

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

## Academic Program Description Form for Colleges and Institutes For the Academic Year (2025–2026)

University: Al-Muthanna  
College / Institute: College of Education for Human Sciences  
Scientific Department: Geography  
Date of Completing the Form: 1/9/2025

**Signature:**



Name of Head of Department: Prof. Dr. Yahya  
Abdul Hassan Faleh  
Date: 1/9/2025

**Signature:**



Name of Scientific Assistant: Prof. Dr. Latif  
Kamel Kliwi  
Date: 1/9/2025

Reviewed by:

Quality Assurance and University Performance Division

Name of the Head of Quality Assurance and University Performance Division:

Date: 1/9/2025

**Signature:**



Approved by the Dean

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	1. Educational Institution
Department of Geography	2. Scientific Department/Center
<b>Applied Geomorphology</b>	3. Name of the academic or professional program
Masters	4. Name of Final Certificate
First Course	5. Academic System : Annual/Courses/Other
Academic Accreditation Program	6. Accredited Accreditation Program
	7. Other External Influences
1-9-2025	8. Description Preparation Date
<p><b>9. Objectives of the Academic Program:</b> This course for the first semester <b>aims to</b> interpret and analyze the shapes of the earth's surface of various types and adopt modern techniques to measure different geomorphological processes and manifestations in the field and laboratory.</p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	1. Educational Institution
Department of Geography	2. Scientific Department/Center
<b>Applied Geomorphology</b>	3. Course Name/Code
My class (in-person)	4. Available Forms of Attendance
2025-2026	5. Semester/Year
30 hours	6. Number of Hours ( Total)
1-9-2025	7. Date this description was prepared
8. Course Objectives: The course aims to: interpret and analyze the shapes of the earth's surface of various types, adopt modern techniques to measure various geomorphological processes and manifestations in the field and laboratory, study hydromorphometric applications in the study of rivers and valleys, and applications of geomorphological engineering studies such as building roads and dams, digging tunnels, evaluating and confronting natural disasters, and developing and investing natural resources.	

<b>9. Course Structure:</b>				
<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Applied Geomorphology and its Dimensions	2	First
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Field Study in Geomorphology	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Weathering..... and its geomorphological role	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Soils, their origins, and their problems.	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Water erosion in dry areas	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Wind erosion and its measurement	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Regressions - Types, Problems and Measurement	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Quantitative Methods in Applied Geomorphology	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Rivers, their development and factors affecting water flow and discharge in river basins and dry valleys	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Morphometric variables of water networks	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	The Role of Applied Geomorphology in the Construction of Dams and Reservoirs	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Applied Geomorphology and Mineral Resources (Minerals - Petroleum)	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Terrain and Engineering and Urban Project Planning	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Geomorphology of drylands - Iraq	2	Fourteenth

<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Applied Geomorphology and Artificial Intelligence.</b>	<b>2</b>	<b>Fifteenth</b>
10. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		1- Required Textbooks		
1- Khalaf Hussain Al-Dulaimi, Applied Geomorphology, Amman, Jordan, 2012. 2- Taghlib Zarzis Daoud, Applied Geomorphology, Al- Mustansiriya, 2002.		2- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	10.Educational Institution
Department of Geography	11.Scientific Department/Center
<b>Geographical Scientific Research Skills and Seminars</b>	12.Name of the academic or professional program
Masters	13.Name of Final Certificate
First Course	14.Academic System : Annual/Courses/Other
Academic Accreditation Program	15.Accredited Accreditation Program
	16.Other External Influences
1-9-2025	17.Description Preparation Date
<p><b>18. Academic Program Objectives: This course for the first semester aims to train students at the master's level on the skills and methods necessary to prepare a master's thesis according to modern research visions and perceptions.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	11. Educational Institution
Department of Geography	12. Scientific Department/Center
<b>Geographical Scientific Research Skills and Seminars</b>	13. Course Name/Code
My class (in-person)	14. Available Forms of Attendance
2025-2026	15. Semester/Year
30 hours	16. Number of Hours (Total)
1-9-2025	17. Date this description was prepared
18. Course Objectives: The course aims to: <b>introduce master's students to the skills and methods of geographical research in order to prepare them to write methodologically worthy geographical theses by providing them with modern skills and methods in this direction.</b>	

