lectures	Data extrapolation from digital elevation model	Irregular triangle network structure	2	March
In-person tests	In-person lectures	Practical - Applied	Chapter Seven: Practical Applications in Geographic Information Systems	2	March
In-person tests	In-person lectures		Re-read and review	2	April
In-person tests	In-person lectures		Re-read and review	2	April
In-person tests	In-person lectures		Re-read and review	2	April
In-person	In-person		Re-read and	2	April

tests	lectures	review		
In-person tests	In-person lectures	Re-read and review	2	Metis
In-person tests	In-person lectures	Re-read and review	2	Mays
In-person tests	In-person lectures	Re-read and review	2	Mays
	25/May			

11. Course Evaluation

The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation,

daily, oral, monthly and written exams, reports, etc.

50 points for annual pursuit, 25 points for each semester, divided as follows:

20 marks for the written exam

Allocating 5 points for daily attendance in in-person lectures, daily exams and reports.

50 marks for the end-of-year exam, so that the final total score is (100).

12. Learning and teaching resources	
All the books prescribed for the subject,	Required textbooks (methodology if any)
especially the modern ones.	
1- I wrote Geographic Information Systems (Fundamentals and Applications) by Ali Abdul Abbas Al-Azzawi,2009 University of Mosul.	Main References (Sources)
I recommend relying on modern sources,	Recommended supporting books and references (scientific
including the book Geographic Information Systems	journals, reports)
As well as all the studies Applied And	
scientific research published in academic	
scientific journals And applied Which is	
related to the vocabulary of the material.	
All studies published on the Internet that are	Electronic references, websites
related to vocabulary Geographic information	
systems.	
https://kgug.org/2	

Course Description Form

1. Course name	
Statistics and Modeling	
2. Course code	
331 GGI	
3. Semester/Year	
2025-2024	
4. Date this description was prepared	
9/18/2024	
5. Available forms of attendance	
In-person lectures	
6. Number of study hours (total) / Number of units	(total)
60Hour / 4 units	
7. Name of the course supervisor (if more that	an one name is mentioned)
the name: Dr. Farah Abdul Qader Faleh Rahim A	Al-NajdiEmail: <u>farah.falih872@tu.edu.iq</u>
8. Course objectives	
By studying this course, the student will be able to design frequency tables in various fields of geography, and master the application of measures of central tendency. He will also be able to distinguish between geographical statistical methods, and be able to use them in geographical studies. To reach scientific conclusions that can be compared and tested.	Subject objectives
9. Teaching and learning strategies	
It is done teaching The decision on road throw	Strategy
Lectures Interspersed with Episodes discussion And	
offers Visible And exercises Scientific And the	
process.	

10. Course Structure							
Evaluatio n method	Learning method	Name of the unit or topic	Required learning outcomes	Watc hes	The week		
In-person tests	In-person lectures	The concept of geographical statistics, its nature, objectives and methods	The concept of geographical statistics, its nature, objectives and methods	2	September3		
In-person tests	In-person lectures	theoretical	Introduction to Quantitative Method in Geography	2	September 4		
In-person tests	In-person lectures	theoretical	The quantitative revolution in geography	2	October1		
In-person tests	In-person lectures	Theoretical - Applied	Using the quantitative method in geographical research	2	October2		
In-person tests	In-person lectures	theoretical	Factors of the development of the quantitative method in geography	2	October3		
In-person tests	In-person lectures	theoretical	Advantages of quantitative approach in geography	2	October4		
In-person tests	In-person lectures	Theoretical and applied	Statistical data	2	November1		
In-person tests	In-person lectures	theoretical	Statistical community	2	November2		
In-person tests	In-person lectures	theoretical	Types of geographic data	2	November3		
In-person tests	In-person lectures	theoretical	Types of geographic data	2	November4		
In-person tests	In-person lectures	Theoretical and applied	Quantitative data classification	2	December1		
In-person tests	In-person lectures	theoretical	Statistical samples	2	December 2		
In-person tests	In-person lectures	theoretical	Types of statistical samples	2	December3		
In-person tests	In-person lectures	theoretical	Types of statistical samples	2	December4		
In-person tests	In-person lectures	Theoretical and applied	Sample testing steps	2	January1		
	-	Spring break from1	/14/2025to 1/25/2025				
In-person tests	In-person lectures	applied	Statistical tables	2	January4		
In-person tests	In-person lectures	Theoretical and applied	Frequency tables	2	February 1		

T	T	Theoretical and	Massumas of control	2	Eabruary?
In-person	In-person	Theoretical and	weasures of central	2	reoruary2
tests	lectures	applied	tendency		
In-nerson	In-nerson	Theoretical and	Grouped and	2	February 3
tosts	locturos	annliad	ungrouped		
16818	lectures	appneu	arithmetic mean		
In-person	In-person	applied	The medium and the	2	February 4
tests	lectures	appned	mode		
In-person	In-person	Theoretical and	Disponsion massures	2	March 1
tests	lectures	applied	Dispersion measures		
In-person	In-person	Theoretical and	Range and mean	2	March 2
tests	lectures	applied	deviation		
In-person	In-person	Theoretical and	Variance and	2	March 3
tests	lectures	applied	standard deviation		
In-person	In-person	Theoretical and	Statistical	2	March 4
tests	lectures	applied	distributions		
In-person	In-person	Theoretical and	The closest reighbor	2	April1
tests	lectures	applied	The closest neighbor		_
In-person	In-person	applied	The closest neighbor	2	April 2
tests	lectures	appneu	The closest heighbor		
т	т	Theoretical and	- b ⁴	2	April3
In-person	In-person	applied	chi square		_
tests	lectures	11			
In-person	In-person	applied	chi square	2	April4
tests	lectures		-		1
In-person	In-person	applied	Time series	2	Mays 1
tests	lectures				5
Testsimm	Lecturesth			2	Mays 2
anence	eimmanenc	applied	Koman chains		
	e				
			Final exams		Mays3,4

11. Course Evaluation

50 points for annual pursuit, 25 points for each semester, divided as follows:

20 marks for the written exam

5 marks per day, distributed between daily exams or reports.

50 marks final exam

12. Learning and teaching resources	
Lectures in Geographic Statistics, Saeed Fadhel Ahmed, University of Diyala, College of Education for Humanities, 2020.	Required textbooks (methodology if any)
College of Education for Humanities, 2020.	

Quantitative Methods in Geography, Fathi Abdel Aziz Abu Rady, Dar Al- Ma'rifah University, Beirut Arab University, 2000.	Main References (Sources)
-ResearchStudentsPostgraduate studies onQuantitative and statistical methods. ResearchInstructorsaroundGeographic statistics and its applications.	Recommended supporting books and references (scientific journals, reports)
nothing	Electronic references, websites

Course description form

	1. Course name
	Transportation geography
	2. Course code
	GMHIAH 337
	3. Semester/year
	2024- 2025
4. TI	he date this description was prepared
	18/9/2024
	5. Available forms of attendance
	In-person lectures
6. Number of study	hours (total) / number of units (total)
	601 hour/4 units
7. Name of the course administrator (if more than one name is mentioned)
the name. Dr Farah Abdul Qadir F	Falih - Email: <u>Farah.falih872@tu.edu.iq</u>
	8. Course objectives
 A- Developing students' ability to understand the characteristics of subject problemsTransportIts causes and treatments within the real environment. B- Providing students with the knowledge and ideas to identify the most important sources for obtaining geographical dataTransportIncluding the data available at the MinistryTransport And transportationIn addition to books and references related to the subject. 	Objectives of the study subject

			to understand the basic	C- Enabling students to understand the basic				
			nsportAnd activating its	he subjectTra	rules of t			
			iopment on the ground.	ole in its deve	r r			
rategies	arning st	9. Teaching and le						
strategy	The		ning to develop skills.	ng brainstorn	- Usir			
			Inside the classroom	- Discussion				
				lecture				
tructure	Course s	10.						
the	hours	Required learning	Name of the unit or	Learning	Fvaluatio			
week	nours	outcomes	tonic	method	n method			
WEEK		outcomes	topic	method	minethou			
		Car	Introducing the		In-			
1	2	transportation	characteristics and	In-person	nerson			
1	2	and its	features of car	lectures	tests			
		characteristics	transportation		10313			
			Introducing the		In-			
2	2	Rail transport	characteristics of	In-person	nerson			
	2	and features	railway transport	lectures	person tests			
			in the world					
			Explaining the					
		Water transport	nature and	In-person lectures	In-			
3	2	(river and sea)	importance of		person			
			water transport		tests			
			(river and sea)					
		Air transportation	Statement of the		In-			
4	2	and its	characteristics and	In-person	person			
•	-	characteristics	features of air	lectures	tests			
			transport					
		Marine canals in	Knowledge of the					
		the world	most prominent					
_	-		maritime canals of	In-person	In-			
5	2		economic and	lectures	person			
			transport		tests			
			importance in the					
			world					
7	2	Suez Canal	Explaining the	In-person	In-			
			economic,	iectures	person			

tests		locational and			
		strategic			
		importance of the			
		Suez Canal in the			
		Arab Republic of			
		Egypt			
		Revealing the	Panama Canal		
		nature of the			
In		geostrategic,			
	In-person	transportation, and		2	0
person	lectures	economic		2	0
ເຮຣເຣ		importance of the			
		Panama Canal in			
		Central America			
		Knowing the types	Straits and their		
		of straits spread	types		
		around the world			
In-	In noroon	and their			
person	In-person	relationship to the		2	9
tests	lectures	economic			
		activities of			
		countries in the			
		world			
		Introducing	Natural harbors		
In		students to the			
-[]]	In-person	nature of natural		0	10
person	lectures	harbors and their		2	10
lesis		distinction from			
		ports			
		Identify the most	Halving natural		
In		prominent natural	harbors		
	In-person	harbors and their		2	11
person	lectures	transportation		2	11
lesis		importance in the			
		world			
-		Explaining the	Airways and their		
	In-person	importance of air	routes		40
person	lectures	routes and their		2	12
lesis		routes spread			

		throughout the			
		world			
		Canals in the	Transport and		
In-	In norson	relationship	agricultural		
person	locturos	between transport	activity	2	13
tests	leciules	activity and the			
		agricultural aspect			
		Knowing the role	Transport and		
In		of transportation	industrial activity		
norcon	In-person	as a means of		2	11
person	lectures	transportation in		Z	14
16515		the field of			
		industrial activity			
		Introducing	The main		
		students to the	shipping lines in		
		patterns and	the world		
In-	In noroon	importance of the			
person		main lines of		2	15
tests	lectures	blame and their			
		role in developing			
		the transportation			
		aspect			
		Identifying the	Navigation in the		
In		nature of	Pacific Ocean		
-111	In-person	navigation and its		0	10
person	lectures	transportation		Z	10
lesis		importance in the			
		Pacific Ocean			
		Identify the nature	Navigation in the		
In-	In norson	of navigation and	Indian Ocean		
person		its transportation		2	17
tests	lectures	importance in the			
		Indian Ocean			
		Explaining the	Navigation in the		
In		transport and	Atlantic Ocean		
nerson	In-person	economic		2	18
tosto	lectures	importance of		2	
10313		navigation in the			
		Atlantic Ocean			

In- person tests	In-person lectures	Explaining to students the importance of navigation in the Panama Canal from the economic and transportation aspects	Navigation of the Panama Canal	2	19
In- person tests	In-person lectures	The impact of navigation in the Suez Canal on commercial, industrial and agricultural activity there.	Navigation in the Suez Canal	2	20
In- person tests	In-person lectures	Identify the role of navigation on the Danube River and its relationship with economic and commercial activities with its neighboring countries	Navigation on the Danube River	2	21
In- person tests	In-person lectures	Introducing the importance of international trade	International Trade	2	22
In- person tests	In-person lectures	Knowing the role and contribution of international trade at the economic and industrial levels in the world	The importance of international trade	2	23
In- person tests	In-person lectures	Identify the nature of the existing relationship between international trade and its impact on	International trade and economic development	2	24

			economic			
			development			
			Identify the nature	Trade and		
			of the existing	industrial		
	In		relationship	development		
		In-person	between		2	25
	person	lectures	international trade		Z	25
	lesis		and its impact on			
			industrial			
			development			
			Introducing	Water and land		
			students to the	transportation in		
			patterns of water	the world		
			and land			
			transportation in			
			the world and their			
	In-		relationship to the			
	person	In-person	growth and		2	26
	tests	lectures	development of			
			the population.			
			their output, and			
			their economic			
			activity			
			(agricultural and			
			industrial)			
			Identify patterns of	Transportation		
	IN-	In-person	transportation	systems and	0	07
	person	lectures	systems in the	their types	2	21
	tests		world			
			Knowing the	Container		
			nature of	shipping		
			transportation by			
	In-		the			
	person	In-person	aforementioned		2	28
	tests	lectures	means of			
			delivering goods			
			and various			
			services			
$\left \right $	In-	In-person	Explaining the	Modes of	2	29
<u> </u>						L

person	lectures	types of means of	transport by		
tests		transportation for	commercial ships		
		commercial ships			
		and their			
		relationship to the			
		transportation			
		process in the			
		world			
		Identify the types	Transport ships		
In		of transport ships	(oil, gas, fishing,		
noroon	In-person	for different	warships)	2	20
tosts	lectures	activities of		2	
10515		countries in the			
		world			

	11. Course evaluation
50 marks for the annual endeavor, 25	5 marks for each semester, divided as follows:
	20 marks for the written exam
5 marks per d	day, distributed among daily exams or reports
	50 marks for end-of-year exam
	12. Learning and teaching resources
-Sabri Fares Al-Hiti, Saleh Falih Hassan, Geography of Cities, Dar Al-Kutub for Printing and Publishing, University of Mosul, 2000.	Required textbooks (methodology, if any)
- The methodological book (City Geography), written by Prof. Dr. Bashir Ibrahim Al-Taif and Dr. Salah Dawoud Salman, 2017.	Main references (sources)
1- Abdel Razzaq Abbas Hussein, Geography of Cities, 2006. 2- Haider Abdul Razzaq Kammouna, City Planning, 1st edition, House of General Cultural Affairs, Baghdad, 2007.	Recommended supporting books and references (scientific journals, reports)

3- Salah Dawoud, The Phenomenon of Transgression in Cities, Al-Ustad Magazine, Issue 1, Ibn Rushd College of Education, 2007.	
https://apps.who.int/iris/bitstream/handl	Electronic references, Internet sites
<u>e/10665/329429/9789240006119-ara.pdf</u>	

Course description form

	1. Course name
	Geopolitics
	2. Course code
	GMHIAH 337
	3. Semester/year
	2023- 2024
4. Tł	he date this description was prepared
	2/20/2024
	5. Available forms of attendance
	In-person lectures
6. Number of study	hours (total) / number of units (total)
	601 hour/4 units
7. Name of the course administrator (if more than one name is mentioned)
the name:a. M. Dr Adel	Taha ShalalEmail: <u>adel.taha@tu.edu.iq</u>
	8. Course objectives
A- Developing students' ability to understand the characteristics of subject problemsTransportIts causes and treatments within the real environment. B- Providing students with the knowledge and ideas to identify the most important sources of obtaining datathegeographyPoliticalIncluding the available datainBooks and references related to the subject.	Objectives of the study subject

C- Enabling students to understand the basic rules of the subjectGeopoliticsAnd activating its role in its development on the ground.					
9. Teaching	and learnin	g strategies			
- Using bra - Discussio	instorming to n method in	o develop skills. the dailv		The	strategy
lectureInsid	de the classro	pom.			
			10.	Course st	tructure
Evaluatio	Learning	Name of the unit or	Required learning	•	the
n method	method	topic	outcomes	nours	week
In- person tests	In-person lectures	The concept of geopolitics	Introducing the objectives of geopolitics	2	1
In- person tests	In-person lectures	The emergence and development of geopolitics	Introducing the most important developments targeted by geopolitics in the world	2	2
In- person tests	In-person lectures	Geopolitics and geopolitics	Explaining the comparisons between geopolitics and political geography	2	3
In- person tests	In-person lectures	The theoretical and practical importance of studying political geography	Analysis of the natural environment affecting the internal and external political life of countries	2	4
In- person tests	In-person lectures	Research methods in political geography	Introducing the types of curricula adopted by political	2	5

		geography			
		Introducing the	Power analysis		
		importance of the	approach or		
		aforementioned	analytical	In-nerson	In-
7	2	approach to the	approach	lectures	person
		state's strength			tests
		and military			
		superiority			
		Knowing the	The concept of		
		elements of	power in		In-
8	2	power in the	geopolitics	In-person	nerson
0	2	state (land,		lectures	tests
		population, and			10010
		authority)			
		Introducing the	Concept of power		
		importance of		In-nerson	In-
9	2	power and its		lectures	person
		contribution to			tests
		decision-making			
		Revealing	Patterns of power		
		patterns of power	in the international		
		in the	community		In-
10	2	international		In-person	person
	_	community, as		lectures	tests
		well as unilateral,			
		coalition, and			
		global power			
		Statement of the	Locational		
		analysis of the	characteristics		
		functional	from a geopolitical		In-
11	2	aspects of	perspective	In-person	nerson
	-	political regions		lectures	tests
		in applied			10010
		political			
		geography			
		Revealing the	Spatial features		In-
12	2	importance of		In-person	nereon
12	2	space in political		lectures	toete
		geography and			10010

			ita importanco to		
			the political value		
			of the state		
		Topographical	Di tile state		
		ropographical	Revealing the		
		character	1010 01		
			topographical		
			and		
In-			pnysiographic		
person	In-person		elements (terrain,	2	13
tests	lectures		climate, and		
			natural		
			resources) in		
			determining the		
			strength of the		
			state		
		Biogeographical	Introducing the		
		foundations	most important		
			biogeographical		
In			factors such as		
	In-person		climate, natural	0	
person	lectures		vegetation, and	2	14
tests			water resources		
			in determining		
			the strength of		
			the state		
		Natural plant	Introducing the		
		•	importance of		
In-	In-person		plant resources		. –
person	lectures		in the economic	2	15
tests			construction of		
			the state		
		aross domestic	Explaining the		
		product	importance of		
		p	aross domestic		
In-	In-person		product in the		
person	lectures		strength of the	2	16
tests	100(0100		state and its		
			economic		
			outcomes		
			outcomes		

In- person testsIn-person lecturesagricultural resourcesThe importance of agricultural resources in determining the power of the state according to geopolitical approaches217In- person testsIn-person lecturesArab food security Arab food securityRevealing the value of food security and the ability of the state or political region to achieve self- sufficiency in the population's food requirements218In- person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities218In- person testsAgricultural supply capacitiesIntroducing the importance of achieving Arab national food security and self- sufficiency for many of its agricultural and food requirements.219In- person testsAnalysis of the food problem (population growth and national income)Explaining the relationship between population growth and national income, what is known as general220						
In-person testsIn-person lecturesresourcesof agricultural resources in determining the power of the state according to geopolitical approaches217In- person testsArab food security Person lecturesRevealing the value of food security and the ability of the state or political region to achieve self- sufficiency in the population's food requirements18In- person testsArab food security Person lecturesRevealing the value of food security and the ability of the state or political region requirements218In- person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities218In- person testsAgricultural supply capacitiesIntroducing the importance of achieving Arab national food security and self- sufficiency for many of its agricultural and food requirements.219In- person testsAnalysis of the food problem (population growth and national income)Explaining the relationship population growth and national income, what is known as general220			The importance	agricultural		
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person testslecturespower of the state according to geopolitical approaches217In- person testsIn-person lecturesArab food securityRevealing the value of food security and the ability of the state or political region to achieve self- sufficiency in the population's food requirements18In- person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities in achieving Arab sufficiency for many of its agricultural and food requirements.2In- person testsAnalysis of the food problem (population growth and national income)219In- person testsAnalysis of the sufficiency for many of its agricultural and food requirements.220	17	2	determining the		In-person	norson
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In- person testsIn-person lecturesvalue of food security and the ability of the state or political region to achieve self- sufficiency in the population's food requirements218In- person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities in achieving Arab national food security and self- sufficiency for many of its agricultural and food requirements.18In- person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities in achieving Arab national food food requirements.19In- person testsAnalysis of the food problem (population growth and national income)Explaining the relationship opulation growth and national income, what is known as general220			Revealing the	Arab food security		
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In-person testsIn-person lecturesability of the state or political region to achieve self- sufficiency in the population's food requirements218In-person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities in achieving Arab national food security and self- sufficiency for many of its agricultural and food requirements.19In-person testsAnalysis of the food problem (population growth and national income)Explaining the relationship population2In-person testsAnalysis of the food problem (population growth and national income)Explaining the population growth and national income, what is known as general2			security and the			
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testslecturesto achieve self- sufficiency in the population's food requirementsIn- person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities in achieving Arab security and self- sufficiency for many of its agricultural and food requirements.19In- person testsIn-person lecturesAnalysis of the food problem and national income)Explaining the population growth and national income, what is known as general219	18	2	or political region		In-person	person
In- person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities in achieving Arab security and self- sufficiency for many of its agricultural and food requirements.1In- person testsIn-person lecturesAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities in achieving Arab security and self- sufficiency for many of its agricultural and food requirements.219In- person testsAnalysis of the food problem (population growth and national income)Explaining the population growth and national income, what is known as general220			to achieve self-		lectures	tests
In- person testsAgricultural supply capacitiesIntroducing the importance of available agricultural resource capacities in achieving Arab security and self- sufficiency for many of its agricultural and food requirements.19In- person testsAnalysis of the food problem (population growth and national income)Explaining the population growth and national income, what is known as general219			sufficiency in the			
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In- person testsIn-person lecturescapacities (available) (agricultural) resource) (capacities in achieving Arab) (security and self- sufficiency for many of its agricultural and food requirements.19In- person testsIn-person (population growth) and national food problem219In- person testsAnalysis of the food problem (population growth) and national income)Explaining the population growth and national income, what is known as general220			Introducing the	Agricultural supply		
In- person testsIn-person lecturesIn-person ecturesachieving Arab resource capacities in achieving Arab security and self- sufficiency for many of its agricultural and food requirements.219In- person testsIn-person lecturesAnalysis of the food problemSecurity and self- sufficiency for many of its agricultural and food requirements.219In- person testsAnalysis of the (population growth and national income)Explaining the population growth and national income, what is known as general220			importance of	capacities		
In- person testsIn-person lecturesIn-person lecturesadjricultural resource capacities in achieving Arab security and self- sufficiency for many of its agricultural and food requirements.219In- person testsIn-person lecturesAnalysis of the food problem income)Security and self- sufficiency for many of its agricultural and food requirements.219In- person testsAnalysis of the food problem income)Explaining the growth and national income, what is known as general220			available			
In- person testsIn-person lecturesIn-person lecturesIn-person achieving Arab achieving Arab security and self- sufficiency for many of its agricultural and food requirements.19In- person testsIn-person lecturesAnalysis of the food problem income)Explaining the population growth and national income, what is known as general219			agricultural			
In- person testsIn-person lecturesCapacities in achieving Arab national food security and self- sufficiency for many of its agricultural and food219In- person testsAnalysis of the food problem income)Security and self- sufficiency for many of its agricultural and food219In- person testsAnalysis of the food problem income)Explaining the population growth and national income, what is known as general220			resource			
In-person person testsIn-person lecturesachieving Arab national food security and self- sufficiency for many of its agricultural and food219In-person person testsAnalysis of the food problem income)security and self- sufficiency for many of its agricultural and food219In-person testsAnalysis of the food problem income)Explaining the population growth and national income, what is known as general220			capacities in			l a
person testslecturesnational food security and self- sufficiency for many of its agricultural and food requirements.219In- person testsAnalysis of the food problem (population growth and national income)Explaining the person growth and national income, what is known as general219	10	0	achieving Arab		In-person	IN-
testssecurity and self- sufficiency for many of its agricultural and foodIn- person testsAnalysis of the food problem (population growth and national income)Explaining the relationship growth and national income, what is known as general220	19	2	national food		lectures	person
In- person testsAnalysis of the food problem income)Explaining the population growth many of its agricultural and testsAnalysis of the food problem growth and national income, what is known as general220			security and self-			tests
In- person testsIn-person lecturesAnalysis of the food problem income)Explaining the relationship between growth and national income, what is known as general220			sufficiency for			
In- person testsAnalysis of the food problemExplaining the relationship between growth and national income, what is known as general220			many of its			
In- person testsAnalysis of the food problemExplaining the relationship between population growth and national income, what is known as general220			agricultural and			
In- person testsAnalysis of the food problemExplaining the relationship between population growth and national income, what is known as general220			food			
In- person testsAnalysis of the food problemExplaining the relationship between population growth and national income, what is known as general220			requirements.			
In- person testsIn-person lecturesfood problem (population growth and national income)relationship between growth and national income, what is known as general220			Explaining the	Analysis of the		
In- person testsIn-person lectures(population growth and national income)between population growth and national income, what is known as general220			relationship	food problem		
In- person testsIn-person lecturesand national income)population growth and national income, what is known as general220			between	(population growth		l.e.
person tests lectures income) growth and 2 20 national income, national income, national income, 1 1 general general 1 1	00	0	population	and national	In-person	IN-
national income, what is known as general	20	2	growth and	income)	lectures	person
what is known as general			national income,			tests
general			what is known as			
			general			

			economic density		
			or national		
			income density		
		Arab food regions	Introducing the		
			patterns of Arab		
In-	In noroon		food regions		
person	In-person		(high nutrition,	2	21
tests	lectures		moderate		
			nutrition, and		
			poor nutrition)		
		Current map of	The importance		
		Arab food security	of the current		
			map of Arab food		
In-			security as an		
person	In-person		essential element	2	22
tests	lectures		for measuring the		
			components of		
			balanced food in		
			the country		
		Future features of	Statement		
l a		Arab food security	settledandA		
IN-	In-person		summary of the	0	00
person	lectures		future of the food	2	23
tests			economy in Arab		
			countries		
		Strategic minerals	Identifying		
l.e.			energy minerals		
-IN-	In-person		at the center of	0	04
person	lectures		the political	Z	24
lesis			economic conflict		
			in the world		
		Globalisation	Knowledge of the		
			phenomenon of		
In-	In noroon		globalization in		
person	In-person		the development	2	25
tests	iectures		of contemporary		
			international		
			policies		
In-	In-person	Population growth	Introducing the	2	26

		concept of		lectures	person
		population from			tests
		the perspective			
		of political			
		geography as			
		producers and			
		consumers who			
		rule and are			
		ruled by the			
		people			
		Revealing the	Human		
		importance and	development in		
		role of human	the perspective of		
		development in	sustainable		
		developing the	development (the		In-
27	2	human element,	case of the Arab	In-person	person
		human capital,	world)	lectures	tests
		human	,		
		resources, and			
		social			
		development			
		Introducing the	The reality of		
		Human	human		
		Development	development in		
		Index as one of	the Arab world		
		the basic	(Human		
		components or	Development	In-person	In-
28	2	foundations of	Guide)	lectures	person
		the population,	,		tests
		such as			
		education,			
		health, and			
		income			
		Explaining the	Frontiers and		
		comparisons	borders		
00		between the		In-person	IN-
29	2	concepts of		lectures	person
		frontiers and			tests
		borders and their			