**19. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The nature, philosophy and goals of geography</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Scientific Research Ethics and its Sources</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Concepts of Scientific Research in Physical and Human Geography</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Scientific Foundations for Choosing Master's Subjects</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Collection of natural and human geographic information and its problems</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Research Methods in Geography, Characteristics and Philosophy</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Samples and their types and identifying the statistical community in geographical research</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Samples of the field study (applied)</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Statistical methods and how to use them in writing a thesis</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geographical Techniques and the Possibility of Employing them in the Thesis</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Methods of Presentation and Analysis of Information Construction Methods, Graphs and Pictorial</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Methods of documenting references in footnotes in a bibliography</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Writing the final content of the message and getting rid of plagiarism</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Preparations for the day of discussion</b>	<b>2</b>	<b>Fourteenth</b>

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Discussion of Students' Research	2	Fifteen nth
20. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program			3- Required Textbooks	
1- Linda Latad, et al., Scientific Research Methodology and Techniques in the Social Sciences, Arab Democratic Center, Berlin, 2019. 2- Yousri Al-Gohary, The Human Content of Geography, First Edition, Al-Raya Library and Press, 1999. 3- Hussein Sabri, The Skill of Scientific Research, First Edition, Dar Hamalil for Printing, Publishing and Distribution, 2015			4- Primary References	

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	19.Educational Institution
Department of Geography	20.Scientific Department/Center
Holistic climate	21.Name of the academic or professional program (name of the course or course)
Masters	22.Name of the final certificate (Master's - PhD)
First Course	23.Academic System : Annual/Courses/Othe r

Academic Accreditation Program	24. Accredited Accreditation Program
	25. Other External Influences
1-9-2025	26. Description Preparation Date
<p><b>27. Objectives of the Academic Program: Clarification of the general concepts of the holistic and kinetic climate, the importance of weather data, the importance of remote sensing in the study of the holistic climate, the reading and analysis of weather and climatic maps, the study and analysis of pressure levels and the basic controls controlling the gaseous atmosphere, the clarification of the cells of the general circulation of the gaseous atmosphere, the clarification of the concepts and reasons for the formation and impact of depressions, atmospheric heights, air masses, waves, fronts, pressure barrier, jet currents, Atlantic oscillations, El Niño phenomenon, jet currents, and the most prominent Climate Impacts on the World and Iraq.</b></p>	

## Course Description Form

### Course Description

**This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to apply them, demonstrating whether he has made the most of the available learning opportunities, and it is necessary to link them to the description of the program.**

Muthanna University / College of Education for Humanities	21. Educational Institution
Department of Geography	22. Scientific Department/Center
Holistic climate	23. Course Name/Code
My class (in-person)	24. Available Forms of Attendance
2025-2026	25. Semester/Year
. Hour	26. Number of Hours ( Total)
1-9-2025	27. Date this description was prepared
28. Course Objectives: The course aims to: consolidate the general concepts of the holistic and kinetic climate, analyze the weather systems of the totalitarian systems, read and analyze maps, and study the most prominent phenomena that occur in the gaseous atmosphere, their climatic causes and their impact on Iraq in particular.	

## 29. Course Structure:

Evaluation Method	Teaching Method	Module Name / or Subject	Watches	The week
Written, Oral and Performing Exam	Interrogation, discussion and dialogue	Meeting with students with the distribution of curriculum vocabulary and research titles	2	First
Written, Oral and Performing Exam	Interrogation, discussion and dialogue	The concept of holistic climate and methods used in holistic research and holistic weather data	2	The second
Written, Oral and Performing Exam	Interrogation, discussion and dialogue	Analysis of Weather and Comprehensive Maps	2	The third
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	Basic controls controlling the gaseous atmosphere General-cycle cells of the gaseous atmosphere	2	Fourth
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	The concept of heat reducers – the reasons for their emergence – their types – the thermal depressions affecting the climate of Iraq	2	Fifth
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	Frontal depressions – their concept – their formation mechanism The theories that explained their formation – frontal depressions affecting the climate of Iraq	2	Sixth
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	Atmospheric Heights - Its Concept, Stages of Formation and Factors Affecting It - Classification - The Most Prominent Heights Affecting Iraq's Climate	2	Seventh
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	Air masses: their concept, classification, types, and the most prominent atmospheric heights affecting Iraq's climate	2	Eighth
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	Air fronts are the concept of how they emerged, the most prominent fronts affecting Iraq's climate	2	Ninth
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	Air stagnation - the role of stagnation in the emergence of air fronts - characteristics of air stagnation affecting Iraq's climate The concept of grooves and dents and their formation mechanism	2	Tenth

Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	Semester Exam	2	Eleventh
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	The concept of the pressure barrier and the history of its study Causes and types of pressure barrier Climatic effects of the barrier – the geographical distribution of the pressure barrier	2	XII
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	Jet Currents: Their Concept, How They Arise, and Their Types – Polar, Suborbital and Orbital Jet Currents	2	Thirteenth
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	El Niño Southern Oscillation Causes and Climatic Effects	2	Fourteenth
Interrogation, discussion and dialogue	Interrogation, discussion and dialogue	North Atlantic Vibration and Research Discussion	2	Fifteenth

### 30. Infrastructure

No scheduled books	5- Required Textbooks
Holistic Climate, Salar Ali Khudair The Inclusive Climate, Kazem Abdulwahab Al-Asadi and Ali Abd Al-Abbas Holistic Climate , Qusay Abdul Majeed Al-Samarrai	6- Primary References

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	28.Educational Institution
Department of Geography	29.Scientific Department/Center
English	30.Name of the academic or professional program

Masters	31.Name of Final Certificate
First Course	32.Academic System : Annual/Courses/Other
Academic Accreditation Program	33.Accredited Accreditation Program
	34.Other External Influences
1-9-2025	35.Description Preparation Date
<p><b>36. Objectives of the Academic Program: This course for the first semester aims to study the modern trends in geopolitics by reviewing their nature, research trends, and the scientific addition achieved from them.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	31. Educational Institution
Department of Geography	32. Scientific Department/Center
English	33. Course Name/Code
My class (in-person)	34. Available Forms of Attendance
2025-2026	35. Semester/Year
30 hours	36. Number of Hours (Total)
1-9-2025	37. Date this description was prepared
38. Course Objectives: The course aims to: uncover the nature of modern geopolitical topics and their repercussions on the power of the state and the structure of its political entity, as well as follow up on the changes that occur on the political map of the world, not to mention reveal the role of geographical capabilities in drawing the external behavior of actors in the system of international relations.	