-						
				impact on the		
				state's policy and		
				its foreign		
				relations		
			Methods for	How to		
			determining	determine		
	In		territorial waters	territorial waters		
	-111	In-person		and methods of	2	20
	person	lectures		measuring them	Z	30
	lesis			between		
				countries in the		
				world		

	11. Course evaluation
50 marks for the annual endeavor, 25	5 marks for each semester, divided as follows:
	20 marks for the written exam
5 marks per o	day, distributed among daily exams or reports
	50 marks for end-of-year exam
	12. Learning and teaching resources
- Muhammad Azhar Saeed Al- Samman,thegeographyPolitics from a twenty-first century perspective , Al-Yazouri Library,Jordan Amman, 2000.	Required textbooks (methodology, if any)
-The Geopolitical Weight of the Arab Red Sea Countries, written by Muhammad Azhar Saeed Al- Samman,1989	Main references (sources)
1. Muhammad Safi al-Din Abu al-Ezz, The	Recommended supporting books and
Balance of Power in the Mediterranean Region, Beirut, 1979.	references (scientific journals, reports)
2. Nassit Jassim Al-Muttalabi, The Foreign	
Presence in the Mediterranean Region and	
its impact on Arab National Security, Baghdad 1987	
Dagnudu, 1907.	

https://apps.who.int/iris/bitstream/handl	Electronic references, Internet sites
e/10665/329429/9789240006119-ara.pdf	

model a description The decision

	1. Course name
	Detailed climate
	2. Course code
	GGA 330
	3. Semester/Year
	4. Date this description was prepared
	5. Available forms of attendance
	Lectures immanence
6. Number of study h	nours (total) / Number of units (total)
	60 hours / 4 units
7. Name of the course supervisor (if more than one name is mentioned)
	the name:M.M. Hoda Nasser Najm
	Email: <u>huda.n.najim@tu.edu.iq</u>
	8. Course objectives
 1- It aims to introduce students to detailed climatology, its various fields, research methods, and to know the differences between it and the local, average, and global climate. 2- This course aims to cover the most important basic pillars of this science and to 	Goals The material Academic

 identify the change in climate elements and climate phenomena on a small scale. 3- Introducing students to the effect of the Earth's surface features on climate at a very precise level in centimeters. 4- Introducing students to the differences between rural and urban climates. 5 - Introducing students to methods of adaptation and mitigation of the severity and extremism of climate and its various elements. 6- Developing students' ability to understand the characteristics of climate problems. 		and cale. f the very ters. nces ates. ds of and ious nts. tand ems.			
			9. Teaching	and lear	ning strategies
- Using brainstorming to develop skills. - Discussion method in the daily lecture inside the classroom.		kills. sture oom.		Strategy	
			• •••••		
				10. Co	urse Structure
road Evaluatio n	road Learning	name Unity or the topic	Outputs Learning Required	10. Co Watch es	The week
road Evaluatio n Testsimm anence	road Learning Lecturesimma nence	name Unity or the topic Chapter One / Introductio n to Climatolog y	Outputs Learning Required Understand the concept of detailed climate and its importance	10. Co Watch es 2	urse Structure The week 1September

TestsMy	Lecturesimma	Chapter	Learn about the		
presence	nence	Two / The	atmosphere, the		
And		Atmospher	features and	2	1October
		e	importance of		
			each layer.		
Testspres	Lecturesprese	Climate	Climate elements,		
enceYes	nceYes	elements,	means and		
		means and	methods of	2	2October
		methods of	measuring them,	2	2000001
		measuring			
		them,			
Online	E-lectures	Solar	Solar radiation,		
tests		radiation,	atmospheric		
		atmospheri	pressure,	2	3October
		c pressure,	temperature		
		temperature			
Online	E-lectures	rain, wind	rain, wind	2	40 stals ar
tests				2	4October
Online	E-lectures	weather	Identifying		
tests		phenomena	weather	2	1November
		r	phenomena		
	Tradinaria	F actoria			
Testspres	Lecturesprese	Factors	factors controlling		
ence i es	fice y es	detailed	the detailed	2	2November
		climate	climate		
		cimate	ennate		
Testspres	Lecturesprese	Regulatory	Learn about the		
enceYes	nceYes	conditions	regulatory		
		for	requirements for		
		establishing	establishing a	2	3November
		a surface	surface weather		
		weather	station		
		station			
Testspres	Lecturesprese	The	Learn the	~	
enceYes	nceYes	difference	difference	2	4November
		between	between synoptic,		

T	1				1
		the Sino-	climatic and		
		climatic,	automatic stations		
		climatic			
		and			
		automatic			
		stations			
Testspres	Lecturesprese	Degree of	Identify the		
enceYes	nceYes	confidence	degree of		
		in weather	confidence in	n	1Daaambar
		station	meteorological	2	IDecember
		measureme	station		
		nts	measurements		
Testspres	Lecturesprese	Classificati	Identify the		
enceYes	nceYes	on of	classification of		
		observation	observational		
		al errors	errors and the	2	
		and	inaccuracy of	2	2December
		inaccuracy	their data		
		of their			
		data			
Tastanras	Lasturageraga	Characteria	Idantify the		
resispres	Lecturesprese	characteris	abaractoristics and		
enceres	lice i es	footures of	factures of the		
		the	monitoring contor		
		ule	the monitoring		
		nontor the	method used and		
		monitoring	the methods of		
		method	research in the	2	3December
		followed	detailed climate		
		ionowed,	detaned enhate.		
		betailed			
		climate			
		research			
		methods			
		methous			
Testspres	Lecturesprese	Stepwise	Learn about		
enceYes	nceYes	and roving	stepwise and	2	4December
		monitoring	roving monitoring		
	1		1		1
•					
---------------	---	----------------------	--------------	----------------	-----------
		processes.			
Spring break			I	I	
from					
01/05/2024 to					
01/18/2024					
		Identify the	Surface	Lecturesprese	Testspres
		effects of the	effects on	nceYes	enceYes
		surface on the	the		
1 January	2	surrounding air	adjacent air		
		layer / soil types /	layer / soil		
		soil color	types / soil		
			color		
		Learn about sail	anil alimeta	Lasturgannaa	Testannes
1February	2	Learn about son	son chimate	Lecturesprese	Testspres
		climate		nceYes	ence Y es
) Echmiomi	2	Learn about soil	soil climate	Lecturesprese	Testspres
21 coluary	Δ	climate		nceYes	enceYes
		Loorn coil	1 Soil	Lacturageneasa	Tastanras
3February	2		1- 5011	Lecturesprese	resispres
		temperature	temperature	nce y es	ence y es
		Learn about the	Thermal	Lecturesprese	Testspres
		laws of thermal	conductivit	nceYes	enceYes
4 🗖 - 1	2	conductivity and	y laws and		
4February	2	the thermal	thermal		
		properties of soils.	properties		
			of soils		
		Identify the	Variation	Lasturasprasa	Tostapros
		variation of soil	variation	nooVog	oncoVog
1March	2	variation of som		lice i es	enceres
		temperature with	temperature		
		depth.	with depth		
		Identify daily and	Daily and	Lecturesprese	Testspres
		seasonal	seasonal	nceYes	enceYes
2March	2	variations in soil	variations		
		temperature.	of soil		
			temperature		
2 March	2	Learn about soil	soil	Lecturesprese	Testspres
Siviarch	2	temperature	temperature	P	
1		ren er avai e	per la care	1	1

enceYes	nceYes	adjustment	modification		
Testspres enceYes	Lecturesprese nceYes	2- Soil moisture	Identify soil moisture	2	4March
Testspres enceYes	Lecturesprese nceYes	Highland and rugged climate	Learn about the climate of highlands and rugged areas	2	1Mays
Testspres enceYes	Lecturesprese nceYes	Valley climate	Learn about the climate of valleys	2	2Mays
			Final exams		4.3Mays

	11. Course Evaluation
50 points for annual pursuit, 25	points for each semester, divided as follows:
	20 marks for the written exam
5 marks per day	v, distributed between daily exams or reports.
	50 marks final exam
	12. Learning and teaching resources
Microclimate / Ali Hassan Musa	Books The reporter Required(methodology
Local climate / Fadhel Baqer Al- Hasani	that I found it)
- The methodical book, The Microclimate / Ali Hassan Musa	the reviewer President(Sources)
	Books References chock that
All modern Arab and foreign climate	Recommended With it (Magazines Scientific,
sources in the neid of detailed climate	reports)
https://apps.who.int/iris/bitstream/han	the reviewer Electronic, Websites The
<u>dle/10665/329429/9789240006119-</u> <u>ara.pdf</u>	Internet

model a description The decision

1. Course name	
Water resources	
2. Course code	
GMHIAH 337	
3. Semester/Year	
2024- 2025	
4. Date this description was prepared	
9/18/2024	
5. Available forms of attendance	
Lectures immanence	
6. Number of study hours (total) / Number of units	(total)
60 hours / 4 units	
7 Name of the course supervisor (if more than one	nama is montioned)
7. Traine of the course supervisor (if more than one	name is mentioned)
the name :. Assistant Lecturer, Mohamed Salam	Youssef
Email:mohammed.yousif819@tu.edu.iq	
8. Course objectives	
1. It aims to introduce students to water resources science, its various fields and research methods.	Goals The material Academic
2. Introducing students to water resources and their types	
3. Introducing students to the geographical distribution of each water resource.	
4. Introducing students to the problems facing water resources, and how to maintain and preserve these resources.	
5. Introduce students to non-conventional water resources.	
6. Teaching students to measure the amount of rainfall on an area	
7. Teaching students to measure the amount of water flowing and volume in lands and valleys	

 8. Teach from 9. Teach 	ning students to me lakes ning students about	asure evaporatio groundwater	n		
9. Teaching	and learning strat	egies			
- Using brain - Discussion classroom.	nstorming to deve method in the dai	lop skills. ily lecture inside	e the Strategy		
10. Course S	Structure				
road Evaluation	road Learning	name Unity or the topic	Outputs Learning Required	Watch es	The week
Oral exam, research work	The lecture	The origin, importance and properties of water	Learn about the theories that deal with the origin of water, and study its properties.	2	the first
Oral exam, research work	Power point lecture	Hydrological cycle	Explaining the elements of the hydrological cycle, the factors affecting it, and its importance	2	the second
Oral exam, research work, and assigning students to apply mathemati cal equations.	Lecture and application of mathematical equations.	Shedding	Definition of precipitation, the factors affecting it, its effect on the continuity of the day and its discharge, and methods of measuring it on areas.	2	the third
Oral exam. Research.	PowerPoint lecture.	Seas and oceans	Learn about the Earth's oceans, the physical and chemical properties of sea and ocean water, and learn about the	2	Fourth

			movement of sea and ocean water.		
Oral exam. Research.	Presentation and discussion.	surface water movement	Introducing students to the types of surface water movement in seas and oceans.	2	Fifth
Oral exam. Research	Presentation and discussion.	Surface water	Surface runoff measurement methods	2	Sixth
Oral exam. Research	PowerPoint lecture.	groundwater	Introducing students to the origin and properties of groundwater.	2	Seventh

Spring break from 01/05/2025 to 01/18/2025

Oral exam.	Presentation and discussion	Rivers	Introducing students to the	2	The eighth
Kesearch	and discussion.		importance of		
			rivers how they are		
			formed and their		
			drainaga nattorns		
			uramage patterns.		
Oral exam.	a lecture	Lakes	Teaching students	2	Ninth
Research			about the		
			characteristics of		
			freshwater lakes		
			and their		
			geographical		
			distribution. In		
			addition to teaching		
			students about the		
			characteristics of		
			saltwater lakes and		
			their geographical		
			distribution.		
Oral exam.	Presentation	The marshes	Knowing the	2	tenth
Kesearch	and discussion.		marshes as a water		
			resource and		
			identifying their		
			importance and the		
			problems they face,		

			with a special study of the marshes of Iraq.		
Oral exam. Research	a lecture	Non- conventional water resources	Study the types of non-traditional water resources, their importance, and ways to obtain them pure.	2	eleventh
Oral exam. Research	a lecture	Water resources problems, water resources maintenance	Exposure to the problems facing water resources. And how to maintain water resources from the problems they face.	2	twelfth
Oral exam. Research	Presentation and discussion.	Water resources in the Arab world	Identifying water resources in the Arab world.	2	thirteenth
Oral exam. Research	PowerPoint lecture.	Water resources in Iraq	Identifying water resources in Iraq.	2	fourteenth

11. Course Evaluation

50 points for annual pursuit, 25 points for each semester, divided as follows:

20 marks for the written exam

5 marks per day, distributed between daily exams or reports.

50 marks final exam

12. Learning and teaching resources	
Geography of Water Resources - Hassan	Books The reporter Required(methodology that I
Abu Samour	found it)
Geography of Water Resources Safaa	the reviewer President(Sources)
Rasham Al-Asadi	
Geography of Water Resources - Hassan	
Abu Samour	

1.	Joudah Fathi Al-Turkmani,	Books References chock that Recommended
	Geography of Water Resources,	it(Magazinas Scientific reports)
	1st ed., Saudi House for Publishing	n(magazines selentine, reports)
	and Distribution, 2005.	
2.	Muhammad Khamis Al-Zouka,	
	Water Geography, Dar Al-	
	Ma'rifah University, Alexandria,	
	1998.	
3.	Salam Hatem Ahmed Al-Jabouri,	
	Natural Resources, 2nd ed., Dalir	
	Office, Bab Al-Muadham, 2016.	
https://	www.alarabimag.com/books/21091-	the reviewer Electronic, Websites The Interne

Course Description Form

1. Course name

Soil geography / The third stage

2. Course code

330GGA

3. Semester/Year

2024-2025

4. Date this description was prepared

9/18/2024

5. Available forms of attendance

In-person lectures

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

60Hour / 4 units

7. Name of the course supervisor (if more than one name is mentioned)

The name. Assistant Lecturer. Mohammed Salam Yousif

emailmohammed.yousif819@tu.edu.iq

8. Course objectives

A- Developing students' ability to understand the characteristics of soil, its types and places of distribution within the world and continents.	Subject objectives
B- Providing students with knowledge and ideas to identify the most important sources of obtaining soil geographical data and information, including those related to the data available at the Ministry of Agriculture, as well as books, references and research regarding the material.	
C- Enabling students to understand the basic rules of soil material and activate its role in its development on the ground.	
9. Teaching and learning strategies	

Using brainstorming to develop skills.Discussion method in daily lecture Inside the

Strategy

classroom.

10. Course Structure						
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Watch es	The week	
In-person tests	In-person lectures	Chapter One / Geography of soil, its importance	Understand the concept of soil geography and its importance	2	September5	
In-person tests	In-person lectures	Goals Soil geographyan d methods of searching in it	Get to know Goals Soil geography, and know ledge Ways to search it	2	September18	
In-person tests	In-person lectures	Chapter Two /Identify organic ingredients	Identifying organic ingredients	2	October26	
In-person tests	In-person lectures	soil water	Identify soil water	2	October1	
In-person tests	In-person lectures	Mother rock material	Learn about the effect of the mother rock material	2	October9	
In-person tests	In-person lectures	the chapter The second is the impact of climate factors.	Identify the impact of climate factors	2	October18	
In-person tests	In-person lectures	The effect of plants and animals	Learn about the impact of plants and animals	2	November1	
In-person tests	In-person lectures	terrain	Terrain recognition	2	November8	
In-person tests	In-person lectures	erosion factor	Identify the effect of erosion factor	2	November15	

In-person tests	In-person lectures	The effect of running water	Get to know The effect of running water	2	November24
In-person tests	In-person lectures	The effect of wind factor and wind erosion and its role in soil transport	Identify the effect of wind, wind erosion and soil transport.	2	December1
In-person tests	In-person lectures	Time factor	Identify the effect of time factor	2	December 8
In-person tests	In-person lectures	Human factor	Recognizing the human factor	2	December15
In-person tests	In-person lectures	Soil forms	Identify soil types	2	December22
In-person tests	In-person lectures	soil texture	soil texture recognition	2	January1
	St	oring break from	5/1/2025 to 18/1/2025		
In-person tests	In-person lectures	Soil composition	Learn about soil composition	2	January26
In-person tests	In-person lectures	Soil thickness	Identify soil thickness	2	February7
In-person tests	In-person lectures	Chapter 1third/For the color of the soil	Identifying soil colors	2	February14
In-person tests	In-person lectures	Chapter 1third/Soil porosity	Identify soil porosity	2	February 12
In-person tests	In-person lectures	Features Chemical	Get to know features Chemical	2	February 82
In-person tests	In-person lectures	soil fertility	Identify soil fertility	2	March 6
In-person tests	In-person lectures	Chapter A For the fourth/Soil acidity and salinity	Identify soil acidity and salinity	2	March 13
In-person tests	In-person lectures	On the zonal soils	Identifying zonal soils	2	March 20
In-person tests	In-person lectures	Non-zonal soils	Identifying non- zonal soils	2	March 27

In-person	In-person	Soil	Learn about soil	2	April3
tests	lectures	maintenance	conservation		
=	=	=	Eid Al Fitr holiday	2	April 10
		Chapter	Identify agricultural	2	April 17
In-person	In-person	AFor the	cycles		
tests	lectures	fifth/Agricul			
		tural courses			
In-person tests	In-person lectures	slope gradient	Identify the slope gradient	2	April24
In-person tests	In-person lectures	Contour farming	Contour farming knowledge	2	April 31
			Final exams		Mays4-5

11. Course Evaluation

50 points for annual pursuit, 25 points for each semester, divided as follows:

20 marks for the written exam

5 marks per day, distributed between daily exams or reports.

50 marks final exam

12. Learning and teaching resources

- D. Safaa Majeed Al-Muzaffar Soil	Required textbooks (methodology if any)
Geography	
-Kamal Sheikh Hassan Biogeography and	Main References (Sources)
Soil,2011	
1-Soil Geography by Professor Dr Kazem	Recommended supporting books and references
Shanta Saad	(scientific journals reports)
•	(selentine journais, reports)
https://www.researchgate.net/publication/33	Electronic references, websites
2766418_jghrafyt_altrbt_talyf_alastadh_ald	
ktwr_kazm_shnth_sd_jamt_mysan_klyt_altr	
byt	

1. Program Vision

Remember to see the program as stated in the university's prospectus and website.

2. Program message

Remember RQuestionThe program is as mentioned in the university brochure and website.

3. Program objectives

General phrases describing what is intendedThe programOr the institution to achieve it.

4. Program accreditation

DoThe programIs the program accredited? And from which authority?

5. Other external influences

Is there a sponsor? Forprogram?

6. Program Structure									
comments	percentage	Study unit	Number of	Program					
			courses	Structure					
				Institutional					
				Requirements					
				College					
				Requirements					
				Department					
				Requirements					
				Summer training					
				Other					

*Notes may include whether the course is basic or optional.

7. Program Description			
Credit hours	Course name	Course code	Year/Level

practical			
	theoretical		

8. Expected learning outcomes of the program										
Knowledge										
Learning Outcome Statement 1 Learning Outcomes 1										
Skills										
Learning Outcome S	Statement 2	Learning	Outcomes 2	2						
Learning Outcome S	Statement 3	Learning	Outcomes	3						
Values		<u>.</u>								
Learning Outcome S	Statement 4	Learning	Outcomes	4						
Learning Outcome S	Statement 5	Learning	Outcomes	5						
9. Teaching and lea	arning strategies									
Teaching and learni	ng strategies and methods	s adopted in im	plementing	the program	ne in general.					
10. Evaluation met	thods									
Implementing it in a	all stages of the program i	n general.								
11. Faculty										
Faculty members										
Faculty preparatio	on Requirements/Ski	Requirements/Skills (if any)SpecializationAcademi								
lecturer angel			private	general	Rank					

Professional development

Orientation of new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-time faculty at the institutional and departmental levels.

Professional development for faculty members

Briefly describes the plan and arrangements for academic and professional development of faculty members such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criteria

(Setting regulations related to joining the college or institute, whether central admission or other mentioned)

13. The most important sources of information about the program

Remember briefly.

14. Program Development Plan

	Program Skills Chart														
	Required learning outcomes of the program														
	Val	lues			Sk	ills		Knowledge			Essentia	Cours	Cours	Year/Leve	
												optional ?	name	e coue	1
А	Α	А	А	В	В	В	В	А	А	А	Α				
4	3	2	1	4	3	2	1	4	3	2	1				

*Please tick the boxes corresponding to the individual learning outcomes of the programme being assessed.