**39. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Personal observation and written test</b>	<b>Reading emails and passages</b>	<b>International student</b>	<b>2</b>	<b>First</b>
<b>Reading fluency</b>	<b>Reading Comprehension</b>	<b>Effective Reading</b>	<b>2</b>	<b>The second</b>
<b>Writing a composition</b>	<b>Writing strategies</b>	<b>A Host Family</b>	<b>2</b>	<b>The third</b>
<b>Personal observation and written test</b>	<b>Reading emails and passages</b>	<b>Where in the world</b>	<b>2</b>	<b>Fourth</b>
<b>Writing a composition</b>	<b>Writing strategies</b>	<b>My country</b>	<b>2</b>	<b>Fifth</b>
<b>Reading fluency</b>	<b>Reading Comprehension</b>	<b>News Articles</b>	<b>2</b>	<b>Sixth</b>
<b>Writing a composition</b>	<b>Writing strategies</b>	<b>Mistaken identity</b>	<b>2</b>	<b>Seventh</b>
<b>Reading fluency</b>	<b>Reading Comprehension</b>	<b>Modern technology</b>	<b>2</b>	<b>Eighth</b>
<b>Reading fluency</b>	<b>Reading fluency</b>	<b>Conferences and visits</b>	<b>2</b>	<b>Ninth</b>
<b>Writing a composition</b>	<b>Writing strategies</b>	<b>Invitations</b>	<b>2</b>	<b>Tenth</b>
<b>Listening skill</b>	<b>Listening</b>	<b>Moving on</b>	<b>2</b>	<b>Eleventh</b>
<b>Speaking skill</b>	<b>Speaking</b>	<b>Introduction</b>	<b>2</b>	<b>XII</b>
<b>Listening skills</b>	<b>Listening</b>	<b>Island states</b>	<b>2</b>	<b>Thirteenth</b>
<b>Speaking skills</b>	<b>Speaking</b>	<b>Talking about countries</b>	<b>2</b>	<b>Fourteenth</b>
<b>Speaking skills</b>	<b>Speaking</b>	<b>Careers in the media</b>	<b>2</b>	<b>Fifteenth</b>

**40. Infrastructure**

<b>Academic skills level 2</b>	<b>7- Required Textbooks</b>
	<b>8- Primary References</b>

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	37.Educational Institution
Department of Geography	38.Scientific Department/Center
Contemporary Population Studies	39.Name of the academic or professional program
Masters	40.Name of Final Certificate
First Course	41.Academic System : Annual/Courses/Other
Academic Accreditation Program	42.Accredited Accreditation Program
	43.Other External Influences
1-9-2025	44.Description Preparation Date
<p><b>45. Objectives of the Academic Program: This course for the first semester aims to identify the concepts of population and the philosophical backgrounds of each of them, and demographic characteristics, and to provide the student with the experience of analysis and interpretation of population geographical phenomena and attention to contemporary population problems related to growth, migrations, and others and their relationship to population planning.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	41. Educational Institution
Department of Geography	42. Scientific Department/Center
Contemporary Population Studies	43. Course Name/Code
My class (in-person)	44. Available Forms of Attendance
2025-2026	45. Semester/Year
30 hours	46. Number of Hours (Total)
1-9-2025	47. Date this description was prepared
48. Course Objectives: The course aims to: uncover the nature of contemporary population issues, population growth, scientific opinions related to it, and population problems related to it, and follow up on the changes that occur on the world demographic map, their causes, and the impact of geographical phenomena on them.	

#### 49. Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Vocabulary of the Subject, Concepts and Methods of Population Studies and Data Sources in it</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geographical distribution of the population (types, measures , factors affecting it, patterns, problems caused by it)</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The composition of the population is understood and its types (age, qualitative, environmental, economic, educational, religious, marital...)</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Population fertility (concept, methods of measurement, factors affecting it, patterns)</b>	<b>2</b>	<b>Fourt h</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Population Growth (Concept, Measures, and Theories)</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Mortality (its scales, factors influencing it)</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Spatial movement (migration) of the population (its concept, types, methods of measurement, causes, factors affecting it, and its implications)</b>	<b>2</b>	<b>Seven th</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Population policy (its concept, types, principles, objectives)</b>	<b>2</b>	<b>Eight h</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Population (natural) theories</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Population Theories (Economic, Social)</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Population Problem and Its Dimensions (Economic, Social)</b>	<b>2</b>	<b>Eleve nth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Urban Growth: Its Causes and Problems</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The problem of food security (its concept, causes, manifestations, implications, solutions)</b>	<b>2</b>	<b>Thirt eenth</b>

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Problem of the Water Crisis and its Impact on the Population (The Marshes of Southern Iraq as a Model)	2	Fourt eent
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Impact of Population Growth on Environmental Pollution and Global Warming	2	Fiftee nth

#### 50. Infrastructure

<b>No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program</b>	<b>9- Required Textbooks</b>
<p>1- Fathi Abu Ayana, Population Geography: Foundations and Applications, 4th Edition, Dar Al-Maarifa University, Alexandria, 1993. .</p> <p>2- Abbas Fadel Al-Saadi, Geography of Population, Vol. 1 and No. 2, 2000 .</p> <p>3- Ahmed Ali Ismail, Foundations of Demography, 8th Edition, Dar Al-Thaqafa, Cairo, 1997.</p> <p>4- Abd Ali Al-Khafaf, Geography of Population: General Foundations, 2nd Edition, Dar Al-Fikr forPrinting, Publishing and Distribution, Amman , 2007.</p> <p>5- Taha Hammadi Al-Hadithi, Geography of Population, 3rd Edition , University of Mosul, 2011.</p>	<b>10-Primary References</b>

### Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities.**

Muthanna University / College of Education for Humanities	46.Educational Institution
Department of Geography	47.Scientific Department/Center
City morphology	48.Name of the academic or professional program (name of the course or course)
Masters	49.Name of the final certificate (Master's - PhD)

First Course	50. Academic System : Annual/Courses/Other
Academic Accreditation Program	51. Accredited Accreditation Program
	52. Other External Influences
1-9-2025	53. Description Preparation Date
<p><b>54. Objectives of the Academic Program:</b></p> <ol style="list-style-type: none"> <li><b>1. Developing the capabilities of postgraduate students in aspects of city morphology.</b></li> <li><b>2. Opening the horizons of academic program outputs from holders of higher degrees in the labor market.</b></li> </ol>	

## Course Description Form

### Course Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities.**

Muthanna University / College of Education for Humanities	51. Educational Institution
Department of Geography	52. Scientific Department/Center
City morphology	53. Course Name/Code
My class (in-person)	54. Available Forms of Attendance
2025-2026	55. Semester/Year
. 30 hours	56. Number of Hours ( Total)
1-9-2025	57. Date this description was prepared
58. Course Objectives: The course aims to: 1. Understand what the morphology of the city is. 2. Analyze and interpret the spatial relationships between the elements of the city's morphology. 3. Assess the environmental impact resulting from the interactions of the elements of the city's morphology. 4. Development potential and sustainable development of the elements of the city's morphology.	

## 59. Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
Lecture, Discussion and Interrogation	Physical + Electronic	The urban phenomenon (city), its concept, its characteristics, the concept of the morphology of the city .	2	First
Lecture, Discussion and Interrogation	Physical + Electronic	Elements of the city's morphology (city plan , urban fabric )	2	The second
Lecture, Discussion and Interrogation	Physical + Electronic	Elements of the city's morphology (urban land uses) and the dynamics of the relationship between them	2	The third
Lecture, Discussion and Interrogation	Physical + Electronic	Urbanization and urbanization and their role in shaping the morphology of the city.	2	Fourth
Lecture, Discussion and Interrogation	Physical + Electronic	Theories of the Internal Structure of Cities.	2	Fifth
Lecture, Discussion and Interrogation	Physical + Electronic	Geographical Factors Affecting the Morphology of the City	2	Sixth
Lecture, Discussion and Interrogation	Physical + Electronic	The Sustainable City, Smart City and the Uses of Artificial Intelligence	2	Seventh
Lecture, Discussion and Interrogation	Physical + Electronic	Basic Plan and Urban Land Use Map	2	Eighth
Lecture, Discussion and Interrogation	Physical + Electronic	Urban heritage; its morphological characteristics, the problems facing it, and ways to protect it.	2	Ninth
Lecture, Discussion and Interrogation	Physical + Electronic	The Relationship between the City and its Region (Urban System)	2	Tenth
Lecture, Discussion and Interrogation	Physical + Electronic	Social characteristics of the inhabitants of the city and its region (urban development and rural urbanization)	2	Eleventh
Lecture, Discussion and Interrogation	Physical + Electronic	A comparison between the morphology of the western city and the Arab city.	2	XII
Lecture, Discussion and Interrogation	Physical + Electronic	Examples of problems facing city formation and organization (population growth, slums)	2	Thirteenth
Lecture, Discussion and Interrogation	Physical + Electronic	Geographical concepts related to the city and its morphology (function and use, activities and events)	2	Fourteenth