Course Description Form

Geography of Iraq 2. Course code 454 GSO 3. Semester/Year 2024-2025 4. Date this description was prepared 18 /9 /2024 5. Available forms of attendance In-person lectures 6. Number of study hours (total) / Number of units (total) 60 hours / 4 units 7. Name of the course supervisor (if more than one name is mentioned) Name: M.M. Mohamed Salam Youssef Email: mohammed.yousif819@tu.edu.iq 8. Course objectives • Introducing students toContent of the geography of Iraq, including location, sections, surface, importance, climate, resources and population Empowerment Students fee map Iraq And signature Places Cities On it Ease of collecting the data and information they need in the future when preparing any research on a topic related to a specific aspect of Iraq's components, whether natural or human. 9. Teaching and learning strategies - In-person lectures. - Using brainstorming to develop skills. - Discussion method for the details of the lecture topic inside the classroom. - Weekly duties	1. Course nam	ne								
2. Course code 454 GSO 3. Semester/Year 2024-2025 4. Date this description was prepared 18 /9 /2024 5. Available forms of attendance In-person lectures 6. Number of study hours (total) / Number of units (total) 60 hours / 4 units 7. Name of the course supervisor (if more than one name is mentioned) Name: M.M. Mohamed Salam Youssef Email: mohammed.yousif819@dtu.edu.iq 8. Course objectives • Introducing students toContent of the geography of Iraq, including location, sections, surface, importance, climate, resources and population • Empowerment Students fce map Iraq And signature Places Cities On it • Ease of collecting the data and information they need in the future when preparing any research on a topic related to a specific aspect of Iraq's components, whether natural or human. 9. Teaching and learning strategies • In-person lectures. • Use the method of asking questions to students. • Using brainstorming to develop skills. • Discussion method for the details of the lecture topic inside the classroom. • Weekly duties	Geography of	Iraq								
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3. Semester/Year 2024-2025 4. Date this description was prepared 18 /9/2024 5. Available forms of attendance In-person lectures 6. Number of study hours (total) / Number of units (total) 60 hours / 4 units 7. Name of the course supervisor (if more than one name is mentioned) Name: M.M. Mohamed Salam Youssef Email: mohammed.yousif819@tu.edu.iq 8. Course objectives • Introducing students toContent of the geography of Iraq, including location, sections, surface, importance, climate, resources and population • Empowerment Students fee map Iraq And signature Places Cities On it • Ease of collecting the data and information they need in the future when preparing any research on a topic related to a specific aspect of Iraq's components, whether natural or human. 9. Teaching and learning strategies • In-person lectures. • Use the method of asking questions to students. • Using brainstorming to develop skills. • Discussion method for the details of the lecture topic inside the classroom. • Weekly duties	454 GSO									
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Name: M.M. Mohamed Salam Youssef Email: mohammed.yousif819@tu.edu.iq 8. Course objectives • Introducing students toContent of the geography of Iraq, including location, sections, surface, importance, climate, resources and population Subject objectives • Empowerment Students fee map Iraq And signature Places Cities On it Subject objectives • Ease of collecting the data and information they need in the future when preparing any research on a topic related to a specific aspect of Iraq's components, whether natural or human. Strategy 9. Teaching and learning strategies Strategy • Use the method of asking questions to students. Strategy • Use the classroom. Strategy	7. Ivanie of th	e course supervisor		e name is mentior	lieu)					
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8. Course objectives • Introducing students toContent of the geography of Iraq, including location, sections, surface, importance, climate, resources and population Subject objectives • Empowerment Students fee map Iraq And signature Places Cities On it Subject objectives • Ease of collecting the data and information they need in the future when preparing any research on a topic related to a specific aspect of Iraq's components, whether natural or human. Strategy 9. Teaching and learning strategies In-person lectures. Strategy • Use the method of asking questions to students. Strategy • Using brainstorming to develop skills. Discussion method for the details of the lecture topic inside the classroom. • Weekly duties 10. Course Structure		nonammed.yousnar	<u>9(w)tu.edu.lq</u>							
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10 Course Structure	- Weekly dutie	es								
	10. Course St	ructure	re							
Evaluation methodLearning methodName of the unit or topicRequired learning outcomesWatchesThe week	Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Watches	The week				
In-person testsIn-person lecturesGeographical location of IraqGet to know the geographical3September23333	In-person tests	In-person lectures	Geographical location of Iraq	Get to know the geographical	2	3 September				

			location of		
In-person tests	In-person lectures	The historical, economic, political and strategic importance of Iraq	Learn about the importance of Iraq's geography	2	4 September
TestIn attendance	LecturesPresence	Iraq's surface topography	Knowing the topography of Iraq	2	1 October
In-person tests	In-person lectures	Iraq climate	Knowing the climate of Iraq	2	2 October
In-person tests	In-person lectures	Types of climate in Iraq	Knowing the types of climate in Iraq	2	3 October
In-person tests	In-person lectures	The impact of climate on agricultural production in Iraq	Definition of climate impacts on agricultural production	2	4October
In-person tests	In-person lectures	Soil in Iraq	Knowledge of soil and its properties	2	1 October second
In-person tests	In-person lectures	Natural plants in Iraq	Identify the types of natural plants in Iraq	2	2 November
In-person tests	In-person lectures	People of Iraq	Learn about the population of Iraq	2	3 November
In-person tests	In-person lectures	Iraqi society patterns	Knowing the different patterns of Iraqi society	2	4 November
In-person tests	In-person lectures	Migration, its causes and means of treatment	Identifying the causes of migration and knowing how to treat it	2	1 December
In-person tests	In-person lectures	Social construction in rural Iraq	Identifying the social structure in rural Iraq	2	2 December
In-person tests	In-person lectures	Cultural development in Iraq	Knowing the cultural developments taking place in Iraq	2	3December
In-person tests	In-person lectures	Health development in Iraq	Knowing the health developments in Iraq	2	4 December

In-person tests	In-person lectures	Social development in	Knowing the social developments	2	1 January
		Iraq	taking place in		
		Quarties 1 - 1 - 6	Iraq		
		Spring break from5/1/	2025 to 18/1/2025		
		Fconomic	Identifying		4 January
In-person tests	In-person lectures	Development	agricultural	2	
		Development -	activity and its	2	
		Agriculture	Impact on		
			Introduction to		Echwary 1
In-person	In-person	- Water	Introduction to	2	redruary 1
tests	lectures	resources	Iraq's water	2	
			Introduction to		Echwycwy 2
In-person	In-person	Livesteel	Introduction to	2	repruary 2
tests	lectures	LIVESLOCK	iray sanimai woolth	2	
			wealli Introduction to		Eabra 2
In-person	In-person	Minaral wealth	Introduction to	2	redruary 3
tests	lectures	wineral wealth	may s mineral	2	
			Wealth Know the		Eabracer 4
In-person tests	In-person	Industry in	Know the	2	redruary 4
	lectures	Iraq	Industries In	4	
		Characteristics	Idontify		Marah 1
In-person	In-person	of industry in	industry	2	
tests	lectures	Irog	aharaataristias	2	
		Iraq	Knowing		Manah
In nomeon	In-person lectures	Iraq s industrial	Knowing Irea's		
111-person tosts		notontial	industrial	2	
15313		potential	notontiel		
		Industry at the	knowlodgo of		Marah 2
		nrosont time	modern		
In-person	In-person lectures	its types and	industries	2	
tests		distribution	their types and	2	
			distribution		
		Trada in Iraa	Learn about		March/
In-person	In-person	11 aut 111 11 ay	the prevailing	2	17141 (114
tests	lectures		trade in Iraa	-	
		Iraa's internal	Knowledge of		Anril1
In-person tests	In-person	trade	Iraa's internal	2	¹
	lectures	11 aut	trade	-	
		Iraa's foreign	Knowledge of		Anril?
In-person tests	In-person	trade	Iraa's foreign	2	
	lectures	11 aut	trade	-	
	+	Transnortation	View		Anril3
In-nerson	In-nerson	methods in	transnortation		
tests	lectures	Iraa	methods in	2	
tests		11 "4	Iraa		
	+	Roads in Iraa	Getting to		Anril4
		I INVAUS III II AU	Juing W	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
In-person	In-person		know the roads	2	•

In-person tests	In-person lectures	Waterways in Iraq	Getting to know the waterways in Iraq	2	Mays1
In-person tests	In-person lectures	Air routes in Iraq	Learn about air routes in Iraq	2	Mays2
	Mays3.4				

11. Course Evaluation The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc. 50 points for annual pursuit, 25 points for each semester, divided as follows: 20 marks for the written exam Allocating 5 points for daily attendance in in-person lectures, daily exams and reports. 50 marks for the end-of-year exam, so that the final total score is (100). 12. Learning and teaching resources All the books prescribed for the Required textbooks (methodology if any) subject, especially the modern ones. - Nouri Khalil Al-Barazi, Sakkar Al-Ani's speech, Geography of Iraq, Dar Al-Kutub for Printing and Publishing, University of Baghdad, 1985. -Geography of Iraq - its natural Main References (Sources) framework - its economic activity - its human aspect by Professor Dr. Abbas Al-Saadi - The textbook (Geography of Iraq) I recommend relying on modern sources, Recommended supporting books and references including the book "Lessons in (scientific journals, reports...) Geography - Iraq - the Arab World - the World."A-Dr. Ali Al-Mavah and others. In addition to all academic studies and scientific research published in academic scientific journals that are related to the subject's vocabulary. - Nouri Khalil Al-Barazi, Sakkar Al-Ani's speech, Geography of Iraq, Dar Al-Kutub for Printing and Publishing, University of Baghdad, 1985. All studies published on the Internet that Electronic references, websites are related to geographical termsIraq

1. Program vision

Remember to see the program as stated in the university prospectus and website.

2. Program message

Remember tAskThe program is as stated in the university's bulletin and website.

3. Program objectives

General statements that describe what he intends the programOr the institution

achieves it.

4. Programmatic accreditation

Dothe programHave program accreditation? From which side?

5. Other external influences

Is there a sponsor? Ofprogram?

6. Program structure										
comments	percentage	Study unit	Number of	Program						
			courses	structure						
				Enterprise						
				requirements						
				College						
				requirements						
				Department						
				requirements						

		summer
		training
		Other

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

7. Program description										
Credit hou	irs	Name of the course	Course or course	Year/level						
		or course	code							
practical	theoretical									

8. Expected learning outcomes of the program										
Knowledge										
Statement of learning outcomes 1 Learning outcomes 1										
Skills	Skills									
Statement of	flearning	outcomes 2	Learning	g outcome	es 2					
Statement of	flearning	outcomes 3	Learning	g outcome	es 3					
Value			Ι							
Statement of	flearning	outcomes 4	Learning	g outcome	es 4					
Statement of	flearning	outcomes 5	Learning	g outcome	es 5					
9. Teaching	and lear	ning strategies	<u> </u>							
Teaching an	d learning	strategies and metho	ds adopte	d in imple	menting th	e program in				
general.										
10. Evaluat	ion metho	ods								
Implementin	ng it in all	stages of the program	in genera	al.						
11. The tead	ching staf	f								
Faculty me	mbers									
Preparing t	he	Requirements/skills	s (if	Specializ	zation	Scientific				
teaching sta	ıff	any)				rank				
lecturer	angel			private	general					
I					1					

Professional development

Orienting new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-time

faculty at the institution and department levels.

Professional development for faculty members

Briefly describe the academic and professional development plan and arrangements

for faculty members such as teaching and learning strategies, assessment of learning

outcomes, professional development, etc.

12. Acceptance criterion

(Developing regulations related to admission to the college or institute, whether central admission or others mentioned)

13. The most important sources of information about the program

Remember briefly.

14. Program development plan

	Program skills chart														
	Learning outcomes required from the programme														
	Va	lue			Ski	lls		K	Know	ledg	je	Essenti	Cours	Cours	Year/lev
												al or	e	e	el
												optiona	Name	Code	
												1?			
С	С	С	С	В	В	В	В	Α	Α	Α	Α				
4	3	2	1	4	3	2		4	3	2	1				
							1								

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

Course description form 1. Course name Computer 2. Course code **104 GCS** 3. Semester/year 2025 - 2024.4The date this description was prepared 2024 / 9 / 18 .5Available forms of attendance **In-person** lectures .6Number of study hours (total) / number of units (total(60hours / 3 units .7Name of the course administrator (if more than one name is mentioned(Name: Dr. Abdul Rahman Abdul Karim Yahya Jassim Email: abdulrahman.yahya@tu.edu.iq .8Course objectives Subject objectives 1- Providing the Ministry of Education with specialized staff in teaching computer science in secondary schools. 2- Enabling female students to master aspects of spatial analysis of geographical factors affecting spatial variation 3- Enhancing female students' awareness of the horizons of diverse geographical culture, cultural and scientific in this specialization. 4- Enhancing the ability to interact with modern developments in geography through geographic technology 5- Providing graduates with the ability to deal with students by teaching geography according to the modern curriculum based on geographic technology represented by geographic information systems and remote sensing 9. Teaching and learning strategies

Strategy - Oral and written tests, individual and group, theoretical and practical. - Direct observation of the student's performance in the areas of dialogue, intellectual and scientific communication, and teamwork within the classroom and the college and university environment. Assigning students to prepare scientific research to test their ability to think, infer and solve problems.

Credit hours		Course name	Course code	Academic
practical	theoretical			stage
30	60	Computer		First Stage
4	8		Computer Basics	
2	4		Computer Concept	
2	4		Computer Generations	
3	6		Types of Computers	
3	6		Computer Features	
2	4		MS Office	
2	4		MS Word	

11. Course Evaluation

The grade is distributed as follows:

- 1- Exam No. 2 in the first course (20 points(
- 2- Exam No. 2 in the second course (20 points(
- 3- Reliance on class participation (5 points(
- 4- Homework (5 points(
- 5- Final exam for the academic year (50%(

12. Learning and teaching resources

Windows system, Microsoft Office	Required textbooks (methodology if any)
	Main references (sources)
	Recommended supporting books and references (scientific
	journals, reports)
Link to the program on the Internet, and its applications in similar universities.	Electronic references, Internet sites

Course description form

1. Course name

Geographical research methods

2. Course code

GGS 334

3. Semester/year

2024 /2025

4. The date this description was prepared

18 / 9 / 2024

5. Available forms of attendance

My presence

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

Number of hours: 60 / Number of units: 4

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

Name: M. Huda Neama Hamad Email:h_hamad@tu.edu.iq

8. Course objectives

Teaching the student how to • conduct scientific research step by step Identify geographical • scientific research methods and choose the appropriate one Introducing the student to • how to write and record various research sources Access to the most • important geographical sources, ancient and modern	Objectives of the study subject
9. Teaching and learning strategies	
Lectures	Strategy: Class lectures in an interactive
	manner

Course stru	ucture	.10			
Evaluatio n method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
Class performan ce and exams	Standard method	Introducing human intellectual production in general	Identify the forms of scientific intellectual production	2	September 3
Class performan ce and exams	Standard method	Definitions of scientific research terms	Identify the most important scientific research terms	2	September 4
Class performan ce and exams	Standard method	History of scientific research	Giving an idea about the stages of systematic scientific research	2	October 1
Class performan ce and exams	Standard method	Fields of scientific research		2	October 2
Class performan ce and exams	Standard method	Thought and thinking	Identify the meaning of thought and thinking and what is related to them	2	October 3
Class performan ce and exams	Standard method	Classification of sciences	Learn about the types of science	2	October 4
Class performan ce and exams	Standard method	Stages of research preparation	Start preparing for the search	2	November 1
Class performan	Standard method	Problem selection stage	Identify the first stage	2	November 2

1	1				1
ce and					
			T		Nasaan kan 2
		Wide critical	Learn		November 3
		readings	about the		
			second		
01			stage	2	
Class	Standard	The stage of	How to	2	November 4
performan	methodH	designing the	design the		
ce and		research plan	plan		
exams		and formulating			
<u></u>		hypotheses			
Class	Standard	Research	= = =	2	December 1
performan	method	justifications			
ce and					
exams					
Class	Standard	Elements of the	= = =	2	December 2
performan	method	research plan:			
ce and		formulating the			
exams		title and			
		problem			
Class	Standard	Formulating	= = =	2	December 3
performan	method	goals and			
ce and		importance			
exams				_	
Class	Standard	The stage of	Learn	2	December 4
performan	method	collecting	about ways		
ce and		information and	to collect		
exams		how to record it	informatio		
			n		
===	===	===	===		January 1
			Spring		January 2 and
			break		3
	Standard	Structural	Data		January 4
	method	theoretical	collection		
		method			
Class	methodsta	Statistical and	Data	2	February/1
performan	ndardstan	field method	collection		
ce and	dard				
exams					
Class	Standard	The process of	How to	2	February 2
performan	method	analyzing and	analyze		
ce and		presenting	and display		
exams		information	data		
Class	Standard	Types of	Learn	2	February3

		1	1	1	
performan	method	sources	about		
ce and	Text		dividing		
exams	method		sources		
Class	Standard	Paper sources	Identify the	2	February4
performan	method		types of		
ce and			naper		
exams			sources		
Class	Standard		= = =	2	February 4
nerforman	method				1 coruary 4
ce and	method				
evame					
Class	Standard	Newweek	Idontification	2	Marah 1
	Standard	Non-paper	Identify the	2	Iviai cii i
performan	method	sources	types of		
ce and			non-paper		
exams			and		
			electronic		
			sources		
Class	Standard	=====		2	March2
performan	method				
ce and					
exams					
Class	Standard	Types of	Learn	2	March3
performan	method	geographical	about		
ce and		curricula	geographic		
exams			al research		
			methods		
writing a	Standard	===	= = =	2	April 1
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	geographical	important		
	sources	geographic		
		al sources		
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	some library			
	resources			

11. Course evaluation

Score distribution out of 100:

First semester: 25 marks: written + daily preparation

Second semester: 25 marks: written + daily preparation

Final exam: 50 marks: written

12. Learning and teaching resources

Binding prepared by the subject	Required textbooks (methodology, if any)
teacher + a book on geographical	
research methods / by Muhammad	
Azhar Saeed Al-Sammak	
Wajih Mahjoub / Scientific	Main references (sources)
research methods	
Amer Kandilji/Scientific research	
methods and use of information	
sources	
All available in libraries and on the	Recommended supporting books and
net	references (scientific journals, reports)
Everything is available on	Electronic references, Internet sites
specialized scientific websites	

1. Program vision

Remember to see the program as stated in the university prospectus and website.

2. Program message

Remember tAskThe program is as stated in the university's bulletin and website.

3. Program objectives

General statements that describe what he intends the programOr the institution

achieves it.

4. Programmatic accreditation

Dothe programHave program accreditation? From which side?

5. Other external influences

Is there a sponsor? Ofprogram?

			6. Pro	ogram structure
comments	percentage	Study unit	Number of	Program
			courses	structure
				Enterprise
				requirements
				College
				requirements
				Department
				requirements

		summer
		training
		Other

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

7. Program description

	Credit hours	Name of the course or course	Course or course code	Year/level
practical	theoretical			

8. Ex	pected learning outcomes of the program
	Knowledge
Statement of learning outcomes 1	Learning outcomes 1
	Skills
Statement of learning outcomes 2	Learning outcomes 2
Statement of learning outcomes 3	Learning outcomes 3
	Value
Statement of learning outcomes 4	Learning outcomes 4
Statement of learning outcomes 5	Learning outcomes 5
	9. Teaching and learning strategies
Teaching and learning strategies and method	ods adopted in implementing the program in
	general.
	10. Evaluation methods

Implementing it in all stages of the program in general.											
teaching staff	11. The t										
lty members	Facu										
Scientific	cialization	Spee	Requirements/skills (if	Preparing the							
rank			any)	teaching staff							
	general	private		angel	lecturer						

Professional development

Orienting new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-time

faculty at the institution and department levels.

Professional development for faculty members

Briefly describe the academic and professional development plan and arrangements

for faculty members such as teaching and learning strategies, assessment of learning

outcomes, professional development, etc.

12. Acceptance criterion

(Developing regulations related to admission to the college or institute, whether central admission or others mentioned)

13. The most important sources of information about the program

Remember briefly.

14. Program development plan

Program skills chart															
Learning outcomes required from the programme															
	Va	lue			Ski	lls		Knowledge			e	Essentia	Cours	Cours	Year/lev
												l or	e	e	el
												optional	Name	Code	
							-					?			
С	С	С	С	В	В	В	В	Α	Α	Α	Α				
4	3	2	1	4	3	2		4	3	2	1				
							1								

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

Course description form

1. Course name

Geography of Iraq

2. Course code

454 GSO

3. Semester/year

2024-2025

4. The date this description was prepared

18/9/2024

5. Available forms of attendance

In-person lectures

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

60 hours / 4 units

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

Name: M.D. Fatima Ibrahim Tohme

Email: Fatimah.tuamah471@tu.edu.iq

	8. Course objectives					
 Introducing students toContent of the geography of Iraq, including location, sections, surface, importance, climate, resources, and population. Enable the students fee a map Iraq And signature Places the cities on her Ease of collecting the data and information they need in the future when preparing any research on a topic related to a specific aspect of Iraq's components, whether natural or human. 	Objectives of the study subject					
	9. Teaching and learning strategies					
- In-person lectures. - Use the method of asking questions to students. - Using brainstorming to develop students' skills.	The strategy					
- Discussion method for details of the lecture topic in the classroom - Weekly duties10. Course structure the weekly dutiesEvaluatio n methodLearning method unit or topicName of the unit or topicNequired learning outcomeshoursthe weekly dutiesIn-person testsIn-person lecturesgeographical iccation of iraqCourse geographical iccation of iraq3September geographical iccation of iraq3September geographical iccation of iraqIn-person testsIn-person lecturesSurface topography of iraqLearn about iraq geography4September importance of iraq'sIn-person testsIn-person lecturesSurface climate in iraq climate in iraqKnowledge of iraq's1October iraq'sIn-person testsIn-person lecturesClimate of Iraq climate in IraqSociation of iraq's3October iraq'sIn-person testsIn-person lecturesTypes of climate in IraqClimate of iraq's3October iraq'sIn-person testsIn-person lecturesSocial in Iraq climate on agricultural production in agricultural production in iraq4OctoberIn-person testsIn-person lecturesSocial in Iraq climate of climate on agricultural production in iraq1 NovemberIn-person testsIn-person lecturesSocial in Iraq of iraq1 November solia in Iraq2 NovemberIn-person testsIn-person lecturesNatural plants in Iraq2 NovemberIn-person tests						
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In-person testsIn-person lecturesPatterns of Iraqi societyKnowing the different Iraqi society4 NovemberIn-person testsIn-person lecturesPatterns of Iraqi society011In-person testsIn-person lecturesMigration, its causes, and means of treatmentIdentify the causes of migration and to treat them11	tests	In-person lectures	Iran	the population	2	
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In-person testsIn-person lecturesMigration, its causes, and means of treatmentIdentify the migration and to treat them1December	tests		Iraqi society	patterns of	2	
In-person testsIn-person lecturesMigration, its causes, and means of treatmentIdentify the causes of migration and find out ways to treat them1December				Iraqi society		
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tests in-person lectures means of find out ways treatment to treat them	In-person		causes. and	causes of	~	
treatment to treat them	tests	in-person lectures	means of	migration and	2	
to treat them			treatment	to troat them		
	<u> </u>					

In-person tests	In-person lectures	Social construction in the Iraqi countryside	Identifying the social structure in rural Irag	2	2December
In-person tests	In-person lectures	Cultural development in Iraq	Knowledge of cultural developments taking place in Iraq	2	3December
In-person tests	In-person lectures	Health development in Iraq	Knowledge of health developments taking place in Iraq	2	4December
In-person tests	In-person lectures	Social development in Iraq	Knowledge of social developments taking place in Iraq	2	5 December
	Spring I	break from 5/1/20	25 to 18/1/2025		
In-person tests	In-person lectures	Economic development - agriculture	Identify agricultural activity and its impact on development	2	3January
In-person tests	In-person lectures	- Water Resources	Introducing Iraq's water resources	2	4January
In-person tests	In-person lectures	Livestock	Introducing Iraq's livestock	2	1 February
In-person tests	In-person lectures	Mineral wealth	Introducing Iraq's mineral resources	2	2 February
In-person tests	In-person lectures	Industry in Iraq	Knowledge of existing industries in Iraq	2	3 February
In-person tests	In-person lectures	Characteristics of industry in Iraq	Identify the characteristics of the industry	2	4 February
In-person tests	In-person lectures	Iraq's industrial potential	Knowing Iraq's industrial potential	2	1 March
In-person tests	In-person lectures	The industry at present, its types and distribution	Knowledge of modern industries, their types	2	2 March

			and			
			distribution			
In porson		Trade in Iraq	Identify the		3 March	
toete	In-person lectures		prevailing	2		
ເຮຣເຣ			trade in Iraq			
		Iraq's internal	Knowledge of		4 March	
In-person	In-nerson lectures	trade	Iraq's internal	2		
tests	in-person lectures		trade	-		
In-nerson		Iraq's foreign	Knowledge of		5 March	
tests	In-person lectures	trade	Iraq's foreign	2		
10313			trade			
In-nerson		Transportation	Access to		1 April	
tests	In-person lectures	routes in Iraq	transportation	2		
10010			routes in Iraq			
In-person		Land roads in	Getting to		2 April	
tests	In-person lectures	Iraq	know the land	2		
10010			roads in Iraq			
		Waterways in	Getting to		3 April	
In-person	In-nerson lectures	Iraq	know the	2		
tests			waterways in	-		
			Iraq			
In-person	In-person lectures	Air routes in	Getting to	2	4 April	
tests		Iraq	know the air			
			routes in Iraq			
final exams Mays1,2						

11. Course evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as

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

50 marks for the annual endeavor, 25 marks for each semester, divided as follows: 20 marks for the written exam

Allocating 5 marks for daily attendance in in-person lectures and between daily exams and reports.

50 marks for the end-of-year exam, so the final total score is (100)

12. Learni	ing and teaching resources
All books prescribed for the subject, especially modern	Required textbooks
ones	(methodology, if any)
- Nouri Khalil Al-Barazi, Khattab Sakkar Al-Ani, The	
Geography of Iraq, Dar Al-Kutub for Printing and Publishing University of Baghdad 1985	
r donsning, Oniversity of Daghead, 1965.	
-The geography of Iraq - its natural framework - its economic	Main references (sources)
- The methodological book (Geography of Iraq)	
I recommend adopting modern sources, including the book	Recommended supporting
Lessons in Geography - Iraq - The Arab World - The	books and references
Worlda-Dr Ali Al-Mayah and others. In addition to all academic studies and scientific research	(scientific journals
published in academic scientific journals that are related to	(scientific journais,
the vocabulary of the subject.	reports)
- Nouri Khalil Al-Barazi, Khattab Sakkar Al-Ani, The	
Geography of Iraq, Dar Al-Kutub for Printing and	
Publishing, University of Baghdad, 1985.	
All studies published on websites that are related to	Electronic references,
geographical vocabularylraq https://apps.who.int/iris/bitstream/bandle/10665/320/20/0780	Internet sites
nups.//apps.wno.nu/mis/onsucani/nanuic/10005/529429/9709	
240006119-ara.pdf	

1. Program vision

Remember to see the program as stated in the university prospectus and website.

2. Program message

Remember tAskThe program is as stated in the university's bulletin and website.

3. Program objectives

General statements that describe what he intends the programOr the institution achieves it.

4. Programmatic accreditation

Dothe programHave program accreditation? From which side?

5. Other external influences

Is there a sponsor? Ofprogram?

			6. Pro	ogram structure
comments	percentage	Study unit	Number of	Program
			courses	structure
				Enterprise
				requirements
				College
				requirements
				Department
				requirements
				summer

training					
Other					
core or elective.	hether the course is	clude w	*Notes may in		
ram description	7. Prog				
Year/level	Course or course	rse	Name of the cou	redit hours	(
	code	rse	or cou		
				theoretical	practical
of the program	earning outcomes	pected	8. Ex		
Knowledge					
rning outcomes 1	Lea		rning outcomes 1	atement of lea	St
Skills					
ming outcomes 2	Lea		rning outcomes 2	tement of lea	St
ming outcomes 3	Lea		rning outcomes 3	tement of lea	St
Value		Γ			
rning outcomes 4	Lea		rning outcomes 4	tement of lea	St
rning outcomes 5	Lea		rning outcomes 5	tement of lea	St
rning strategies	Teaching and lea				
g the program in	ted in implementir	ods ado	rategies and metho	nd learning s	Teaching
general.	10 5				
iuation methods	IU. Eva	inciti	T		
ogram in general.	all stages of the pro-	ing it in	Implement		
	11 70				

				Facu	lty members
Preparing the		Requirements/skills (if	Spec	cialization	Scientific
teach	ning staff	any)			rank
lecturer	angel		private	general	

Professional development

Orienting new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-time

faculty at the institution and department levels.

Professional development for faculty members

Briefly describe the academic and professional development plan and arrangements

for faculty members such as teaching and learning strategies, assessment of learning

outcomes, professional development, etc.

12. Acceptance criterion

(Developing regulations related to admission to the college or institute, whether central

admission or others mentioned)

13. The most important sources of information about the program

Remember briefly.

14. Program development plan

	Program skills chart														
				Ι	Learn	ing o	outc	come	s req	uirec	l fron	n the progr	amme		
	Va	lue			Ski	lls		ŀ	Know	ledg	e	Essentia	Cours	Cours	Year/lev
										-		l or	e	e	el
												optional	Name	Code	
												?			
С	С	С	С	В	В	В	В	Α	A	Α	Α				
4	3	2	1	4	3	2		4	3	2	1				
							1								

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

Course description form

1. Course name

Development and planning

2. Course code

226 GGDP

3. Semester/year

2024-2025

4. The date this description was prepared

18/9/2024

5. Available forms of attendance

In-person lectures

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

60 hours / 4 units

	7. Name	of the course admir	nistrato	or (if more than on	e name i	s mentioned)		
	Name: M.D. Fatima Ibrahim Tohme							
	Email: Fatimah.tuamah471@tu.edu.iq							
					8. Cour	rse objectives		
Dev Geog Enable Planning know Workin know cond enabl infor prep - Use the - Using br	identification Students on Concept Objectives of the study subject Development And planning,And its role Objectives of the study subject Geographic in Planning For development Regional. Enable Students in to understand practical • Planning And its impact in Development And • knowledge Planning Regional And urban. • Working to help students acquire sufficient • knowledge of everything surrounding the • concept of development and planning to • enable them to easily collect the data and • information they need in the future when • preparing any research on the subject of • - In-person lectures. • - Use the method of asking questions to students. • - Using brainstorming to develop students' skills •							
- Disc	cussion methe	od for details of the l topic in the class - Weekly	lecture sroom. duties					
					10. Cou	rse structure		
Evaluati on method	Learning method	Name of the unit or topic	R	equired learning outcomes	hours	the week		
In- person tests	In-person lectures	Development-Its concept-Its traditional and modern vision	tradi	Knowledge of development, its concept, and its tional and modern vision	2	3September		
In- person tests	In-person lectures	Development principles and goals	Development Knowledge of 4September rinciples and development principles 2 goals and goals					
In- person tests	In-person lectures	Difficulties facing development	Difficulties facing Identify the difficulties 2 1 Octobe development facing development 2					
In- person tests	In-person lectures	Obstacles to economic development	Obstacles to economicKnowing the obstacles to economic2 Octob 2developmentdevelopment					
In- person	In-person lectures	Economic backwardness	Kn	ow the concept of economic	2	3 October		

tests			backwardness		
		Factors of			4 October
In-	In noroon	interest in the	Identify the factors of		
person	In-person	issue of	interest in the issue of	2	
tests	lectures	underdevelopme	underdevelopment		
		nt			
In-	In-nerson	Criteria for	Know the criteria for		1 November
person	lectures	economic	economic	2	
tests		backwardness	backwardness		
In-		Characteristics of	Knowledge of the		2 November
person	In-person	economic	features of economic	2	
tests	lectures	backwardness/str	backwardness/structur		
		uctural features	al reatures		2 November
In		Characteristics of	characteristics of		3 November
noreon	In-person	economic		2	
tosts	lectures	backwardness/ph	backwardness/phonom	2	
16313		enotypic features	enological features		
ln-		Theories of	Learn about the		4 November
person	In-person	economic	theories of economic	2	
tests	lectures	backwardness	backwardness	-	
In-		Economic			1December
person	In-person	development	Know what economic	2	
tests	lectures	requirements	development requires		
		The role of the			2December
		state in light of	Learn about the role of		
In		economic	the state in light of		
norson	In-person	transformations	economic	2	
tests	lectures	in light of the	transformations in light	_	
10515		development of	of the development of		
		economic	economic thought		
		thought			
In-		Justifications for	Knowing the reasons		3December
person	In-person	state intervention	and justifications for	2	
tests	lectures	in economic	state intervention in		
In		activity	economic activity		4Docombor
nerson			Know the concept of		4December
tests	In-person	Planning concept	Know the concept of	2	
	lectures		pianning		
In					5 December
noreon	In-person	Planning motives	Know the motives for	ົ	5 December
tosts	lectures	Fianning mouves	planning	2	
10313		pring break fron	n 5/1/2025 to 18/1/2025		
In-	•				3 Januarv
person	In-person	Planning	Identify the planning	2	
tests	lectures	objectives	objectives	_	
l a		Pooio principles	Identify the basic		4 January
IN-	In-person	Dasic principles	principles	n	
toete	lectures	of nlanning	(characteristics) of	2	
15313		or planning.	planning.		
In-	In-person	Planning	Identify the elements or	2	1 February

person tests	lectures	elements or components	components of planning					
In- person tests	In-person lectures	Types of planning	Learn about the types of planning	2	2 February			
In- person tests	In-person lectures	Natural layout	Know what natural planning is	2	3 February			
In- person tests	In-person lectures	Human planning	Know what human planning is	2	4 February			
In- person tests	In-person lectures	Planning stages	Learn about the planning stages	2	1 March			
In- person tests	In-person lectures	Planning by level or size	Knowledge of layout by level or size	2	2 March			
In- person tests	In-person lectures	Planning in developed countries	Learn about planning in developed countries	2	3 March			
In- person tests	In-person lectures	Planning in developing countries	Knowledge of planning in developing countries	2	4 March			
In- person tests	In-person lectures	Planning theories Classical planning theories	Learn about planning theories	2	5 March			
In- person tests	In-person lectures	Planning theories Modern planning theories	Learn about planning theories	2	1 April			
In- person tests	In-person lectures	Problems and difficulties facing the planning process	Identify the problems and difficulties facing the planning process	2	2 April			
In- person tests	In-person lectures	Difficulties resulting from people in the planning process	Knowing the difficulties of planning resulting from people	2	3 April			
In- person tests	In-person lectures	Planning difficulties resulting from the complexity of the planning process itself	Knowing the difficulties of planning resulting from the complexity of the planning process itself	2	4 April			
	final exams 2,1 Mays							

11. Course evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student,

such as daily preparation, daily, oral, monthly, written exams, reports, etc.

50 marks for the annual endeavor, 25 marks for each semester, divided as follows: 20 marks for the written exam

Allocating 5 marks for daily attendance in in-person lectures and between daily exams and reports.

50 marks for the end-of-year exam, so the final total score is (100)

	8 8
All books prescribed for the	Required textbooks (methodology, if any)
subject, especially modern ones	
 Development Geography Book (Concepts - Theories - Application) by Dr. Muhammad Dalf Ahmed and others, 2008 AD. Othman Muhammad Ghoneim, 	Main references (sources)
Introduction to Regional	
Development Planning, 2009 AD.	
I recommend adopting modern	Recommended supporting books and
Development Geography. In addition to all academic studies	references (scientific journals, reports)
and scientific research published in	
academic scientific journals that are	
related to the vocabulary of the	
subject.	
All studies published on websites	Electronic references, Internet sites
that are related to the vocabulary of	
development geography And	
planning	

12. Learning and teaching resources

Geographical techniques

2. Course Code

221 G GT

3. Semester/Year

2024-2025

4. Date of preparation of this description

18/9/2024

5. Available Attendance Forms

Face-to-face lectures

6. Number of credit hours (total) / number of units (total)

60 hours / 4 units

7. Course administrator's name (if more than one name is mentioned)

Name: Assistant lecturer . Huda Nasser Najm Email:huda.n.najim@tu.edu.iq

8. Course Objectives

Course Objectives	Introducing students to geographical	
	techniques in terms of foundations and	
	principles, their importance, types,	
	functions and characteristics	
	Developing skills for software used in	
	geographic techniques	
	Introducing students to the scientific	
	applications of geographical techniques	
	applications of geographical teenindues	
	Teaching students the practical uses of	
	geographic techniques	
	Providing students with the skills of using	
	geographical techniques in the departments	

	of natural and human geography
9. Teaching and learning strategies	
Strategy	 The use of brainstorming in the development of skills. The method of discussion in the daily lecture inside the classroom.

10. Course Structure

The week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
September1	2	Learn about the concept ofGPS, its advantages and functions	GPS System	Face-to- face lectures	Attendance tests
Sep 2	2	Learn about the sections of the system and how it works	GPS	Face-to- face lectures	Attendance tests
October 1	2	Identify the process of receiving information and determine the coordinates on the ground	How GPS works	Face-to- face lectures	Attendance tests
October2	2	Identify fixed and mobile observations	Practical monitoring methods of the system	Face-to- face lectures	Attendance tests
October 3	2	ldentify the	RS remote	Face-to-	Attendance

		concept of remote sensing and its basic elements	sensing	face lectures	tests
October 4	2	Student Definition A brief history of remote sensing	A brief history of remote sensing	Face-to- face lectures	Attendance tests
November 1	2	Student Definition of Electromagnetic Radiation	Electromagnetic radiation	Face-to- face lectures	Attendance tests
November 2	2	Student Definition of Electromagnetic Radiation Reactions	Electromagnetic radiation reactions	Face-to- face lectures	Attendance tests
November 3	2	Student definition of electromagneti c radiation emission from earth surface materials	Emission of electromagneti c radiation from the materials of the earth's surface	Face-to- face lectures	Attendance tests
November 4	2	Student Definition of Electromagnetic Radiation Interactions in Microwaves	Electromagnetic radiation reactions in microwaves	Face-to- face lectures	Attendance tests
December 1	2	Student Definition Remote Sensors	Remote Sensors	Face-to- face lectures	Attendance tests

December 2	2	Introducing the student to the means of carrying remote sensing	Rer car	note sensing rying means	Fa fa le	ace-to- ice ectures	At tes	tendance sts
December3	2	Student Definition of Remote Sensing Applications	StudentRerDefinition ofAppRemote SensingApplications		Fa fa le	ace-to- ice ectures	At tes	tendance sts
December 4	2	Identify passive and passive sensing systems	Typ sen	Types of remote sensing		ace-to- ice ectures	At tes	tendance sts
January 1	2	Identify the stages of passing rays and spectral reflections	Ray transmission path		Fa fa le	ace-to- ice ectures	At tes	tendance sts
Spring break from 5/1/2025 to 18/1/2025								
January 2	2	Identify the extent and benefit from it in studies		Remote sensing features		Face-to face lecture	D- es	Attendance tests
February 1	2	Identify the means of sensing and classification of satellites		Satellites		Face-to face lecture	D- SS	Attendance tests
February 2	2	Identify the cause of satellite visuals and interpret their color gradations		Digital Image	es	Face-to face lecture	D- 25	Attendance tests
February 3	2	Identify the definition of aerial photographs		Aerial photo	S	Face-to face) -	Attendance

		and their types		lectures	tests
February 4	2	Recognize the meaning of mosaic and its uses	Mosaic	Face-to- face lectures	Attendance tests
March 1	2	Identify the most important stages of interpretation and analysis of aerial photographs	Interpretation of aerial photographs	Face-to- face lectures	Attendance tests
March 2	2	Identify the approved foundations for satellite visual analysis	Interpretation of satellite visualizations	Face-to- face lectures	Attendance tests
March 3	2	Comparison of aerial and visual images in terms of features and use	Aerial and satellite visual images	Face-to- face lectures	Attendance tests
March 4	2	RecognizeDEM, DTMand TIN	Three- dimensional models	Face-to- face lectures	Attendance tests
April 1	2	Learn the steps to apply the digital model	DEM Model	Face-to- face lectures	Attendance tests
April 2	2	Identify the most important applications of models and the extent of their benefit	Uses of three- dimensional models	Face-to- face lectures	Attendance tests
April 3	2	Introducing the student to what GIS is	What is GIS?	Face-to- face lectures	Attendance tests

April 4	2	Introducing the student to a brief history of geographic information systems	A brief history of GIS	Face-to- face lectures	Attendance tests
Mays 1	2	Introducing the student to the relationship of GIS with other sciences	The relationship of geographic information systems with other sciences	Face-to- face lectures	Attendance tests
Mays 2	2	Introduce the student to the advantages of GIS	Advantages of GIS	Face-to- face lectures	Attendance tests
Mace 3.4		Final Exams			

11. Course Evaluation

50 degrees for the annual quest by 25 degrees for each semester and divided as follows:

20 marks for the written exam

5 daily grades distributed between daily exams or reports

50 marks for the end-of-year exam

12. Learning and Teaching Resources	
Required textbooks (methodology, if any)	Dr. Iyad Ashour Al-Tai Dr. Thaer Mazhar Al-Azzawi Modern
	technologies in the geography
Key references (sources)	Books, letters, theses and periodicals related to geographical techniques
	Information Network and Internet

Recommended books and references (scientific journals, reports)	There isn't any
Electronic References, Websites	There isn't any

Course Description Form

1. Course Name	
Geography of the Americas	
2. Course Code	
33 GNRG	
3. Semester/Year	
2	024/2025.
4. Date of preparation of this description	ion
2024/9/18	
5. Available Attendance Forms	
Face-to-face lectures	
6. Number of credit hours (total) / nur	nber of units (total)
60 hours / 4 units	
7. Course administrator's name (if mo	re than one name is mentioned)
Name: Assistant lecturer . Zainab Safa	a Bandarzainab.bandar337@tu.edu.iq
8. Course Objectives	
Course Objectives	- Identify the basic concepts in the America
	-Identify the origins of the two continents a development
	-Recognition of surface features and water
	-Learn about plant life, soils and climatic re
	- Identify the characteristics of the populat two continents and the activity of the paste

	Metals
	- Identify the elected geographical regions New World
	Learn why South America is called Latin
9. Teaching and learning strategies	
Strategy	- The use of brainstorming in the developm
	 - The method of discussion in the daily lect

10. Course Structure

The week	Hours	Required Learning Outcomes	Unit or subject name	Learni metho
September5	2	Identify the natural position of the continent in terms of area, location and geological structure	North America Geographical Framework	Face-t
Sep 4	2	Identify the most important clear chains and topographic surface features	Topography in North America	Face-t
October 1	2	Identify the temperature and rain situation in North America	Climate in North America	Face-t
October2	2	Identify the types of soils that prevail and their	Soil in North America	Face-t

		concentration places		
October 3	2	Identify the agricultural regions and the most important economic crops	Economic situation	Face-t lecture
October 4	2	Learn about the prevalent industries and industrial regions in North America	Economic situation	Face-t lecture
November 1	2	Learn about North America's mineral wealth	Economic situation	Face-t lecture
November 2	2	Learn about the Mississippi River Road and car routes	Transportation Routes in North America	Face-t lecture
November 3	2	Learn about North American settlement since its discovery	The human situation in North America	Face-t lecture
November 4	2	Recognize the human composition (American Indians, early immigrants, American Negroes)	Human condition	Face-t lecture
December 1	2	Identify the change in population	Population density and distribution	Face-t lecture

		numbers and distribution by population structure			
December 2	2	The concept and nature of the geographical region	Geographical North Americ	regions of a	Face-
December3	2	Identify the region in terms of location and agricultural and industrial activity	Middle Atlant	ic Region	Face-† lectur
December 4	2	To learn about the region in terms of location and agricultural and industrial activity	Appalachian F	Province	Face-† lectur
January 1	2	To learn about the region in terms of location and agricultural and industrial activity	Southern Reg	ion	Face-
Spring break from 2024/1/18 ^{ال} ي2024/1/5		.1	I		1
January 4	2	identify the term Lat its geographical bou and reason for the n	tin America, ndaries, area ame,	Definition of La America and geographical structure	itin
February 1	2	identify the sections surface and the perc make up	of the entage they	Structure and topography	

February 2	2	Identify the conditions of heat and rain in summer and winter	Weather and climate	F I
February 3	2	Identify the types of soils and their relationship to the spread of natural plants	Soil and natural vegetation	F
February 4	2	Getting to know the indigenous people of the continent Amerindians	Human conditions	F
March 1	2	Identify the mixed population of whites and Negroes	Human conditions	F
March 2	2	Identify agriculture and its economic importance	Natural resources	F
March 3	2	Identify metals and their economic impact	Mineral wealth	F
March 4	2	Learn about the industries prevailing on the continent	Industry	F
April 1	2	Identify all kinds of transport routes on the continent	Transportation	F
April 2	2	Identify the diversity of trade in terms of exports and imports	trade	F
April 3	2	Identify the distribution of geographical regions in Latin America	Geographical regions of Latin America	F
April 4	2	Identify the region in terms of population and agricultural and industrial activities	Central America Region	F
Mays 1	2	Identify the region in terms of population and agricultural and industrial activities	Mexico	F

Mays 2	2	Identify the region in terms of population and agricultural and industrial activities	Colombia	
Mace 3.4		Final Exams		

11. Course Evaluation

50 degrees for the annual quest by 25 degrees for each semester and divided as follows:

20 marks for the written exam

5 daily grades distributed between daily exams or reports

50 marks for the end-of-year exam

12. Learning and Teaching Resources

Required textbooks (methodology, if any)	Dr. Muhammad Hamid Al-Taie,
	University of Baghdad, Dr. Ali
	Hussein Al-Shalash, University of
	Basra, Dr. Wafiq Hussein Al-
	Khashab, University of Baghdad,
	Geography of the New World
	(Americas) 1980
Key references (sources)	There isn't any
Recommended books and references	There isn't any
(scientific journals, reports)	
Electronic References, Websites	There isn't any

Course description form

1. Course name

Educational guidance and mental health

2. Course code

GTG 43

3. Semester/year

2024/2025

4. The date this description was prepared

18 / 9 / 2024

5. Available forms of attendance

My presence

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

Number of hours: 60 / Number of units: 4

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

Name: M. Huda Neamah Hamad Email:h_hamad@tu.edu.iq

8. Course objectives

Building a teacher guide for •	Objectives of the study subject
schools	
Learn about the principles and •	
methods of counseling	
Adopting the scientific trend in •	
educational guidance based on	
scientific theories	

9. Teaching and learning strategies

Lectures	Strategy: Class lectures in an
	interactive manner

10. Course structure					
Evaluation	Learning	Name of the unit or	Required	hours	the week
methou	methou	topic	outcomes		
In-person tests	In-person lectures	Guidance and guidance	Identify the meaning of educational guidance and	2	September 3

			guidance	2	
===	===	Stages of guidance	===	2	September 4
===	===	Objectives of	===	2	October 1
		guidance and			
		counseling			
===		Principles of	===	2	October 2
		educational			
		guidance and			
		guidance			
===	===	The relationship	Identify the	2	October 3
		between counseling	areas and		
		and other sciences	methods of		
			counseling		
===	===	The problem of	Identify the	2	October 4
		academic delay	problems that		
			guidance		
			addresses		
===	===	The problem of		2	November
		cheating in			
		achievement tests			
===	===	Exam anxiety		2	November 2
		problem			
===	===	The problem of poor			November 3
		academic			
		achievement			
===	===	Philosophical,	Learn about	2	November 4
		psychological and	the basics of		
		social foundations	guidance and		
			counselling		
===	===	What is the theory?	Identify the	2	December 1
		Why are there so	most		
		many?	important		
			counseling		
			theories		
===	===	Psychoanalytic	===	2	December 2
		theory			
===	===	The goal of	===	2	December 3
		psychoanalytic			
		treatment and the			
		role of the counselor			
===	===	Behavioral theory	===	2	December 4
	===	Self theory	===	2	January 1
vacation	Vacation	vacation	vacation	+	Ianuary ?
*******					and 3 snrino
					break
	1		I	1	orvun

In-person	In-person	Methods of	Learn how to	2	January 4
tests	lectures	collecting	design a guide	-	o uniqui y
		information/building	information		
		the form	form		
===	===	Types of information	===	2	February 1
===	===	the interview	Learn how to conduct an interview	2	February 2
===	===	Note	How to conduct an observation	2	February 3
===	===	Tests and standards	Learn about tests and standards	2	February 4
		Case Study	===	2	March 1
		Anecdotal and cumulative record	===	2	March 2
In-person tests	In-person lectures	Preparing the teacher and educational guide	===	2	March 3
===	===	Parents councils	===	2	March 4
===	===	Mental health science/its goals	Learn about mental health science	2	April 1
===	===	Mental illness	Definition of mental illness	2	April 2
===	===	Some growth problems	The impact of developmental problems on counseling	2	April 3
===	===	Psychological crises	What are psychological crises?	2	April 4
===	===	Psychological disorders		2	May 1
===	===	Compatibility and adaptation	===	2	mais 2
					May 3 and 4 final exams

11. Course evaluation

Score distribution out of 100:

First semester: 25 marks: written + daily preparation

Second semester: 25 marks: written + daily preparation

Final exam: 50 marks: written

12. Learning and teaching resource	es
Guidance and mental health are	Required textbooks (methodology, if any)
mandatory / prepared by a	
committee of specialists	
The book of psychological and	Main references (sources)
educational guidance between	
theory and practice / Abdel Fattah	
Muhammad Al-Khawaja	
Psychological guidance and	
counselling, written by Kamila	
Farkh	
Journal of Educational and	Recommended supporting books and
Psychological Sciences	references (scientific journals, reports)
Everything is available on	Electronic references, Internet sites
specialized scientific websites	