<b>Lecture, Discussion and Interrogation</b>	<b>Physical + Electronic</b>	<b>Overview</b>	<b>2</b>	<b>Fifteenth</b>
60. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		11- Required Textbooks		
1- Sabri Fares Al-Hiti, Geography of Cities. 2- Othman Muhammad Ghoneim, Geography of Cities. 3- Jamal Hamdan, Geography of Cities.		12- Primary References		

## **Academic Program Description**

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	55.Educational Institution
Department of Geography	56.Scientific Department/Center
Recent Trends in Geopolitics	57.Name of the academic or professional program
Masters	58.Name of Final Certificate
Course	59.Academic System : Annual/Courses/Other
Academic Accreditation Program	60.Accredited Accreditation Program
	61.Other External Influences
1-9-2025	62.Description Preparation Date

**63. Objectives of the Academic Program: This course for the first semester aims to study the modern trends in geopolitics by reviewing their nature, research trends, and the scientific addition achieved from them.**

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	61. Educational Institution
Department of Geography	62. Scientific Department/Center
Recent Trends in Geopolitics	63. Course Name/Code
My class (in-person)	64. Available Forms of Attendance
2025-2026	65. Semester/Year
30 hours	66. Number of Hours (Total)
1-9-2025	67. Date this description was prepared
68. Course Objectives: The course aims to: uncover the nature of modern geopolitical topics and their repercussions on the power of the state and the structure of its political entity, as well as follow up on the changes that occur on the political map of the world, not to mention reveal the role of geographical capabilities in drawing the external behavior of actors in the system of international relations.	

**69. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Concept of Political Geography: What It Is and Its Related Concepts</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Corrosive Democracy: Its Concept and Geopolitical Applications</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Polarization and its geopolitical applications</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Authoritarian Technocracy and Digital Tyranny</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Digital Citizenship and its Geopolitical Applications</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geopolitics Economic Identity</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The War of Narratives and Its Geopolitical Applications</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Security of Economic Value and its Geopolitical Applications</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Technological nationalism and its geopolitical applications</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The War of Economic Subsidies and Its Geopolitical Applications</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Acute force and its geopolitical applications</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Digital Geopolitics Foundations and Applications</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Circular economy geopolitics</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Age of Geopolitical Anxiety</b>	<b>2</b>	<b>Fourteenth</b>

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Space Security and its Geostrategic Applications	2	Fifteenth
70. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		13- Required Textbooks		
		14- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	1. Educational Institution
Department of Geography	2. Scientific Department/Center
<b>Applied hydrology</b>	3. Name of the academic or professional program (name of the course or course)
Ph.D.	4. Name of the final certificate (Master's - PhD)
First Course	5. Academic System : Annual/Courses/Other
Academic Accreditation Program	6. Accredited Accreditation Program
	7. Other External Influences
1-9-2025	8. Description Preparation Date
<p><b>9. Academic Program Objectives : This first-semester course aims to:</b>  <b>Training PhD students on the basic skills and methods of writing a doctoral dissertation in line with modern research perceptions</b>  <b>Make students able to understand and understand the vocabulary of this subject.</b></p>	

## Course Description Form

### Course Description

**This course description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve, demonstrating whether he has made the most of the available learning opportunities and should link them to the program description**

Muthanna University / College of Education for Humanities	1. Educational Institution
Department of Geography	2. Scientific Department/Center
<b>Applied hydrology</b>	3. Course Name/Code
My class (in-person)	4. Available Forms of Attendance
2025-2026	5. Semester/Year
30 hours	6. Number of Hours ( Total)
1-9-2025	7. Date this description was prepared
8. Course Objectives: The course aims to: This course for the first semester aims to train students at the doctoral level on the skills and methods necessary for the number of doctoral theses according to modern research perceptions.	