.Authentication of Mr. Al-AmiDr

Model Description

1. Name of the judge

Geographic Eurasia

2. Decision of the resolution

216 GG

3. Chapter / year

2024/2023

4. Date set up this description

2024/9/18

5. Availability available

Litectural lectures

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

60 hours / 4 units

7. The name of the judge judge (if more than the name of the prohibited)

:Nameزينب E-mail: zainab.bandar337@tu.edu.iq0 صفاء بندر

	8. Objectives of the judiciary
A. Developing the student's ability to understand the material to acquire students' knowledge and ideas to obtain them in respect of sources and references of the Uruisia. Their and its request to understand the basics of the agroes of the agrace and their applications on the ground	Goals of the course
	9. Selecting education and learning
- discussing the lecture of the cup to develop skills Explain the discussion in the lecture of the annual cup	The strategy

		within the ha	llway.			
			I			10. Government
Method of evaluation	Method of learning	Name of the unit or the subject		Learning outputs required	Hours	The week
Ability to attend	Litectic lectures	Chapter I / Geographical Location Features of Asia Continue	cha geog	Identify the racteristics of the graphical location	2	September 3
Ability to attend	Litectic lectures	The objectives of the continent's Asia and its infrastructure	ld grand dei	lentify old blocks, mountain chains, l diverse, climate, residents and partments of Asia	2	September 4
Ability to attend	Litectic lectures	Gems	Get	ting to the jewels	2	October 1
Ability to attend	Litectic lectures	Republican Pakistan	Natu	ral recognition of the Republic of Pakistan	2	October 2
Ability to attend	Litectic lectures	Economic situation and economic activity	Iden situa	tify the economic and economic ation of economic	2	October 3
Ability to attend	Litectic lectures	The Southeast of Southeast States	multir	Identifying the countries of the national countries of Southeast Asia (Burma and Side)	2	October 4
Ability to attend	Litectic lectures	Natural support and economic situation	Id out	entify the natural ter and economic situation	2	November 1
Ability to attend	Litectic lectures	Status of the population and religious beliefs	Identi	fy the population and percentages	2	November 2
Ability to attend	Litectic lectures	Agricultural products and livestock	Defir impo and li	nition of the most ortant agricultural ivestock products	2	November 3

			for its states			
Ability to attend	Litectic lectures	The East Asia Diamond Countries	Definition of the popular state	2	November 4	
Ability to attend	Litectic lectures	But a natural	Identify the natural components and surface	2	December 1	
Ability to attend	Litectic lectures	Popular State climate	Dating on its climate	2	December 2	
Ability to attend	Litectic lectures	The climate of Asia continent	Learn about climatic conditions in the Netherlands	2	December 3	
Ability to attend	Litectic lectures	Factors influenced by the Asia continent	Identify the worker on the continent of Asia	2	December 4	
Ability to attend	Litectic lectures	Canadian body	The next-up selection	2	January 1	
	Spring vacation from 2024/1/5to2024/1/18					
Ability to attend	Litectic lectures	Temperature	Identify the types of the eternity of the ease	2	January 4	
Ability to attend Ability to attend	Litectic lectures	Temperature Natural eyes	Identify the types of the eternity of the ease Identify natural plants	2	January 4 February 1	
Ability to attend Ability to attend Ability to attend	Litectic lectures Litectic lectures Litectic lectures	Temperature Natural eyes Residents of Asia	Identify the types of the eternity of the ease Identify natural plants Identify the thin Asia	2 2 2	January 4 February 1 February 2	
Ability to attend Ability to attend Ability to attend Ability to attend	Litectic lectures Litectic lectures Litectic lectures Litectic lectures	Temperature Natural eyes Residents of Asia Most importantly in the heart of Asia	Identify the types of the eternity of the ease Identify natural plants Identify the thin Asia The selection of newcomers	2 2 2 2	January 4 February 1 February 2 February 3	
Ability to attend Ability to attend Ability to attend Ability to attend	Litectic lectures Litectic lectures Litectic lectures Litectic lectures Litectic lectures	Temperature Natural eyes Residents of Asia Most importantly in the heart of Asia Republican India	Identify the types of the eternity of the ease Identify natural plants Identify the thin Asia The selection of newcomers Identifying the Republic of India	2 2 2 2 2	January 4 February 1 February 2 February 3 February 4	

Ability to attend	Litectic lectures	Burma Origin of the	Identify the State of Burma and its characteristics	2	March 2
attend	Litectic lectures	Origin of the	characteristics		
Ability to	Litectic lectures	Origin of the	characteristics		
Ability to	Litectic lectures	Origin of the			
Ability to			Identify assets and	2	March 3
attend		label	reassure label		
		The	Identify the profit of	2	March 4
Ability to	Litectic lectures	characteristics	geography location		
attend		of the site are			
		characterized by			
Ability to		Electronic	Identify the floor of	2	Nissan 1
attend	Litectic lectures	installation	the Earth's surface		
Abilityta		Fact Arch	Identify the plains and	2	Nisson 2
Ability to	Litectic lectures	Easy Arab	Identify the plains and	2	NISSan Z
attend			religions in migrants		
Ability to		Middle concepts	Definition of the ears	2	Nissan 3
attend	Litectic lectures		to which they reached		
		Now it t	Determine the day of	2	Nissan 4
Ability to	Litectic lectures		the rivers in the Cub of		
attend			Europe		
		<u> </u>			
Ability to		Circus Circus	Climate recognition of	2	IVIISS 1
attend	Litectic lectures	Cub / Lattan	the barrel of Europe		
		Climate			
Ability to	Litectic lectures	Soil / plants /	Find out the trial and	2	Miss 2
attend		red kingdom	plants in the Kingdom		
			of Spain		
			Finals finals		Mag 2.4
			Finals finals		ivies 3,4

11. Rule of judge

50 degree for the kitchen is a real degree 25 degree per chapter and Callati section: 20 degree for the 11model exam distribution of a family distribution between daily examinations or stories 50 degrees last year

12.Clothes and learning

The specific books (the methodology found)	Books of the scientific study of the Asia and Europe.
Home References (Sources)	- Grandpa of Wrathia Orania neighbors / d. Qusay Hassan.
The new bulk books and references in the scientific	1 Abdul Razaq Abbas Hussein, Geographic Co.,
journals, reports)	2006 2006 Hyderabil Abdul Razak Soune, Town Planning, I 1, Dar Al-Affairs Cultural Affairs, Baghdad, 2007.3 Salah Dawood, Phenomenon of Override in Cities, The Massager of the Professor 1, Faculty of Education Ibn Rushd, 2007.
Electronic References, Locations Site	https://www.firasabdabduljabar.com/2022/10/ blogpost_17.html

Course description form

1. Name of the judg		
Biotaxonom		
2. Resolution cod		
112 G		
	3. Semester/year	
	2024/2025	
4. The date this description was prepared		
	2024/0/18	
	2024/9/18	
5. For availability available		
In-person lectures		
6. Number of study hours (total) / number of units (total)		
60 hours / 4 units		
7. The name of the judge (if more than the name of the prohibited person		
Name: M.M. Zainab Safaa Bandar Email: zainab.bandar337@tu.edu		
	8. Objectives of the judiciary	
1- To differentiate between biogeography and other geographical sciences. 2- To attract students to the level of variation and difference in the common field they share, and the level of its spread, and to clarify The relative degree between plants and animals. 3- Students' ability to discuss it and explain the importance of interest in studies related to specialized and vital health studies.	Objectives of the study subject	
	9. Choosing teaching and learning	
 Ask the students to familiarize themselves with the natural and biological subjects of the biogeographic 	The strategy	
subject and the foundations on which the study is based.		
---	--	
- Trying to link the vocabulary of the academic subject for		
students of the student body Method of discussion in		
the year's lecture within the academic university.		

10. System of government

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Ability to attend	In-person lectures	Biogeography and its relationship to other sciences	Geographical definition and its topics	2	November 1
Ability to attend	In-person lectures	Its importance is to shed light on living organisms	decorative	2	November 2
Ability to attend	In-person lectures	They worship the living	The spread of neighborhoods	2	November 3
Ability to attend	In-person lectures	Types of natural obstacles to spread	Identify the most important natural obstacles to spread	2	November 4
Ability to attend	In-person lectures	Fragmented sub-regions	Know how to form living areas	2	December 1
Ability to attend	In-person lectures	The size of the living area	Identify the sizes of living areas	2	December 2
Ability to attend	In-person lectures	Distribution of living organisms (fixed x non- fixed distribution)	Know the target area in the area	2	December3
Ability to attend	In-person lectures	Basic plant groups pose and composition	Introduction to plant classification	2	December 4
Ability to attend	In-person lectures	Climatic factors	Identify the relationship between the environment and living organisms	2	January 1

Ability to attend	In-person lectures	The effect of light on living organisms and plants	Knowing the effect of light on living organisms	2	January 4
Ability to attend	In-person lectures	Thermal accumulation and its relationship to plant growth	Know the temperature of your living space	2	February 1
Ability to attend	In-person lectures	The effect of humidity on plants and animals	Know the percentage of humidity and air	2	February 1
Ability to attend	In-person lectures	The effect of gases on the living body	Air	2	February 2
Ability to attend	In-person lectures	The effect of wind on alien organisms	Wind	2	February2
Ability to attend	In-person lectures	Allocation of chemical and chemical soils for plants	Knowledge of traffic isolation	2	
			Spring break from 2	024/3/1to2	2024/3/8.
Ability to attend	In-person lectures	Plants that live in limestone soils	Distinguish the chemical composition of soil	2	February 4
Ability to attend	In-person lectures	Determined and sandy soils	Knowing the types of plants according to the types of soil	2	March 1
Ability to attend	In-person lectures	Geomorpholo gical focus affecting Earth's surface forms	Knowing hate	2	March 2
Ability to attend	In-person lectures	Adjusting contour lines and football slopes	Selection at the regression level	2	March 3

Ability to attend	In-person lectures	Plant relations	Vital relationships	2	March 4
Ability to attend	In-person lectures	Intrusion and sponsor	Knowing the types of vital relationships	2	April 1
Ability to attend	In-person lectures	Competition between diverse organisms and animals	Mechanical mechanical relationships	2	April 2
Ability to attend	In-person lectures	Relationships between living organisms	ldentify vital relationships	2	April 3
Ability to attend	In-person lectures	Marine and ecological environment	Knowledge of the biological environments in the regional land	2	April 4
Ability to attend	In-person lectures	A panel of aquatic and environmental influences on living organisms	Identify salinity	2	Miss 1
Ability to attend	In-person lectures	The coastal and lower coastal areas	Knowledge of life in disciplines and oceans	2	Miss 2
Ability to attend	In-person lectures	Plants used in stagnant water	Learn about life in continental waters	2	
Ability to attend	In-person lectures	Population distribution	Good reward	2	
Ability to attend	In-person lectures	Distributive distribution	Animal distribution	2	
Ability to attend	In-person lectures	Subtropical regions	Identify semi-natural areas	2	
			Final finals		Mays 3,4

50 marks for realistic cuisine, 25 marks for each	chapter and section, as follows: 20 marks for the written
exam, 5 marks for the daily, distributed among d	laily exams or stories, 50 marks for the end-of-year exam.
	, , ,
	12 Learning and teaching resources
	12. Learning and teaching resources
Studies in geology	Specific books (methodology found)
Abu Samour, Biogeography Hassan Abu	Main references (sources)
Samour, Geographic Department 1995,	
University of Jordan, first edition,	
All essential modern Arab and foreign elements	Supporting books and references that cuts (scientific
in the geographical field of life	journals, reports)
adel.taha@tu.edu.iq	Electronic references, Internet sites

1. Course name	
dustrial Geography / The third stage	
2. Course code	
39GMGR	
3. Semester/Year	
2024/2025	
I. Date this description was prepared	
2024/9/18	
5. Available forms of attendance	
In-person lectures	
ours (total) / Number of units (total)	6. Number of study l
60Hour / 4 units	
f more than one name is mentioned)	7. Name of the course supervisor (
esraa.hamid326@tu.edu.iq الايميل	
8. Course objectives	
Subject objectives	A-Preparing teaching staff who are well aware of the importance of industry, its branches and its factors of progress for-Placing graduates within the general framework of the economic development of society to play an effective role in it C-Preparing cadres capable of better understanding environmental conditions and their problems, especially in terms of the relationship between industry and the

environment.						
	9. Teaching and learning strategies					
- Usir - Discus	ng brainstorming sion method in (to develop s daily lectureln the classro	kills. side oom.			Strategy
					10. Co	urse Structure
Evaluatio	Learning	Name of	Req	uired learning	Watch	The week
n method	method	the unit or topic		outcomes	es	
In-person tests	In-person lectures	Chapter One /Industry concept	Ind	ustry concept	2	September3
In-person tests	In-person lectures	Definition of industrial geography	Lea mo da	arn about the ost important efinitions of industrial geography	2	September 4
In-person tests	In-person lectures	The importance of industrial geography	Un im	derstand the portance of industrial geography	2	October1
In-person tests	In-person lectures	Research Methods in Industrial Geography	rese	Learn about earch methods in industrial geography	2	October 2
In-person tests	In-person lectures	Industrial localization factors	ld(entifying the factors of industrial ocalization	2	October3

In-person tests	In-person lectures	Standards used in the industry	Identify the most important criteria used in industrial geography	2	October4
In-person tests	In-person lectures	Data sources	Identify the most important data sources in industrial geography	2	November1
In-person tests	In-person lectures	Chapter Two / Industrial Activity Concepts	Learn about the most important concepts related to industrial activity	2	November2
In-person tests	In-person lectures	Extractive industries	Identify the most important extractive industries	2	November3
In-person tests	In-person lectures	Manufactur ing industries	The most important transformation industries with high economic returns	2	November4
In-person tests	In-person lectures	Industrial growth	Recognizing the importance of industrial growth and development	2	December1
In-person tests	In-person lectures	Industrial developme nt	Identify the most important means of using industrial development	2	December 2
In-person tests	In-person lectures	Manufactur ing	Recognizing the importance of manufacturing in all fields and types of industries	2	December3

In-person tests	In-person lectures	Industrial structure	Recognizing the importance of industrial structure for all industries	2	December4
In-person tests	In-person lectures	Elements Industrial	Location and site requirements	2	January 1
	Spring	g break from !	5/1/2024to 18/1/202	24	
In-person tests	In-person lectures	Chapter Three / The Origin of Industry	Learn about the emergence of different industries	2	January4
In-person tests	In-person lectures	Industry developme nt	The development in the field of various industries	2	February1
In-person tests	In-person lectures	Industrial activity classificati on	Identify the most important industrial classifications and activities	2	February2
In-person tests	In-person lectures	Factors of the establishm ent of industry	Identify the most important factors that lead to the establishment of industries	2	February 3
In-person tests	In-person lectures	Natural factors (climatic and surface)	Climatic factors that lead to the establishment of industry	2	February 4
In-person tests	In-person lectures	Economic factors	The most important economic factors that contribute to the establishment and development of industry	2	March 1
In-person tests	In-person lectures	theDemogr aphic	Identify the most important	2	March 2

		factors	demographic		
			factors that lead		
			to the		
			establishment of		
			various industries		
		Chapter	Learn about the	2	March 3
		Four/Indust	most important		
in-person	in-person	rial Site	theories of		
tests	lectures	Theories	industrial sites		
In-person	In-nerson	Industrial	Classification of	2	March 4
tosts		site	different types of		
16313	lectures	patterns	industrial sites		
		Chapter	Loorn chout the	2	
		Chapter	Learn about the	2	April1
In-person	In-person	Five /			
tests	lectures	industriai	policies for		
		Site	industrial sites		
		Policies			
		Problems	Identify the most	2	Anril 2
In-person	Lectures are	facing	important		
tests	in person.	industries	problems facing		
	-		all industries		
		problem	Identifying capital	2	April 2
In-person	In-person	Capital	problems in		April 5
tests	lectures		industries		
		Narrow	The problem of	2	April4
		space and	space congestion		
In norson	In norson	industrial	and distribution		
in-person	In-person	sites	of different		
lesis	lectures		industries		
		Industrial	Identify the most	2	Marra 1
		nollution	important	2	Mays 1
In-nerson	In-nerson	ponution	industrial		
toete	loctures		nollutante		
16313	lectures		roloacod by all		
			inductrice		
			แนนอนใช่อ		
In norcer		Fieldwork	Recognizing the	2	Mavs 2
m-person	m-person	in	importance of		5

tests	lectures	Industrial Studies	field work and collecting information about all industries	
			Final exams	 Mays3,4

	11. Course Evaluation
50 points for annual pursuit, 25	points for each semester, divided as follows:
	20 marks for the written exam
5 marks per day	, distributed between daily exams or reports.
	50 marks final exam
	12. Learning and teaching resources
- D.Mohammed Al Samak,And Abbas Al-Tamimi,Industry Geography,University of Mosul,1987	Required textbooks (methodology if any)
-Dr. Mohamed Asmak, Industrial Geography from a Contemporary Perspective	Main References (Sources)
1-Fundamentals of scientific research. its	Recommended supporting books and
methods and areas in industrial geography	references (scientific journals, reports)
CompositionATo Assistant Professor Dr.	
Rahman Rabbat Hussain	
Fundamentalsofscientificresearch,itsmethods and areas in industrial geographyAl-QadisiyahJournalForHumanitiesSciences(qu.edu.iq)	Electronic references, websites

The File is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Assist. Lect. Shahad Khaled Hamed

Date: Signature:

Approval of the Dean

Course Description Form

1. Course Name: General Geography, first stage

2. Course Code: **32fxolu**

3. Semester / Year: 2024-2025

4. Description Preparation Date 2024/9/18

5. Available Attendance Forms: In-person lectures

6. Number of Credit Hours (Total) / Number of Units (Total): 60 hours | 4 units

7. Course administrator's name (mention all, if more than one name)Name: M.M. Israa Mazen HamidEmail :esraa.hamid326@tu.edu.iq

8. Course Objectives
Developing students' ability
to understand the origins of
geographical phenomena and
address their problems.
*For students to become
familiar with geography

			scie	entists and the n	nost
			importan	t theories about	the
l			0	rigin of the univ	erse
				*For student	ts to
l			dif	ferentiate betw	een
			ge	ography and o	ther
			scie	ences related t	to it.
0 Тор	ching and Le	arning Strategies			
9. Tea		arming Strategies			
- Asking questions during lectures - Discussion method in the daily lecture in the classroom					
		and skills-Using	brainstorming t	o develop abilit	ies
10. Cours	se Structure				
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
			name	method	
		Outcomes			method
September 3	2	Identify the concept of geography	Chapter One Geography and its importance	In-person lectures	In-person tests
September 4	2	Identify the goals of geography and know the methods of researching them	Objectives of geography and methods of research therein	In-person lectures	In-person tests
October 1	2	Study of physical geography	Chapter Two Branches of Geography	In-person lectures	In-person tests
October2	2	Learn about the concept of human geography	Its sections and types	In-person lectures	In-person tests

October3	2	Study the concept of a map	Their types and importance	In-person lectures	In-person tests		
October 4	2	Learn about the concept of weather and climate	Chapter Three Weather and climate elements	In-person lectures	In-person tests		
November 1	2	Surface recognition	Know the factors affecting the surface	In-person lectures	In-person tests		
November 2	2	Learn about the climate	Study of climate elements	In-person lectures	In-person tests		
November 3	2	Learn about soil and its types	Capter Fourh Definition of soil	In-person lectures	In-person tests		
November 4	2	Earth's shape and movement	Types of movements	In-person lectures	In-person tests		
December 1	2	Study of soil uses	Human uses and uses	In-person lectures	In-person tests		
December 2	2	Learn about water resources	Its geographical distribution	In-person lectures	In-person tests		
December 3	2	Study of sources of water resources	to save it	In-person lectures	In-person tests		
December 4	2	Identify the measurements of river courses	Chapter Five: Measuring river courses	In-person lectures	In-person tests		
January 1	2	Study of geographical phenomena	Problems and solutions	In-person lectures	In-person tests		
	Spring Break from 1/8/2025to 1/3/2025						
January 4	2	Identify the ground terrain situation	Chapter Six Geographic information	In-person lectures	In-person tests		

			systems methods		
February 1	2	Study the problems facing the environment	Chapter Seven Pollution and earthquakes	In-person lectures	In-person tests
February 2	2	Weathering concept	Chapter Eight Types of weathering	In-person lectures	In-person tests
February 3	2	Rocks, their concept and types	Types of rocks	In-person lectures	In-person tests
February 4	2	Agriculture and its types	Chapter Nine Factors affecting agriculture	In-person lectures	In-person tests
March 1	2	Agricultural production patterns	Agricultural production patterns	In-person lectures	In-person tests
March 2	2	Industry concept Its sections	Chapter Ten Factors affecting the industry	In-person lectures	In-person tests
March 3	2	Study of population geography	Chapter Eleven Areas of population geography	In-person lectures	In-person tests
March 4	2	Population geography	Chapter Twelve Elements of state power	In-person lectures	In-person tests
April 1	2	Identify dams and reservoirs	Types of dams	In-person lectures	In-person tests
April 2	2	Identify natural phenomena	Mountains, plains, plateaus	In-person lectures	In-person tests
April 3	2	Erosion, transportation and sedimentation processes	Its types and importance	In-person lectures	In-person tests

April 4	2	Earth covers	Its types	In-person	In-person		
			its types	lectures	tests		
May 1	2	Earthquakes	Its types and	In-person	In-person		
		and volcanoes	causes	lectures	tests		
May 2	2		General	General			
	-		Review	Review			
May 3,4			final exams				
11. Course Evaluation							
 50 marks for the annual endeavor, 25 marks for each semester, divided as follows: 20 marks for the written exam 5 marks per day, distributed among daily exams or reports 50 marks for end-of-year exam 12. Learning and Teaching Sources 							
Required if any)	textbooks (curricular books,	• Ahmed A	Ali Ismail, Genei	ral Geography		
			Kutub for P	rinting and Pub	olishing, Unive		
			Baghdad, 1	996.			
Main refe	erences (sou	rces)	The methodol	ogical book (Ge	neral Geograp		
			written by Mu	hammad Sobhi,	2000		
Recomme (scientific	ended books e journal, rej	s and references ports	Jawda Hassanein, General Geography, Arab Renaissance House, University of Baghdad, 2000 AD.				
Electroni	c Reference	s, Websites	All websites f related to geo	or subject voca graphy	abulary		

Course Description Form

	1. Course name
	Population Geography
	2. Course code
	GPG 217
	3. Semester/Year
	2024- 2025
	4. Date this description was prepared
	/ /2024
	5. Available forms of attendance
	In-person lectures
6. Number of study	hours (total) / Number of units (total)
	60Hour / 4 units
7. Name of the course supervisor ((if more than one name is mentioned)
the name: Prof. Dr. Adel	Taha ShalalEmail: <u>adel.taha@tu.edu.iq</u>
	8. Course objectives
A-Introducing students to the methods of using characteristics, means, rates, and geographical research on human phenomena and those specific to population geography in order to develop future plans for them. for-Developing students' ability to	Subject objectives

		understand the elements and characteristics of the population C-Developing students' ability and training them to use statistical methods and means and linking them to statistical programs				
arning strategies	9. Teaching and le					
Strategy		-In-person lectures -Using brainstorming to develop skills. - Discussion method in daily lectureInside the classroom.				
Course Structure	10.					
Watch The es week	Required learning outcomes	Name of the unit or topic	Learning method	Evaluatio n method		
2 1	Introduction to Demography	Definition of demography	In-person lectures	In- person tests		
2 2	demography concept	Understand the concept of demography	In-person lectures	In- person tests		
2 3	The importance of population studies	Understand the importance of population studies	In-person lectures	In- person tests		
2 4	Knowing the sources of demographic data	Get to knowPopulation Data Sources	In-person lectures	In- person tests		
2 5	Population growth theories	Learn about population growth theories	In-person lectures	In- person tests		
2 7	Population characteristics and composition	Study of population characteristics	In-person lectures	In- person tests		
2 8	Age and gender structure of the population	Identify the types of population structure	In-person lectures	In- person tests		

		Knowing the	Environmental		
In-	In-nerson	population	distribution of		
person	lectures	distribution	population	2	9
tests		between urban			
		and rural areas			
In-	In-nerson	Study of the	optimal		
person	lectures	optimal population	population size	2	10
tests	icciurcs	size			
In-		Knowing the world	world population		
nerson	In-person	population growth	growth	2	11
tests	lectures	and its future		2	
		effects			
In-		Learn about the	population		
person	In-person	importance of the	pyramid	2	12
tests	lectures	population		-	12
		pyramid			
		Understand the	Geographical		
In-	In-person lectures	importance of the	distribution of		
person		geographical	population	2	13
tests		distribution of the			
		world's population			
		knowledgeFactors	Factors affecting		
In-	In-person	affecting	population		
person	lectures	population	distribution and	2	14
tests		distribution and	density		
		density			
In-		Study of the	Elements of		
person	In-person	elements of	population	2	15
tests	lectures	population	change	_	
		changes			
In-		The importance of	Population		
person	In-person	population fertility	fertility		
tests	lectures	and its relationship		2	16
		to population			
		growth			
In-	In-person		Spring break	_	
person	lectures		trom 14/1/2024	2	17
tests			to 25/1/2024		
In-	In-person	Study of mortality	Deaths	2	18

person	lectures	and its effect on			
tests		population size			
		variation			
In-	In-nerson	Study of migration	Immigration		
person	lectures	and its impact on		2	19
tests		population growth			
In-	In-nerson	Knowing the types	Population		
person	lectures	of measurements	fertility rate	2	20
tests		and their types			
In-	In-nerson	Knowing the raw	Birth scale		
person	lectures	birth parameters		2	21
tests					
In-	In-person	Knowing the raw	Migration Scale		
person	lectures	migration metrics		2	22
tests					
In-	In-person	Study of marriage	Marriage		
person	lectures and its impact on		2	23	
tests	10010100	population fertility			
In-	In-person	World Population	Population and		
person	lectures	and Development	Development	2	24
tests		Study			
ln-		The importance of	Population and		
person	In-person	quail and their	its relationship to	2	25
tests	lectures	relationship to	food	-	
		food			
In-	In-person	Knowledge of	Development		
person	lectures	development and	and fertility	2	26
tests	10010100	fertility			
		Study of	Education and		
In-	In-person	development and	Development		
person	lectures	its importance and		2	27
tests	10010100	education in			
		society			
In-		Study of	Development		
nerson	In-person	development and	and health	2	28
tests	lectures	health services in	services	<i>L</i>	20
		the community			
In-	In-person	The impact of	Economic	2	29
person	lectures	development on	development and	_	20

tests		economic	progress		
		development in			
		society			
		Knowing	Population		
In-	In norson	population policies	policies		
person	locturos	and their		2	30
tests	leciules	importance in			
		society			

	11. Course Evaluation				
50 points for annual pursuit, 25	50 points for annual pursuit, 25 points for each semester, divided as follows:				
	20 marks for the written exam				
5 marks per day	, distributed between daily exams or reports.				
	50 marks final exam				
	12. Learning and teaching resources				
-Fathi Muhammad Abu Ayana, Population Geography, 5th ed., Dar Al Nahda Al Arabiya for Printing and Publishing, Beirut, 200, p. 229.	Required textbooks (methodology if any)				
- Taha Hammadi Al-Hadith, The Methodological Book of Population Geography.	Main References (Sources)				
All modern population sources,	Recommended supporting books and				
including Arab and foreign, in the field of population science and geography.	references (scientific journals, reports)				
All related websitesIt is concerned with the geography of population.	Electronic references, websites				

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Assist. Lect. Shahad Khaled Hamed

Date: Signature:

Approval of the Dean

Course Description Form

1. Course Name: Rural geography The second phase

2. Course Code: **229GRG**

3. Semester / Year: 2024-2025

4. Description Preparation Date 2024/9/18

5. Available Attendance Forms: **In-person lectures**

6. Number of Credit Hours (Total) / Number of Units (Total): 60 hours | 4 units

7. Course administrator's name (mention all, if more than one name)Name: M.M. Israa Mazen HamidEmail :esraa.hamid326@tu.edu.iq

8. Course Objectives

Course Objectives

*The student gets to know the concept of rural geography and its*Enhancing students' ability to understand rural geography by revealing the most important

problems and knowing how to address them • *Enhancing students' ability to understand the differences between rural geography and other branches of geography and							
the extent of their connection.							
9. Tea	ching a	nd Learning Strategie	es				
Strategy			- In-person lect	ures.			
	-Asking questions during lectures						
	-	-Using bra	nod in the daily i	ecture in the c evelop abilities	and skills)		
10. Cours	se Stru	cture			<u> </u>		
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation		
			name	method			
		Outcomes			method		
September 3	2	Concept of the term rura	Chapter One: The concept of rural geography	In-person lectures	In-person tests		
September 4	2	The beginnings of interest in the countryside	Basic concerns at the beginning of rural geography	In-person lectures	In-person tests		
October 1	2	Identify the most important reasons that gave rural studies such effective importance	The reasons that gave effective importance to rural studies	In-person lectures	In-person tests		
October2	2	Areas of development of interest in rural geography	How interest in rural geography developed	In-person lectures	In-person tests		

October3	2	The concept of rural geography	Rural geography objectives	In-person lectures	In-person tests
October 4	2	Studying the relationship between rural geography and its relationship with other branches of geography	The most important basic relationships between rural geography and other branches The most important basic relationships between rural geography and other branches	In-person lectures	In-person tests
November 1	2	The nature and characteristics of rural society	The reasons that gave effective importance to rural studies	In-person lectures	\ In-person tests
November 2	2	Knowing the most important foundations for classifying rural society	Chapter Two Basis for classifying rural society	In-person lectures	In-person tests
November 3	2	Forms of rural communities	Problems of rural society	In-person lectures	In-person tests
November 4	2	Knowing the most important factors affecting rural settlements and their distribution	Knowing the most important factors affecting rural settlements and their distribution	In-person lectures	In-person lectures
December 1	2	Environmental and geographical distribution of rural settlements	Chapter Three Environmental distribution of the countryside	In-person lectures	In-person lectures In- person lectures
December 2	2	Morphology of rural settlement	Chapter Four The phenology of rural settlements and the factors affecting them	In-person lectures	In-person lectures In- person lectures

December 3	2	Morphological elements of a rural settlement	Morphology of the rural dwelling	In-person lectures	In-person lectures In- person lectures
December 4	2	The impact of urban centers on rural areas and their relationship	Five Chapter The impact of urban centers on the countryside	In-person lectures	In-person lectures In- person lectures
January 1	2	Regional relations between the city and the countryside	Models of regional relations between the city and the countryside	In-person lectures	lectures In- person lectures
		Spring Break f	from 1/18/2025to 1/2	5/2025	
January 4	2	The foundations of distinction between the village and the city	Chapter Six Distinction between village and city residents	In-person lectures	lectures In- person lectures
February 1	2	Identify the economic basis of cities	Chapter Seven The economic basis of cities	In-person lectures	lectures In- person lectures
February 2	2	Get to know the city's residents	Chapter Eight the citizens	In-person lectures	lectures In- person lectures
February 3	2	Identify the characteristics and composition of the city's population	Characteristics and composition of the city's population	In-person lectures	lectures In- person lectures
February 4	2	Uses and purposes of rural settlements	Chapter Nine Types of uses for rural settlements	In-person lectures	lectures In- person lectures
March 1	2	Identify the problems of rural society and their causes	Chapter Ten Rural problems and their types	In-person lectures	lectures In- person lectures

March 2	2	Identifying the morphology of the Arab Islamic city	Chapter Eleven Morphology of the Arab-Islamic city	In-person lectures	lectures In- person lectures
March 3	2	Getting to know the city of Haya and the stages of its development	Learn about the most important industries that the city of Hit is famous fo	In-person lectures	lectures In- person lectures
March 4	2	Getting to know a modern city and the stages of its development	Stages of a modern city and its development	In-person lectures	lectures In- person lectures
April 1	2	Chapter Twelve The regional relationship of the city of Hit	Twelve The regional relationship of the city of Hit	In-person lectures	lectures In- person lectures
April 2	2	The regional relationship between the city and its countryside	relationship between the city and its countryside	In-person lectures	lectures In- person lectures
April 3	2	Study the spatial relationship and measure the degree of its effectiveness	Knowing the types of spatial relationships	In-person lectures	lectures In- person lectures
April 4	2	itRecognizing the importance of economic relations between the countryside and the city	The importance of the industrial relationship and its connection between the countryside and the city	In-person lectures	lectures In- person lectures
May 1	2	Population relations and their importance	Population migration towards other regions	In-person lectures	lectures In- person lectures
May 2	2			Method of solving problems	

r					r			
May 3,4				exams final				
11. Course	11. Course Evaluation							
50 marks	s for th	ne annual endeav	or, 25 marks for e	ach semester,	divided as			
			follows:					
	20 marks for the written exam							
Į	5 mark	ks per day, distrib	uted among daily	exams or repoi	rts			
50 marks fo	or end	-of-year exam						
12. Learni	ng an	d Teaching Sourc	es					
Required t	textboc	oks (curricular book	s, - All books	s prescribed for	the subject,			
	modern ones							
Main refer	Main references (sources)-The methodological book (Rural Geogra							
written by Mazen Abdul Rahman Al-J					nan Al-Hiti, Co			
			Education for t	Education for the Human Sciences, Anbar				
			University, Am	ıman, 1st editio	n, 2007			
Recomme	nded b	ooks and references	s 1-Abdul Razza	q Abbas Husseir	, Geography			
(scientific	journa	l, reports	of U	rban Affairs, 200	06.			
			2- Salah Da	oud, The Pheno	menon of			
			Overtaking ir	n Cities, Al-Ustad	l Magazine,			
			Issue 1, Colle	ge of Education,	Ibn Rushd,			
				2007.				
I recommend adopting modern sources, including the book Rural Geography, as well as all academic studies and published scientific research related to the vocabulary of the subject.								
Electronic	Refere	ences, Websites	[- All studies related to rura	oublished on w I geography	ebsites			

Course Description Form

	1. Course name
	Seas and oceans
	2. Course code
	G PG445
	3. Semester/Year
	2024 -2025
	4. Date this description was prepared
Theo	pretical and practical in-person lectures
6. Number of study	y hours (total) / Number of units (total)
	60Hour / 4 units
7. Name of the course supervisor	r (if more than one name is mentioned)
the name: Dr. Ali Abdullah Musa Khal	af Al-JubouriEmail Ali.Mousa@tu.edu.iq
	8. Course objectives
numbers Researchers Specialists in area material Seas and oceans. Contribution in to treat Problems that facing - Students in to learn material Seas and oceans And guide them Orientation Professional Correct. practice on Use network Information - International in Access to the reviewer And information Required.	Subject objectives 2 3

Ability on Dealing with Indexes Libraries And indexes Bibliography To get on the reviewer And sources Required.	
	9. Teaching and learning strategies
Using brainstorming to develop skills1 Use collective thinking to produce -2 correct information. Rise Students Prepared by The lecture -3 And display it on their colleagues then to open door Discussion. Assignment The student Using network -4 Information In a way Positive verification Interest From it. training The student on Usage Correct For references.	Strategy
	10 Course Chrustian

10. Course Structure

Evaluation	Learning	Required learning	Watches	The
method	method	outcomes		week
Tests	In-person lectures	Get to know the students	3	1
Tests	In-person lectures	Introducing students to the importance of oceans and seas Grading and testing system	3	2
In-person tests	In-person lectures And practical	Learn about the concept of oceanography and its development, and what are the sources of information in on- site investigation.	3	3
Homework	Lectures	The concept of geography of seas and oceans	3	4
Homework	Lectures		3	5

		Theories of the origin of		
		seas and oceans		
Homework	Lectures	The theory of contraction and asteroids	3	6
Homework	Lectures	Moon drift theory - continental drift theory	3	7
Homework	Lectures	theorytectonic plates	3	8
Homework	Lectures	Theory Aocean floor spreading	3	9
Homework	Lectures	Spatial distribution of seas	3	10
Homework	Lectures	Spatial distribution of oceans	3	11
Homework	Lectures	Spatial distribution of bays	3	12
Homework	Lectures	Spatial distribution of straits	3	13
Homework	Lectures	Water movement in the seas	3	14
Homework	Lectures	Water movement in the oceans	3	15
Homework	Lectures	Waves, tides and ocean currents	3	16
	1	spring break		
			3	
Homework	Lectures	Classification of seas and oceans based on salinity	3	17
Homework	Lectures	Classification of seas and oceans based on geographical location	3	18
Homework	Lectures	The importance and types of modern seas	3	19
Homework	Lectures	The importance of seas	3	20

				and oceans and the vastness of their water cover		
Homew	ork	Lec	tures	Properties Physical / Temperature / Density / Color /	3	21
Homew	ork	Lec	tures	Chemical Properties / Water / Seas / Oceans	3	22
Homew	ork	Lec	tures	The importance of seas and oceans in the movement of human races	3	23
Homew	ork	Lec	tures	Ocean waves/currents	3	24
Homew	ork	Lec	tures	Coasts / Coast Classification	3	25
Homew	ork	Lec	tures	Positive topographic phenomena of sea and ocean floors	3	26
Homew	ork	Lec	tures	Negative topographic phenomena of sea and ocean floors	3	27
Homew	ork	Lec	tures	Coastal geomorphological phenomena	3	28
				Final exams		29
1					<u> </u>	29

11. Course Evaluation

50 points for annual pursuit, 25 points for each semester, divided as follows:

20 marks for the written exam

5 marks per day, distributed between daily exams or reports.

50 marks final exam

12. Learning and teaching resources

Mahdi Al-Sahaf. Seas and -1 Oceans Quality Hassanein Quality-Seas and oceans	Main References (Sources)
All sources related to seas and -1 oceans and foreign research in this field	Recommended supporting books and references)
International scientific sites 1- such as:Research GateTo be able to download reliable international scientific research on the subject of seas and oceans	Electronic references, websites

Course Description Form

1. Course name	
Geomorphology is the science of the Earth's s	surface shapes.
2. Course code	
109GGe	
3. Semester/Year	
2024 -2025	
4. Date this description was prepared	
Theoretical and practical in-person lectures	
6. Number of study hours (total) / Number of	units (total)
60Hour / 4 units	
7. Name of the course supervisor (if more tha	n one name is mentioned)
the name: Asst. Prof. Dr. Raja Khalil Ahm	ed Al-JubouriEmail
Raja.Khalil@tu.edu.iq	
8. Course objectives	
 1- Enabling students to recognize the relationship between geomorphology, its history and development. 2- Enabling students to know the impact of geomorphological factors and processes on the Earth's topography and its formation. 3- Introducing the student to the importance of the Earth's surface shapes 	Subject objectives

and the possibility of investing in and applying them. 4- Enabling students to distinguish between processes. Geomorphology Internal and external What are its effects?	
9. Teaching and learning strategies	
 Using brainstorming to develop skills. Discussion method in daily lecture Inside 	Strategy
the classroom - using scientific videos and	
illustrations to explain the most important	
geomorphological phenomena.	
-Field work through field visits and	
laboratory	

10. Course Structure

Evaluatio n method	Learning method	Name of the unit or topic	Required learning outcomes	Watch es	The week
Tests	In-person lectures	Student recognition	Get to know the students	3	1
Tests	In-person lectures	Vocabulary , most important sources, definition of the examinatio n system and distribution of grades	Introducing students to the most important scientific sources in the field of geomorphology Grading and testing system	3	2
In-person tests	In-person lectures And practical	The concept and definition of geomorpho logy, its topics and methodolo	Understanding the concept of geomorphology	3	3

		ду			
In-person tests	In-person lecturesAnd practical	The origin of geomorpho logy, its importance and its most prominent scientists Its relationshi p with other sciences	Learn about the relationship between geometry and other sciences	3	4
In-person tests	In-person lecturesAnd practical	History of the developme nt of geomorpho logy	Learn about the history of your development in the science of gemmology. The most important fields. The ten basic concepts of the science of gemmology.	3	5
In-person tests	In-person lecturesAnd practical	The universe and the solar system	Learn about the concept of the universe and the solar system	3	6
In-person tests	In-person lecturesAnd practical	Earth and its components	Learn about the Earth and its composition	3	7
In-person tests	In-person lecturesAnd practical	Landforms, rocks and their types	Learn about landforms and their types Rocks, their composition, and their types	3	8
In-person tests	In-person lecturesAnd work	internal processes of the earth	Identify the types of internal ground operations	3	9
In-person	In-person		Understanding	3	10

tests	lecturesAnd work	Earthquake s and volcanoes, their concept, types and	the concept of earthquakes, volcanoes, their causes, types and distribution				
In-person tests	In-person lectures And work	causes Weathering , soil and rock fragment movement	Learn about weathering And the movement of crumbs	3	12		
In-person tests	In-person lecturesAnd work	Winds and deserts The role of drought and wind in nature	Understand the concept of winds, deserts and their problems	3	13		
In-person tests	In-person lecturesAnd work	Desertificat ion phenomeno n and methods of sand dune stabilizatio n	Identifying and treating desertification	3	14		
In-person tests	In-person lecturesAnd work	Running water and its work	Learn about running water and its operation.	3	15		
In-person tests	In-person lecturesAnd work	Groundwat er and its work	Understand the concept of groundwater and its function	3	16		
spring break 2025/3/1-2025/3/8							
In-person tests	In-person lecturesAnd work	Landforms resulting from groundwate r	Identify the most important landforms of groundwater	3	17		
In-person tests	In-person lecturesAnd practical	Seas and coasts	Understand the concept of coasts and seas	3	18		
In-person tests	In-person lecturesAnd practical	Geomorphi c structural work of the seas	Get to knowAFor the construction work of the seas	3	19		
In-person tests	In-person lecturesAnd practical	The structural work of marine organisms and coral	Learn about construction work	3	20		

				1	
		reefs			
In-person tests	In-person lecturesAnd practical	lce and refrigerator s	Understand the concept of ice and refrigerators	3	21
In-person tests	In-person lectures And practical	Glacial geomorpho logical forms	Identify the most important forms of glaciers	3	22
In-person tests	In-person lectures And practical	Different geomorpho logical environme nts	Identify the most important geomorphologica I environments	3	23
In-person tests	In-person lectures And practical	Geomorpho logical regions of the world	Learn about the geomorphologica I regions of the world	3	24
In-person tests	In-person lecturesAnd practical	Structural geomorpho logy	Learn about morphotectonics	3	25
In-person tests	In-person lecturesAnd practical	Applied Geophysic s	Learn about the most important applied projects	3	26
In-person tests	In-person lectures And practical	In the field of mining, oil and groundwate r	Learn about the importance of geothermal energy in mining, oil and groundwater.	3	27
In-person tests	In-person lectures And practical	The role of geomorpho logy in the constructio n of roads, irrigation, dams and reservoirs	Get to knowThe relationship betweenGemor and road projects, irrigation, dams and reservoirs	3	28
In-person tests	In-person lectures And practical	The role of geomorpho logy in improving and refining rivers	Understand the relationship between geography and river drainage	3	29
In-person tests	In-person lectures And practical	The role of geomorpho logy in military movements , natural resources and the	Recognizing the importance of geoscience in the military aspect and the search for, exploitation of, and preservation of	3	30
		environme nt	natural resources.		
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Testsimm anence	Lectures theimmanenc e And practical	Geomorpho logy of reservoirs	Learn about reservoir geomorphology and its importance	3	31
			Final exams		

11. Course Evaluation	
50 points for annual pursuit, 25 points	for each semester, divided as follows:
20 marks for the written exam	
5 marks for the daily course, distribute	d between daily exams, practical work, or
reports.	
50 marks final exam	
12. Learning and teaching resources	
Primary source	Main References (Sources)
Geomorphology, Prof. Adnan Al-Naqqash and Prof. Mahdi Al-Sahaf	
Hassan Sayed Ahmed Abu El-EneinN (Principles of Geomorphology). /Secondary source	Recommended supporting books and references)
 Saad Jassim Mohammed, Yassin Dahi Awad, Fundamentals of Geomorphology Secondary sourceY 	
https://books4arab.me/%D9%83%D8 %AA%D8%A7%D8%A8- %D8%A7%D9%84%D8%AC%D9%8A %D9%88%D9%85% D9%88%D8%B1%D9%81%D9%88%D 9	Electronic references, websites

%84%D9%88%D8%AC%D9%	68A%D8	
%A7-%D8%B9%D9%84%D9%85-		
%D8%A3%D8%B4%D9%83%	6D8%A7	
%D9	%84-	
%D8%B3%D8%B7%D8%AD	-	
%D8%A7%D9%84/		

1. Course name	
Environment and pollution	
2. Course code	
G ISO 452	
3. Semester/Year	
2024- 2025	
4. Date this description was prepared	
18 /9/2024	
5. Available forms of attendance	
In-person lectures	
6. Number of study hours (total) / Number of unit	s (total)
60hour /4Units	
7. Name of the course supervisor (if more than	one name is mentioned)
the name: Dr. Rowaida Fouad Abdullah	
Email: <u>rfouad@tu.edu.iq</u>	
8. Course objectives	
1-TDocument CapabilityStudentsin Environment and pollution.	Subject objectives
2- Introducing the student to the environment and	
3- Introducing the student to some of the	
methods of environmental pollution and drawing	
4- Increase the student's ability to develop	

solutions to environmental problems. 5- Developing the student's abilities in spatial analysis methods in studying the environment and pollution.						
9. Teaching and learning strategies						
 Using brainstorming to develop skills. Discussion method in daily lectureInside the classroom. 			Strategy			
10. Course	Structure					
Evaluatio	Learning	Name of	Required	learning	Watch	The week
n method	method	the unit or topic	outcome	S	es	
In-person tests	In-person lectures	Definition of ecology	Understand the concept of ecology		2	September3
In-person tests	In-person lectures	Environme nt Sections	Learn about the environmental departments		2	September 4
In-person tests	In-person lectures	Biotic elements	Get to knowBiotic elements		2	October1
In-person tests	In-person lectures	Abiotic environme nt elements	Get to knowAbiotic environment elements		2	October2
In-person tests	In-person lectures	human systems or human environme nt	Get to knowhuman systems or human environment		2	October3
In-person tests	In-person lectures	Systemsna turalor the environme ntNatural	Get to knowSystemsnat uralor the environmentnatur alAnd		2	October4
In-person tests	In-person lectures	The relationshi p between geography and ecology	Get to knowThe relationship between geography and ecology		2	November1
In-person tests	In-person lectures	ecosystem balance	Get to knoweco balance	system	2	November2
In-person tests	In-person lectures	Eco- Schools	Get to kn Schools	owEco-	2	November3
In-person	In-person	Man in the	Get to kn	owMan	2	November4

tests	lectures	face of	in the face of		
		environme	environmental		
		ntal	challenges		
		challenges	J		
		Environme	Get to	2	Docombor1
In-nerson	In-person	ntal	knowEnvironment	2	December 1
tests	lectures	problem	al problem		
		concept	concept		
		Causes of	Get to	2	December 2
In-person	In-person	environme	knowCauses of		
tests	lectures	ntal	environmental		
		problems	problems		
		Classificati	Get to	2	December3
In norson	In norson	on of	knowClassificatio		
toete	In-person	environme	n of		
16313	iectures	ntal	environmental		
		problems	problems		
In-nerson	In-person	Pollution	Get to	2	December4
tests	lectures	concept	knowPollution		
			concept		
Spring bre	<u>ak from5/1/20</u>	25 to18/1/2	025		
In-nerson	In-nerson	A brief	Get to	2	January3
tests	lectures	history of	knowHistory of		
10313	lectures	pollution	pollution		
In-person	In-person	Spread of	Get to	2	January4
tests	lectures	pollution	knowSpread of		
			pollution	2	
		Pollution	Get to	2	February1
in-person	In-person	Dovelopme	Control		
16313	lectures	nte	Developments		
		Sources of	Get to	2	Echmicmi?
In-person	In-person	nollution	knowSources of	2	redituaryz
tests	lectures	ponution	pollution		
			Get to	2	February 3
In-person	In-person	Pollution	knowPollution		rebruary 5
tests	lectures	sections	sections		
		01	Get to	2	February 4
In-person	In-person	Stages of	knowStages of		r obraary r
tests	lectures	pollution	pollution		
In-nerson	In-nerson	Types of	Get to knowTypes	2	March 1
tests	lectures	pollutants	of pollutants	-	
		Environme		2	March 2
		ntal	Get to		
		Protection	knowEnvironment		
In-person	In-person	in United	al Protection		
tests	lectures	Nations	Laws in United		
		Internation	International Law		
		al Law			
In-person	In-person	The most	Get to knowThe	2	March 3
tests	lectures	important	most important		

		internation	international		
			organizations for		
		ai	onvironmontal		
		no for	protoction		
		ns ior	protection		
		environnie			
		nrotaction			
				2	
		All		2	March 4
		ponution	Get to knowAir		
In-person	In-person	and	pollution problem		
tests	lectures	sources of	and sources of air		
		air	pollution		
		nollution			
-	 		Get to	2	April1
In-person	In-person	Treating air	knowTreating air	-	
tests	lectures	pollution	pollution		
		Water		2	April 2
		pollutionan	Get to knowwater		P =
In-person	In-person	dSources	pollutionandSour		
tests	lectures	of water	ces of water		
		pollution	pollution		
In porson	In porson	Water	Get to knowWater	2	April3
toete	locturos	pollution	pollution		•
16313	lectures	treatment	treatment		
		Desertificat		2	April4
		ion	Get to		-
In-nerson	In-nerson	problem,	knowDesertificati		
tests	lectures	its degrees	on problem, its		
		and	degrees and		
		manifestati	manifestations		
		ons	-		
.	.	Factors	_Get to	2	Mays 1
In-person	In-person	affecting	knowFactors		
tests	lectures	desertificat	affecting		
		ion	desertification		-
lestsimm	Lecturesthei	Treating	Get to	2	Mays 2
anence	mmanence	desertificatio	knowTreating		
		n	desertification		
			Final exams		Mays3,4

50 points for annual pursuit, 25 points for each semester, divided as follows:

20 marks for the written exam

5 marks per day, distributed between daily exams or reports.

50 marks final exam	
-Environmental Science and Pollution. Prof. Dr. Hussein Al-Saadi. - Basics of Environmental Science. Prof. Ibrahim Abdel Rahman.	Required textbooks (methodology if any)
 Man, the environment and contemporary environmental problems Dr. Essam Abbas Babiker Karar Environmental Geography and Pollution Dr. Abbas Zgheir Mohsen Al- Mariani 	Main References (Sources)
 Watching TV programmes and video reports about the environment and pollution. Identifying the studies and research conducted by graduate students and lecturers in the field of environment and pollution. 	Recommended supporting books and references (scientific journals, reports)
nothing	Electronic references, websites

1. Course name
Urban Geography
2. Course code
GMHIAH 337
3. Semester/Year
2024- 2025
4. Date this description was prepared
18/9 /2024
5. Available forms of attendance
In-person lectures
6. Number of study hours (total) / Number of units (total)
60hour /4Units
7. Name of the course supervisor (if more than one name is mentioned)
the name: Dr. Rowaida Fouad Abdullah
Email: <u>rfouad@tu.edu.iq</u>
8. Course objectives
A- Developing students' ability to understand the characteristics of urban problems, their causes and solutions within a real-world environment. B- Providing students with the knowledge and ideas to identify the most important sources of obtaining geographical data on cities, including data available from the Ministry of Housing and

the Central books and r C- Enabling rules of citie developing t	Agency for State eferences relat students to un s and activating them on the gro	tistics, in addition ed to the subject. derstand the basi g their role in pund.				
9. Teaching	g and learning	strategies				
- Using brainstorming to develop skills. - Discussion method in daily lectureInside						
the classro	om.					
10. Course	Structure					
Evaluatio	Learning	Name of the	Req	uired learning	Watch	The week
n method	method	unit or topic	outo	comes	es	
In-person tests	In-person lectures	Chapter One / Urban Geography, Its Importance	Learn about the concept of urban geography and its importance		2	September3
In-person tests	In-person lectures	GoalsUrban Geographyan d methods of searching in it	Get to knowGoalsUrban Geography, andknowledgeWa ys to search it		2	September 4
In-person tests	In-person lectures	Chapter Two / The City and Urban Development, the Foundations of Distinguishin g the City from the Village	Get and deve know basi disti city villa	to knowCity urban elopment,And wledgeThe s for inguishing the from the ge	2	October1
In-person tests	In-person lectures	urbanization, urbanism	Und my cone tion	erstanding ceptsUrbaniza And urban	2	October2
In-person tests	In-person lectures	Location and position	Und my cone onA	erstanding ceptsthelocati ndLocation	2	October3

			and the difference		
			between them		
In-person tests	In-person lectures	Chapter Three / The Internal Structure of the City and Its Theories, The Theory of Concentric Circles	Get to knowThe internal structure of the city and its theories,andconc entric circle theory	2	October4
In-person tests	In-person lectures	concentric circle theory	Get to knowconcentric circle theory	2	November1
In-person tests	In-person lectures	Sector theory, multiple nuclei theory	Get to knowsector theoryandmultiple nuclei theory	2	November2
In-person tests	In-person lectures	Controls of the internal structure of cities and the factors affecting them	Get to knowControls of the internal structure of cities and the factors affecting them	2	November3
In-person tests	In-person lectures	Chapter Four / City Land Uses	Get to knowCity land uses	2	November4
In-person tests	In-person lectures	Commercial zoning methods, other commercial use patterns	Get to knowMethods of determining the commercial area And knowledgeOther commercial uses	2	December1
In-person tests	In-person lectures	Industrial job	Get to knowIndustrial job	2	December 2
In-person tests	In-person lectures	Residential function	Get to knowResidential function	2	December3
In-person tests	In-person lectures	Recreational function	Get to knowRecreational function	2	December4
Spring bre	ak from5/1/2	2025 to18/1/20)25		
In-person tests	In-person lectures	Chapter Five / Classification of Cities	Get to knowCities classification	2	January3

In-person tests	In-person	Job classification	Get to knowJob	2	January4
	In noreon	Chapter 6 /	Got to knowCity	2	
m-person	in-person		Get to knowcity	2	February 1
tests	lectures	City Sizes	SIZES		
		Chapter	Get to knowThe	2	February2
In noroon	In nereen	Seven / The	economic basis		5
m-person	in-person	Economic	of cities		
tests	lectures	Basis of			
		Cities			
		Chaptor Fight	Got to knowCity	2	Fahrmann 2
In-person	In-person		dwallers	2	repruary 3
tests	lectures	/ The City	awellers		
		People			
		Characteristi	Get to	2	February 4
		cs and	knowCharacteristi		
In-person	In-person	composition	cs and		
tests	lectures	of the city's	composition of		
		population	the city's		
			population		
		Chapter Nine	Get to	2	March 1
In-person	In-person	/ Central	knowcentral place		
tests	lectures	Places	theory		
		Theory			
		Chapter 10/	Get to knowCity	2	March 2
		City	nrohlome	2	March Z
In norson	In parson	nrohlome	pollution urban		
in-person		problems,	polition, urban		
tests	lectures	pollution,	water supply		
		water supply			
		In cities		-	
		Chapter	Get to knowCity	2	March 3
In-person	In-person	Eleven /	Morphology		
tests	lectures	Morphology			
		of the City	-		
		Morphologica	Get to	2	March 4
In-person	In-person	I stages of	knowMorphologic		
tests	lectures	the Arab-	al stages of the		
		Islamic city	Arab-Islamic city		
		Baghdad city	Get to	2	April1
In-person	In-person	and its	knowBaghdad		
tests	lectures	stages of	city and its stages		
		development	of development		
		Jeddah city	Get to	2	April 2
In-person	In-person	and its	knowJeddah city		F
tests	lectures	stages of	and its stages of		
		development	development		
		Chapter	Get to knowThe	2	April3
		Twelve / The	relationship		P0
		Relationship	between the citv		
in-person	in-person	between the	and its region		
tests	iectures	Region of			
		Medina and			
		its Reaion			
In-person	In-person	The regional	Get to knowThe	2	Anril4
tests	lectures	relationship	regional		

		between the city and the countryside	relationship between the city and the countryside		
In-person tests	In-person lectures	suburbs and urban outskirts	Get to knowsuburbs and urban outskirts	2	Mays1
Testsimm anence	Lecturesthe immanence	Reasons for the emergence of suburbs	Get to knowReasons for the emergence of suburbs	2	Mays2
			Final exams		Mays3,4

50 points for annual pursuit, 25 points for each semester, divided as follows:

20 marks for the written exam

5 marks per day, distributed between daily exams or reports.

50 marks final exam

12. Learning an	d teaching resources
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-Sabri Faris Al-Hiti, Saleh Falih Hassan, Geography of Cities, Dar Al- Kutub for Printing and Publishing, University of Mosul, 2000.	Required textbooks (methodology if any)
- The textbook (Urban Geography) written by Prof. Dr. Bashir Ibrahim Al- Tayef and Prof. Dr. Salah Daoud Salman, 2017	Main References (Sources)
 Abdul Razzaq Abbas Hussein, Geography of Cities, 2006. Haider Abdul Razzaq Kamouna, Urban Planning, 1st ed., General Cultural Affairs House, Baghdad, 2007. Salah Daoud, The Phenomenon of Encroachment in Cities, AI-Ustadh Magazine, Issue 1, Ibn Rushd College of Education, 2007. 	Recommended supporting books and references (scientific journals, reports)
https://apps.who.int/iris/bitstream/handl e/10665/329429/9789240006119-ara.pdf	Electronic references, websites

1. Course name	
Geography of services	
2. Course code	
GSG 456	
3. Semester/Year	
2024- 2025	
4. Date this description was prepared	
18 /9/2024	
5. Available forms of attendance	
In-person lectures	
6. Number of study hours (total) / Number of	units (total)
60hour /4Units	
7. Name of the course supervisor (if more t	than one name is mentioned)
the name: Dr. Rowaida Fouad Abdullah	Email: <u>rfouad@tu.edu.iq</u>
8. Course objectives	
 Identifying the importance of the service sector and its relationship to geography by students and revealing the basic justifications for studying it. Preparing scientific cadres specialized in studying this sector, understanding its problems, and qualifying them to carry out this scientific role. 	Subject objectives

 3- Developing students' abilities and enhancing their scientific capabilities to delve into the study of this vital sector to achieve the general benefit of the complex. 4- Urging researchers and academics to pay attention to this scientific branch and give it more importance in study and research 						
9. Teachin	g and learr	ning strategies				
- Using bra - Discussion	ainstorming on method	y to develop skills. in daily lecturelnsi	de	Strategy		
the classro	oom.					
10. Course	e Structure					
Evaluati	Learning	Name of the	Requ	ired learning	Watc	The week
on method	method	unit or topic	outco	outcomes		
In- person tests	In- person lectures	Geography of Services - Concept and Importance	Understand the concept of service geography and its importance		2	September 3
In- person tests	In- person lectures	Geography and Services Study	Learr geog servi	Learn about geography and study services		September4
In- person tests	In- person lectures	Services and city geography	Unde relati servio geog	Understand the relationship between services and urban geography		October1
In- person tests	In- person lectures	Evolution of the concept of services	Learr devel conce	Learn about the development of the concept of services		October2
In- person tests	In- person lectures	The importance of services in cities and urban centers	Reco impo servie urbar	Recognizing the importance of services in cities and urban centers		October3
In- person tests	In- person lectures	The nature of urban services in cities	Identify the nature of urban services in cities		2	October4
In- person tests	In- person lectures	Services classification	Learr class servi	n about the ification of ces	2	November 1
In- person	In- person	Localization of services	ldent locali	ifying the ization of	2	November 2

tests	lectures		services		
In- person tests	In- person lectures	Service planning	Learn about service planning	2	November 3
In- person tests	In- person lectures	Spatial levels of service planning	Identifying the spatial levels of service planning	2	November 4
In- person tests	In- person lectures	Service Planning Methodology	Learn about service planning methodology	2	December1
In- person tests	In- person lectures	Service planning stages	Learn about the stages of service planning	2	December 2
In- person tests	In- person lectures	Problems hindering service planning	Identifying problems hindering service planning	2	December3
In- person tests	In- person lectures	Service characteristics and evaluation	Identify and evaluate service characteristics	2	December4
Spring br	eak from5/	/1/2025 to18/1/2	2025		
In- person tests	In- person lectures	The importance of characteristics in service signature	Understand the importance of attributes in service signatures	2	January3
In- person tests	In- person lectures	Service localization patterns and components	Identifying service localization patterns and their components	2	January4
In- person tests	In- person lectures	Earth systems (natural) and their relationship to the city and service provision	Identifying the Earth's (natural) systems and their relationship to the city and the provision of services	2	February1
In- person tests	In- person lectures	Human systems and their relationship to the city and service provision	Identify human systems and their relationship to the city and service provision.	2	February2
In- person tests	In- person lectures	Basic services map (concept - objectives - importance)	Learn about the basic services map (concept - objectives - importance)	2	February 3
In- person tests	In- person lectures	Service Planning Standards	Get to knowService Planning Standards	2	February 4
In-	In-	Basic	Get to knowBasic	2	March 1

person tests	person lectures	foundations for setting urban planning standards	foundations for setting urban planning standards		
In- person tests	In- person lectures	Conditions for preparing urban planning standards	Learn about the conditions for preparing urban planning standards	2	March 2
In- person tests	In- person lectures	Factors affecting the determination of urban planning standards	Identify the factors affecting the determination of urban planning standards	2	March 3
In- person tests	In- person lectures	Services and sustainable development	Get to knowServices and sustainable development	2	March 4
In- person tests	In- person lectures	Urban development and service delivery	Get to knowUrban development and service delivery	2	April1
In- person tests	In- person lectures	Urban Service Delivery Standards in Iraq	Identifying the standards for providing urban services in Iraq	2	April 2
In- person tests	In- person lectures	Some concepts of spatial organization of services	Learn some concepts of spatial organization of services	2	April3
In- person tests	In- person lectures	Community Services	Learn about community services	2	April4
In- person tests	In- person lectures	Health services - and recreational services	Learn about health services and recreational services	2	Mays 1
Testsim manence	Lectures theimma nence	Infrastructure Services	Learn about infrastructure services	2	Mays 2
			Final exams		Mays3,4

50 points for annual pursuit, 25 points	50 points for annual pursuit, 25 points for each semester, divided as follows:					
20 marks for the written exam						
5 marks per day, distributed between o	daily exams or reports.					
50 marks final exam						
12. Learning and teaching resources						
- Geography of Services / Dr. Fouad Ghadhban - 2013	Required textbooks (methodology if any)					
-Geography of services Foundations						
and concepts / Dr. Mazen Abdel						
Rahman-2013						
 Geography of Services / Dr. Bashir Ibrahim Al-Tayef and others Geography of Services / Dr. Khaled Mohammed bin Amur 	Main References (Sources)					
-ResearchStudentsPostgraduate studies	Recommended supporting books and					
on services. ResearchInstructorsAbout Services.	references (scientific journals, reports)					
nothing	Electronic references, websites					

1. Name of the course

2 Headquarters Code 21

3rd Semester / Year 2024

4 Date of preparation of this description 2024/3/1

5 Available Attendance Forms In-person Lectures

6. Total number of study hours) / 60 hours Number of units (total) 4

60 hours / 4 units

7. Name of the course administrator if more than one name is mentioned.

Name: M.M. Nadra Helan Yaqoub

8 Course objectives

Email: nabera.hu.edu.iq

o course objectives					
bjectives of the study subject	Obj	•	what teaches	nts' ability to understand v	Developing studer
		1	s aspects, and knowing	the Prophet and its variou	The biography of t
		5	nces and the difference	ween it and the circumstar	the differences bet
		5	storical sources	in hi	
			ant pillars of	to cover the most importa	This course aims
			ognition of the change ir	of this science and the rece	The political aspect
		c	ing the era of prophecy	the invasions and raids dur	
			and mitigation	s to methods of adaptation	Introducing student
		5	and extremism of the apostate	From the severity	
g and learning strategies	And teaching				
Strategy		-	develop skills .	brainstorming to	Using
			re inside the hall	hod in the daily lectu	Discussion met
10. Course structure					
week	Watches	mes: Name of the	Learning outco	Learning method	road
		required	unit or topic		Evaluation

 Inside the hall.
 10. Course structure

 Evaluation
 Learning method
 Name of the Required learning Watches
 week

 method
 unit or topic
 outcomes
 Watches

Attendance	In-person	Chapter One /	Identify the concept of the	2	September 3
tests	lectures	Introduction to life Messenger (PBUH)	Prophet's biography	-	
Attendance tests	In-person lectures	Birth of the Prophet (PBUH)	Learn about the lineage and ancestors of the Messenger (PBUH)	2	September 4
Attendance tests	In-person lectures	Chapter Two / The New Arab Islamic State	Learn about the prophetic mission		October 2 1
Attendance tests	In-person lectures	The prophetic mission	The origin of the Westenger (PELH)		October 22
Attendance tests	In-person lectures	includes immigration and boycott of Banu Hashim	Migration to Abyssinia	2	October 3
Attendance tests	In-person lectures	The first and second pledge of allegiance at Aqaba	They sold Aqaba	2	October 4
Attendance tests	In-person lectures	Migration to Medina	Learn about immigration	2	November 1
Attendance tests	In-person lectures	Invasions and companies	Learn about the raids and expeditions	2	November 2
Attendance tests	In-person lectures	The Great Battle of Badr	Eearn about the Battle of Bade	2	November 3
Attendance tests	In-person lectures	The Battle of Uhud	Recognizing the conquest of Unud	Ň	ovember 2 4
Tests	Lectures	The invasion of the parties	Getting to know Ghazwa	1	December 12

 Inside the hall.
 10. Course structure

 Evaluation
 Learning method
 Name of the Required learning Watches
 week

 method
 unit or topic
 outcomes
 Watches

Attendance	In-person	Chapter One /	identify the concept of the	2	September 3
tests	lectures	Introduction to life Messenger (PBUH)	Prophet's biography		
Attendance tests	In-person lectures	Birth of the Prophet (PBUH)	Learn about the lineage and ancestors of the Messenger (PBUH)	2	September 4
Attendance tests	In-person lectures	Chapter Two / The New Arab Islamic State	Learn about the prophetic mission		October 2 1
Attendance tests	In-person lectures	The prophetic mission	The origin of the Messenger (PBLH)		October 22
Attendance tests	In-person lectures	includes immigration and boycott of Banu Hashim	Migration to Abyssinia	2	October 3
Attendance tests	In-person lectures	The first and second pledge of allegiance at Aqaba	They sold Aqaba	2	October 4
Attendance tests	In-person lectures	Migration to Medina	Learn about immigration	2	November 1
Attendance tests	In-person lectures	Invasions and companies	Learn about the raids and expeditions	2	November 2
Attendance tests	In-person lectures	The Great Battle of Badr	Eearn about the Battle of Bade	2	November 3
Attendance tests	In-person lectures	The Battle of Uhud	Recognizing the conquest of Unud	Ň	ovember 2 4
Tests	Lectures	The invasion of the parties	Getting to know Ghazwa	1	December 12

ليسان ا			متع بدد	الليحاضرات	احتيارات
	_	Lad Al-Sham	Derascus	Urbanism	Urbanism
April 2	2	Getting to know Egypt	Conquest of	In-person	Attendance
			Egypt	lectures	tests
April 3	2	Identify the factors	The victory of the Arabs.	In-person	Attendance
		that facilitated the Arabs' victory over the Romans	over the Persians and the Portans	lectures	tests
April 4	2	Get to know Nashaat Omar	Omar's death	In-person lectures	Attendance tests
May 1	2	Learn about the Caliphate of Utheran bas Affat (map Atlan be pleased with him)	His lineage and birth	In-person lectures	Attendance tests
mais 2	2	Uthman's conquests	Conquest of Andalusia	In-person lectures	Attendance tests
Mays 3,4	-		Final exams	19 11 	

11. Course evaluation	
nnual pursuit, 25 points for each semester, divided as follows:	50 points for a
20 marks for the written exam	
5 marks per day, distributed between daily exams or reports.	5
50 marks final exam	
12 Learning and Teaching Resources	
Required textbooks (methodology if any)	Biography of the Prophet / Hashem Yahya Al-Mallah
Main References (Sources)	Ibn Hisham Al-Maghazi died in the year 218
Supporting books and references recommended by journals	Al-Waqidi Biography and Battles
Scientific reports)	Al-Tabari / The Messengers and Kings
Electronic references Internet sites	E.maiL:DarKitb2003

نموذج وصف المقرر

	1. اسم المقرر
	البحار والمحيطات
	2. رمز المقرر
	G PG445
	3. الفصل / السنة
	2025- 2024
	4. تاريخ إعداد هذا الوصف
	محاضرات حضورية نظري وعملي
(الكلي)	 عدد الساعات الدر اسية (الكلي) / عدد الوحدات
	60 ساعة / 4 وحدات
يذكر)	 ٦. اسم مسؤول المقرر الدراسي (اذا اكثر من اسم بالمع المع المع المع المع المع المع المع
ي الايميل Ali.Mousa@tu.edu.iq	الاسم: م.د.علي عبدالله موسى خلف الجبور
	8. اهداف المقرر
 1- اعداد باحثين متخصصين في مجال مادة البحار والمحيطات. 2- المساهمة في معالجة المشكلات التي تواجه الطلبة في تعلم مادة البحار والمحيطات وتوجيههم التوجيه المهني الصحيح. 3- التمرس على استخدام شبكة المعلومات الدولية في الوصول إلى المراجع والمعلومات المطلوبة. المراجع والمعلومات المطلوبة. المقدرة على التعامل مع فهارس المكتبات والفهارس البيليو غرافية للحصول على المراجع والمصاد على المراجع والمصاد من المراجع والمعلوبة. 	اهداف المادة الدر اسية

	9. استراتيجيات التعليم والتعلم
 استعمال طريقة العصف الذهني في تنمية 	الاستراتيجية
المهارات .	
 استعمال التفكير التجمعي لانتاج معلومات صحيحة. 	
3- قيام الطلبة بإعداد المحاضرة وعرضها على	
ز ملائهم ثم فتح باب النقاش.	
4- تكليف الطَّالب باستخدام شبكة المعلومات بطريقة	
إيجابية تحقق الفائدة منها.	
تدريب الطالب على الاستخدام الصحيح للمراجع.	

10. بنية المقرر

طريقة التقييم	طريقة التعلم	مخرجات التعلم المطلوبة	الساعات	الأسبوع
اختبارات	المحاضرات الحضورية	التعرف على الطلبة	3	1
اختبارات	المحاضرات الحضورية	تعريف الطالبات بأهمية مادة البحار و المحيطات منظام الدرحات مالاختيامات	3	2
اختبارات حضورية	المحاضرات الحضورية وعملي	النعرف على مفهوم علم البحار و المحيطات وتطوره وماهي مصادر المعلومات في التحري الموقعي.	3	3
واجبات بيتية	المحاضرات	مفهوم جغرافية البحار والمحيطات	3	4
واجبات بيتية	المحاضرات	نظريات نشأة البحار والمحيطات	3	5
واجبات بيتية	المحاضرات	نظريه الانكماش و الكويكبات	3	6
واجبات بيتية	المحاضرات	نظريه انسلاخ القمر _ نظريه زحزحة القارات	3	7
واجبات بيتية	المحاضرات	نظريه الصفائح التكتونية	3	8
واجبات بيتية	المحاضرات	نظريه انتشار قاع المحيط	3	9
واجبات بيتية	المحاضرات	التوزيع المكاني للبحار	3	10
واجبات بيتية	المحاضرات	التوزيع المكاني للمحيطات	3	11
واجبات بيتية	المحاضرات	التوزيع المكاني للخلجان	3	12

واجبات بيتية	المحاضرات	التوزيع المكاني للمضايق	3	13
واجبات بيتية	المحاضرات	حركة المياه في البحار	3	14
واجبات بيتية	المحاضرات	حركة المياه في المحيطات	3	15
واجبات بيتية	المحاضرات	الامواج و المد والجزر و التيارات المحيطية	3	16
		عطلة ربيعية		
			3	
واجبات بيتية	المحاضرات	تصنيف البحار والمحيطات على اساس الملوحة	3	17
واجبات بيتية	المحاضرات	تصنيف البحار والمحيطات عل اساس الموقع الجغرافي	3	18
واجبات بيتية	المحاضرات	اهميه و الانواع البحار الحديثة	3	19
واجبات بيتية	المحاضرات	اهميه البحار والمحيطات ظخامه امتداد غلافها المائي	3	20
واجبات بيتية	المحاضرات	الخصانص الطبيعة / الحرارة / الكثافة / اللون /	3	21
واجبات بيتية	المحاضرات	الخصائص الكيميائية / المياه / البحار / المحيطات	3	22
واجبات بيتية	المحاضرات	اهميه البحار والمحيطات في حركه انتقال السلالات البشرية	3	23
واجبات بيتية	المحاضرات	الامواج / التيارات المحيطية	3	24
واجبات بيتية	المحاضرات	السواحل / تصنيف السواحل	3	25
واجبات بيتية	المحاضرات	الظواهر التضاريسية الموجبة لقيعان البحار والمحيطات	3	26
واجبات بيتية	المحاضرات	الظواهر التضاريسية السالبة لقيعان البحار والمحيطات	3	27
واجبات بيتية	المحاضرات	الظاهرات الجيومر فولوجية الساحلية	3	28
		الامتحانات النهائية		29

11. تقييم المقرر

صل وتقسم كالاتي:	25 درجة لكل ف	السنوي بواقع)5 درجة للسعى
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20 درجة للامتحان التحريري

5 درجات لليومي توزع بين امتحانات يومية او تقارير

50 درجة امتحان آخر السنة

12. مصادر التعلم والتدريس

1- مهدي الصحاف . البحار والمحيطات	المراجع الرئيسة (المصادر)
جودة حسنين جودة – البحار والمحيطات	
1- كل المصادر التي تخص البحار والمحيطات والابحاث الأجنبية في هذا المجال	الكتب والمراجع الساندة التي يوصبي بها)
-1 المواقع العلمية العالمية مثل Research Gateلأمكانية تحميل الابحاث العلمية العالمية الرصينة في موضوع البحار والمحيطات	المراجع الإلكترونية, مواقع الانترنيت

				and the second se
1. Name of the course				
prepara	4 Date of p			
ms of at	5 form			
hours	hours (total) / 60 ł	mber of study I	6. Nu	
strator if	te of the course administ	7. Nam		
Name:	1	:Email	nabera.hgueoux	
	•	to know	g students' ability	Developing
	e	of the Ottoman Empir	Gimpses of the history	
	•	oman Empire	ntity of the origin of the Ot	Clarifying the ide
	•	that resist	sistance movements	Knowing the re
	it	I how to liberate i	The Arab world and	
9 teacl	9			
	·.	o develop skills	sing mental skills t	U
	le	ly lecture insid	on method in dai	Discussi
	н	Study ha		
Wat	Learning outcomes	Unit name	Learning method	road
tio non	oreparation s of atter hours No rator if mo Name: M	4 Date of preparation 5 forms of attention nours (total) / 60 hours No e of the course administrator if mo Name: M Name: M 9 teachin e 1 9 teachin	4 Date of preparation 4 Date of preparation 5 forms of attend 7. Name of the course administrator if mo 7. Name of the course administrator if mo 9 teaching 1 do know 9 teaching 1 do know to liberate it 9 teaching 1 do know to liberate it 9 teaching 1 do know to liberate it 1 do know to libera	4 Date of preparation 5 forms of atter 6. Number of study hours (total) / 60 hours N 7. Name of the course administrator if mo Rabera.hgueaue :Email Name: M g students' ability to know • Ginpses of the history of the Ottoman Empire ntity of the origin of the Ottoman Empire esistance movements that resist • The Arab world and how to liberate it 9 teachin sing mental skills to develop skills. ion method in daily lecture inside Study hall Learning method Unit name Learning outcomes Watch



September 3	2	Introduction / History Modern of the Arab World	The energence of the state Ottoman	In-person lectures	Tests Urbanism
September	2	Theories about the origins of the Ottoman Empire	theory Kibons Cobrely	Lectures Urbanism	Tests Urbanism
October 2	ŝ	expansion of the Arab world	The emergence of the	In-person	Attendance
1		The Ottoman	Safavid state	lectures	tests
October 22		The European colonial invasion of the Arab homeland	Includes the Portuguese invasion For the Arab Maghreb	In-person lectures	Attendance tests
October 2 3		Spanish invasions	Includes: Al-Jaza'a, Tripoli and ر Tunis.	Lectures Urbanism	Attendance tests
2 October 4		Ottoman control of the Arab world	lt includes the Levant Egypt and Hijaz And Yemen Iraq	In-person lectures	Tests Urbanism
November 2		Ottoman control over	Include	Lectures	Tests
1		the Maghreb countries	is Morocco a story	Urbanism	Urbanism
November 2		Chapter Two / The Governance	Caliphate	In-person	Attendance
2		Administration and Systems of the Ditzman Empire	government	lectures	tests
November 3 2		military The	It includes: cast The sector of the Janissary forces	In-person lectures	Attendance tests
November 42		conditions General	The situation except	Lectures	Tests
		of the Ottoman Empire	Economic otherwise Social and political taxes and trade	Urbanism	Urbanism
December 1		The Ottoman states and local powers	Mamluks in Baghdad Mamluks	Lectures Urbanism	Tests Urbanism

11. Course evaluation	
al pursuit, 25 points for each semester, divided as follows:	50 points for ann
20 marks for the written exam	
arks per day, distributed between daily exams or reports.	5
50 marks final exam	
12 Learning and Teaching Resources	
Required textbooks (methodology if any)	Anis Muhammad The Ottoman Empire and the Levant
	Arabic
	Brockelmann / History of Islamic Peoples
Main References (Sources)	Hourani Albert Ottoman Foundation of the East
	The middle and the modern accompanied Abdul Karim Balad
	Levant and Egypt since the Ottoman conquest until
	Napoleon's campaign
inawi magazines Muhammad Abdul Aziz The Ottoman State	Supporting books and references recommended by Al-
Scientific reports)	Islamic state
Electronic references, websites	Electronic resources in Al-Nour Library
	For electronic books and the Iraqi warehouse
	For electronic books

1. Course name
Geography of Drylands/First Stage
2. Course code
111GDR
3. Semester/Year
2024-2025
4. Date this description was prepared
9/18/2024
5. Available forms of attendance
In-person lectures
6. Number of study hours (total) / Number of units (total)
60Hour / 4 units
7. Name of the course supervisor (if more than one name is mentioned)
the name: M.M. Mohammed SALAM YOUSIF Email: mohammed.yousif819@tu.edu.iq
8. Course objectives
A- Developing the ability of students to understand the arid and semi-arid regions and their places of distribution within the world and continents.
B- Providing students with knowledge and ideas to identify the most important sources of obtaining geoclimatic data and information, including those

related to the data available at the Ministry of Transport, as well as books, references and research

C- Enabling students to understand the basic rules of dry regions and activating their role in their

regarding the material.

development on the ground.

9. Teaching and learning strategies									
- Using brain - Discussion	nstorming to devel method in daily le	lop skills. ecture Inside the	Strategy						
classroom.									
10. Course S	Structure								
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Watch es	The week				
In-person tests	In-person lectures	Chapter One/Drough t and its causes	The concept of drought and its causes	2	November7				
In-person tests	In-person lectures	For dry lands	dryland concept	2	November14				
In-person tests	In-person lectures	Drought Geography	The concept of drought geographically	2	October the second21				
In-person tests	In-person lectures	Causes of drought	Natural causes of drought	2	October28th				
In-person tests	In-person lectures	Chapter Two/Arid and semi- arid climate	Dry climate	2	December 5				
In-person tests	In-person lectures	Köppen classification Benman Thornthwait e classification	Climate classifications and their differences	2	December 12				
In-person tests	In-person lectures	Climate elements heat, evaporation, solar classification		2	December 19				
In-person tests	In-person lectures	Benin classification	Learn about the Benin classification	2	December 26				
In-person tests	In-person lectures	Thornthwait e classification	Learn about Thornthwaite's classification	2	January 2				
In-person tests	In-person lectures	Climatic elements	Climatic elements and their	2	January 9				

			characteristics in									
In-person	In-person	=	Arid and semi-arid	2	January 61							
In-person tests	In-person lectures	Chapter Three/Landf orms in dry	Identify landforms in dry areas	2	January 23							
In-person	In-person	areas Earth surface shapes formed due	Surface forms of the Earth that are formed by weathering, erosion	2	January 30							
tests	lectures	to Weathering	and sedimentation.									
In-person tests	In-person lectures	Earth surface forms formed by erosion	Earth surface forms formed by erosion	2	February 6							
	Spring break from 1/3/2024 to 8/3/2024											
In-person tests	In-person lectures	Chapter 1fourth/	Dryland water resources	2	February 20							
In-person tests	In-person lectures	Dryland water resources	Main sources of water in dry lands	2	February27							
In-person tests	In-person In-person de tests lectures de		Water is a crucial element in the development of dry areas.	2	March 5							
In-person tests	In-person lectures	Main sources of water in dry lands	Identify the main sources of water in dry lands	2	March 12							
In-person tests	In-person lectures	On the water resources of the Arab drylands	Identifying the water resources of the Arab drylands	2	March 19							
In-person tests	In-person lectures	Chapter 1fifth/drylan d dwellers	dryland dwellers	2	March 26							
In-person tests	In-person lectures	Population distribution in drylands	Identifying population distribution and density in drylands	2	April 2							
In-person tests	In-person lectures	Factors affecting	Identify the factors that affect	2	April 9							

		population distribution	population distribution and density.		
In-person tests	In-person lectures		Oil and its impact on the economic and social development of the inhabitants of dry lands	2	April 16
In-person tests	In-person lectures	Chapter 1sixth/Agric ulture in dry areas	The concept of agriculture in dry areas	2	April 23
In-person tests	In-person lectures	soil in dry areas	The nature of the soil and its suitability for agriculture in dry areas	2	April 28
In-person tests	In-person lectures	Agriculture in dry areas	Agriculture in arid and semi-arid areas	2	April 28
			Final exams		Mays3,5

50 points for annual pursuit, 25 points for each semester, divided as follows:

20 marks for the written exam

5 marks per day, distributed between daily exams or reports.

50 marks final exam

12. Learning and teaching resources

-D.Qusa Abdul Majeed Al-Samarrai,	Required textbooks (methodology if any)
Geography of Dry Lands	
-Dr. Abdul Makhour Al-Rayhani, Geography of Dry Lands	Main References (Sources)
1-Geography of dry regions: a	Recommended supporting books and references
geographical perspective ,Hassan Ramadan Salama, 2010	(scientific journals, reports)
(PDF) Updated World Map of the Koppen- Geiger Climate Classification	Electronic references, websites
(researchgate.net)	
World Maps of Köppen-Geiger climate	
classification (vu-wien.ac.at)	

1. Program vision

Remember to see the program as stated in the university prospectus and website.

2. Program message

Remember tAskThe program is as stated in the university's bulletin and website.

3. Program objectives

General statements that describe what he intends the programOr the institution achieves it.

4. Programmatic accreditation

Dothe programHave program accreditation? From which side?

5. Other external influences

Is there a sponsor? Ofprogram?

6. Program structure										
comments	percentage	Study unit	Number of	Program						
			courses	structure						
				Enterprise						
				requirements						
				College						
				requirements						
				Department						
				requirements						

		summer
		training
		Other

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

7. Program description										
Credit hou	irs	Name of the course	Course or course	Year/level						
		or course	code							
practical	theoretical									

8. Expected learning outcomes of the program										
Knowledge										
Statement of learning	; outcomes 1	Learning outcomes 1								
Skills										
Statement of learning	; outcomes 2	Learning	g outcome	s 2						
Statement of learning	; outcomes 3	Learning	g outcome	s 3						
Value										
Statement of learning outcomes 4Learning outcomes 4										
Statement of learning	; outcomes 5	Learning	g outcome	s 5						
9. Teaching and lear	rning strategies									
Teaching and learnin	g strategies and method	ds adopte	d in imple	menting the	e program in					
general.										
10. Evaluation meth	ods									
Implementing it in al	l stages of the program	in genera	al.							
11. The teaching sta	ff									
Faculty members										
Preparing the	Requirements/skills	Specializ	zation	Scientific						
teaching staff	any)				rank					
lecturer angel			private	general						

Professional development

Orienting new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-time

faculty at the institution and department levels.

Professional development for faculty members

Briefly describe the academic and professional development plan and arrangements

for faculty members such as teaching and learning strategies, assessment of learning

outcomes, professional development, etc.

12. Acceptance criterion

(Developing regulations related to admission to the college or institute, whether central admission or others mentioned)

13. The most important sources of information about the program

Remember briefly.

14. Program development plan

	Program skills chart														
	Learning outcomes required from the programme														
	Va	lue			Ski	lls		Knowledge		Essenti	Cours	Cours	Year/lev		
									C		al or	e	e	el	
												optiona	Name	Code	
												1?			
C	С	С	C	В	В	В	В	Α	Α	Α	Α				
4	3	2	1	4	3	2		4	3	2	1				
							1								

*Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation
Course description form

1. Course name

Meteorology and Climatology

2. Course code

104 GCS

3. Semester/year

2025 - 2024

.4The date this description was prepared

2024 / 9 / 18

.5Available forms of attendance

In-person lectures

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

60hours / 4 units

.7Name of the course administrator (if more than one name is mentioned(

Name: Dr. Abdul Rahman Abdul Karim Yahya Jassim

Email: abdulrahman.yahya@tu.edu.iq

.8Course objectives

U			
Objectives of the study subject	 Keeping up with and staying updated 		
	on topics related to climate elements		
	and their devices.		
	Studying the fundamentals of weather		
	and climate elements and		
	phenomena.		
	 Utilizing technology to enhance 		
	education and deliver lectures via		
	computers.		
9. Teaching and learning strategies			
- In-person lectures.	The strategy		

 Use the method of asking questions to students. Using brainstorming to develop students' skills 	
 Discussion method for details of the lecture topic in the classroom. Weekly duties 	

10. Course structureEvaluatioLea Learning Name of Required hours the week

n method	method	the unit or	learning		
		topic	outcomes		
In-person	In-person tests	Chapter One /	Chapter One:	2	eptember
tests		Basics of	Understanding		3
		Climatology	the Concept of		
			Climate and		
			Weather		
			Fundamentais		
In-person	In-person tests	The	Understand the	2	eptember
tests		importance of	importance of	_	4
		climatology	climate science		
			from a theoretical		
			and practical		
			.perspective		
In-nerson	In-nerson tests	Factors		2	1 October
tests	m-person tests	affecting	Identify the	Z	
		climate	elements of		
		elements	climate		
					_
In-person	In-person tests	Types of solar	Chapter Two	2	2 October
tests		radiation	Solar Radiation		
In-person	In-person tests	Factors	The importance of	2	October 3
tests		affecting	radiation		
		radiation	radiation		
In-person	In-person tests	Factors	Chapter Three:	2	1. October
tests		affecting	Heat and its	-	
		temperature	Types		
			31		
In-person	In-person tests	Atmospheric	Chapter Four	2	November
tests		pressure	Atmospheric		1
		centers	Pressure		
In-person	In-person tests	Types of winds	Chapter Eive	2	November
	,		Chapter Five		

tests			Winds		2
In-person tests	In-person tests	The importance of rain and how to classify it	Chapter Six Rain	2	November 3
In-person tests	In-person tests	Types of rain	Factors affecting rainfall	2	November 4
In-person tests	In-person tests	Knowledge of evaporation measurements	Evaporation and types of transpiration	2	December 1
In-person tests	In-person tests	Types of devices	Study of measuring devices	2	December 2
In-person tests	In-person tests	Dust storms	Climate phenomena	2	December 3
In-person tests	In-person tests	Stratosphere	Layers of the atmosphere	2	December 4
In-person tests	In-person tests	Troposphere	The atmosphere	2	Decembe 1 r
	Spr	ing break from	14/2/ to 21/2/2025	I	
In-person tests	In-person tests	Köppen classification	Learn about climate classifications	2	4 January
In-person tests	In-person tests	Fundamental classifications		2	February 1
In-person tests	In-person tests	Classification results		2	February 2
In-person tests	In-person tests	Classification types		2	February 3
In-person tests	In-person tests			2	February 4
In-person tests	In-person tests			2	1 March
In-person tests	In-person tests			2	2 March

In-person	In-person tests			2	March
tests					3
In-person tests	In-person tests			2	March 4
In-person tests	In-person tests			2	1 April
In-person tests	In-person tests			2	2 April
In-person tests	In-person tests			2	3 April
In-person tests	In-person tests			2	4 April
In-person tests	In-person tests			2	1 May
In-person tests	In-person tests	Examples of the ritual map		2	2 May
			Final exams		3.4 May

11. Course Evaluation

50points for the annual effort, 25 points for each semester, divided as follows:

20points for the written exam

5points for the daily exam, distributed between daily exams or reports

50points for the end-of-year exam

12. Learning and teaching resources	
Required textbooks (methodology if any)	- Basics of climate and weather
	Qusay Al-Samarrai, Applied Climate, University of
Main References (Sources)	Baghdad, College of Arts. Ali Hassan Musa,
	Contemporary Climate Issues, Dar Al-Fikr,
	Damascus, First Edition, 2022.
	The comprehensive electronic magazine
Recommended supporting books and	mecsJournal of scientific and geographical
references (scientific journals,	studiesDar Al Fikr Al Geographical House in
(reports	DamascusAnd meteorological research centers and
	NASA

Electronic references, websites	www.darsafa.net
	dijla.bookshop@yahoo.com

the signature

Authentication of the Dean

1. Program vision

Remember to see the program as stated in the university prospectus and website.

2. Program message

Remember tAskThe program is as stated in the university's bulletin and website.

3. Program objectives

General statements that describe what he intends the programOr the institution achieves it.

4. Programmatic accreditation

Dothe programHave program accreditation? From which side?

5. Other external influences

Is there a sponsor? Ofprogram?

6. Program structure						
comments	percentage	Study unit	Number of	Program		
			courses	structure		
				Enterprise		
				requirements		
				College		

		requirements
		Department
		requirements
		summer
		training
		Other

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

7. Program description						
Credit hours		Name of the course or course	Course or course code	Year/level		
practical	theoretical					

8. Expected learning outcomes of the program						
Knowledge						
Statement of learning outcomes 1	Learning outcomes 1					
Skills						
Statement of learning outcomes 2	Learning outcomes 2					
Statement of learning outcomes 3	Learning outcomes 3					
Value						
Statement of learning outcomes 4	Learning outcomes 4					
Statement of learning outcomes 5	Learning outcomes 5					
9. Teaching and learning strategie	ès					
Teaching and learning strategies and	d methods adopted in implementing the					
program in general.						
10. Evaluation methods						
Implementing it in all stages of the program in general.						
11. The teaching staff						

Faculty members						
Preparing	g the	Requirements/skills (if	Specialization		Scientific	
teaching	staff	any)			rank	
lecturer	angel		private	general		

Professional development

Orienting new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-

time faculty at the institution and department levels.

Professional development for faculty members

Briefly describe the academic and professional development plan and

arrangements for faculty members such as teaching and learning strategies,

assessment of learning outcomes, professional development, etc.

12. Acceptance criterion

(Developing regulations related to admission to the college or institute,

whether central admission or others mentioned)

13. The most important sources of information about the program

Remember briefly.

14. Program development plan

	Program skills chart														
	Learning outcomes required from the programme														
Value			Skills			Knowledge		Essential	Course	Course	Year/level				
								or	Name	Code					
						-					optional?				
C4	C3	C2	C1	B4	B3	B2	В	A4	A3	A2	A1				
							1								

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

Course description form

1. Course name

Applied Climatology

2. Course code

211 GAC

3. Semester/year

2025 - 2024

.4The date this description was prepared

2024 / 9 / 18

.5Available forms of attendance

In-person lectures

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

60hours / 4 units

.7Name of the course administrator (if more than one name is mentioned(

Name: Dr. Abdul Rahman Abdul Karim Yahya Jassim

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.8Course objectives

Subject objectives	Introducing students to the concept of applied climatology, its objectives and methods of study, and the stages of development that this science has gone through, in addition to explaining measuring devices and how to work on them and use them. This course also aims to make the student able to deal with statistical data and mathematical equations within this branch of climate.
9. Teaching and Learning Strategies	
Strategy	In-person lectures Using the method of asking questions to students Using brainstorming to develop skills Discussion

10. Course Structure

Evaluati on method	Learnin g method	Name of the unit or topic	Required learning outcomes	hours	the week
In-person tests	In-person tests	Chapter One: Applied Climatology (Research Tools) First: The Emergence of Applied Climatology and Climate Impact Assessment Weather, Climate and Daily Life Development of Applied Climatology, Concepts, Applications, Weather Concerns and Awareness Assessment of Climate Impacts	Homework	2	One
In-person tests	In-person tests	Second: Earth and remote sensing measurements Comparison between old and modern climate devices Old- fashioned climate devices New generation of climate devices Remote sensing	Homework	2	Two
In-person tests	In-person tests	Third: Statistical considerations Statistical significance and time series analysis Spatial analysis	Homework	2	Three
In-person tests	In-person tests	Fourth: Climate Model Climate System Modeling, Comprehensive Climate Model, Climate Impact Models, Integrated Assessment Models, and Climate Model Evaluation	Homework	2	Four
In-person tests	In-person tests	Fifth: Management of the gaseous envelope resources Issues of managing the gaseous envelope resources History of managing the gaseous envelope resources Current management approachThe problem of air quality Integration of the air issue Sustainable development and the gaseous envelope	Homework	2	Five
In-person tests	In-person tests	Chapter Two Climate and the Natural Biosphere First: Hydrological Processes	Homework	2	Six

		and Water Resources Climate and Water Environment Hydrological Processes Impact of Climate Change and Hydrological Response			
In-person tests	In-person tests	Second: Glaciers - Refrigerators Climate and glaciers Types of glaciers Natural and thermal characteristics Refrigerators - the range of components and climatic controls	Homework	2	Seven
In-person tests	In-person tests	The role of climate in the transformation of ice glaciers Glacier mass balance and climate controls	Homework	2	Eight
In-person tests	In-person tests	Third: Geomorphological processes and landforms Geomorphological climateClimate and geomorphological processesClimate change and landforms	Homework	2	Nine
In-person tests	In-person tests	Fourth: Soils Soil Soil Atmosphere Soil Climate Climate and Soil Geography Soils and the Effect of Greenhouse Gases The Effect of Climate Change on Soils	Homework	2	Ten
In-person tests	In-person tests	Fifth: Vegetation: Climate and Vegetation Plant Communities in the Geological Past Current Climate and Vegetation	Homework	2	Eleven
In-person tests	In-person tests	Sixth: The response of living organisms to climate Climate and life Climate elements Bioclimatic zones Climate instability Energy sources	Homework	2	Twelve
In-person tests	In-person tests	Biochemical adaptation Temperature change and stability Poikilothermic system Homeothermic system	Homework	2	Thirteen
In-person tests	In-person tests	Chapter Three: Climate and the Urban EnvironmentFirst: Comfort - Clothing and Health Human Adaptation and Microclimate Management Temperature Stability and Adaptation Human Energy BalanceEstimating Heat Stress	Homework	2	Fourteen
In-person tests	In-person tests	Outerwear Thermal comfortAcclimatization Weather effects on behavior and performanceWeather effects on morbidity and mortality	Homework	2	Fifteen
In-person tests	In-person tests	Second: Urban Planning, Architecture and Construction Climate and Building Environment Heat, Humid Climates Cold Climates, Polar Climates Other Climates Applications in Urban Planning	Homework	2	Sixteen

In-person tests	In-person tests	Third: Industry and Trade Climate, Industrial Production and Commercial Activities Location of Industries Industrial Operations Construction Operations Trade	Homework	2	Seventee n
In-person tests	In-person tests	Fourth: Climate transport systems and air transport services	Homework	2	Eighteen
In-person tests	In-person tests	Rail transport Land transport Water transport	Homework	2	Nineteen
In-person tests	In-person tests	Fifth: Agriculture and fishing Nature and rate of environmental change Climate elements, crop and animal production regulation Response of agricultural crops to global environmental changes	Homework	2	Twenty
In-person tests	In-person tests	Crop Production and Climate Change Climate and Animal Production Fishing and Environmental Change Plants and Animal Husbandry	Homework	2	Twenty- one
In-person tests	In-person tests	Sixth: Forests Climate and Forests Climate and Forest Sustainability	Homework	2	Twenty- two
In-person tests	In-person tests	Seventh: Tourism and Recreation Climate and Recreational Effects Weather and Recreation Temporal and spatial disturbance	Homework	2	Twenty- three
In-person tests	In-person tests	Weather and Climate Information Industry Tourism Climate Change Tourism and Leisure	Homework	2	Twenty- four
In-person tests	In-person tests	Eighth: Politics, Social and Legal Aspects of Climate Political Considerations Legal Considerations Ninth: Energy Sector: Climate and Energy Sources Global Energy Sources	Homework	2	Twenty- five
In-person tests	In-person tests	Energy Transmission Energy Conversion Energy Demand	Homework	2	Twenty- six
In-person tests	In-person tests	Chapter Four: Climate Change First: Global Climate and Global Environmental Change The Nature of Global Environmental Change The Impact of City Climates on Global Environmental Change The Impact of Global Environmental Climate on City Climate	Homework	2	Twenty- seven
In-person	In-person	Second: Air Pollution Concepts and Classification of Air Pollution and Global	Homework	2	Twenty-

tests	tests	Air Pollution Problems Air Pollution Problems on a Continental Scale City Air Pollution Problems			eight
In-person tests	In-person tests	Third: Climate extremism as a threat to humanity Climate extremism, risks and disasters Impact of weather disasters Reducing the risks and impact of weather disasters	Homework	2	Twenty- nine
In-person tests	In-person tests	Fourth: Climate change, past and present Climate and human history In the Middle Ages	Homework	2	Thirty

12- Infrastructure	
1- Required textbooks	Applied Climatology, Author: Adel Saeed Al-Rawi, Qusay Abdul Majeed Al- Samarrai.
2- Main references (sources)	
3- Books and references recommended (scientific journals, reports,)	

13- Curriculum development plan	n
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