## 9. Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>River Deltaws</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Seabed Geomorphology</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Seawater Properties</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Dams and Reservoirs</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Surface Water and Groundwater</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Water Budgeting</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Offshore Islands and Lakes</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Marine Current</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Marine coast shapes</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Shipping lanes and canals</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>International National Waters</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Earthquakes and tsunamis</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Rivers and their discharges</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>River Basin Movometric</b>	<b>2</b>	<b>Fourteenth</b>

Written Exam, Research Requirement and Translation		Water Harvesting	2	Fifteenth
10. Infrastructure				
Hydrology. Mahdi Al-Sahaf and Wafiq Al-Khashab Seas and oceans.N. Louvre Plédier Geographical Materials Aquatic Safaa Al-Asadi The Internet		1- Required Textbooks		
A group of lectures prepared by the professor of the subject		2- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	10.Educational Institution
Department of Geography	11.Scientific Department/Center
Environmental Problems	12.Name of the academic or professional program
Ph.D.	13.Name of Final Certificate
First Course	14.Academic System : Annual/Courses/Other
Academic Accreditation Program	15.Accredited Accreditation Program
	16.Other External Influences

1-9-2025

17. Description  
Preparation Date

**18. Objectives of the Academic Program: This course for the first semester aims to study the main problems that afflict the natural environment and the human environment and identify the most prominent solutions to address them.**

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	11. Educational Institution
Department of Geography	12. Scientific Department/Center
<b>Environmental Problems</b>	13. Course Name/Code
My class (in-person)	14. Available Forms of Attendance
2025 - 2026	15. Semester/Year
30 hours	16. Number of Hours (Total)
1-9-2025	17. Date this description was prepared
18. Course Objectives: The course aims to: Introduce the most important geophysical and human factors behind environmental problems, analyze the dimensions of environmental problems spatially and temporally, identify modern ways to address them and reduce their effects on the vital community in a place.	

## 19. Course Structure:

Evaluation Method	Teaching Method	Module Name / or Subject	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	General Lecture (Introduction to the Study of Environmental Problems)	2	First
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Geographical Pillars of the Study of Ecology, Ecology and Ecosystem, Environmental Competence, Environmental Problem and the Relationship of Geography to Ecology	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Non-life factors affecting the environment – Liebig's law of the minimum and the law of the upper limit and the combination of the two laws	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental Hazards and the Concept of Environmental Impact / (Environmental Hazards, Opinions and Concepts on Environmental Hazards, Environmental Hazard Management)	2	Four th
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	(Concept of Environmental Impact Assessment, Environmental Impact Factors, Environmental Impact Methodology)	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental Succession (Water Succession, Succession in the Dry Environment)	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental Problems, Focusing on the Problem of Environmental Pollution (Concept, Foundations, Degrees, Classification of Pollution)	2	Seven th
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Problem of Soil Pollution with an Application to Muthanna Governorate	2	Eight h
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The problem of air pollution with an application on Muthanna Governorate	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Water footprint (with emphasis on Muthanna Governorate or Iraq)	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The problem of food contamination (applied to Iraq or Muthanna Governorate)	2	Eleve nth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Problem of Radioactive Pollution (Application to Iraq or Muthanna Governorate)	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The problem of sewage pollution (applied to Iraq or Muthanna Governorate)	2	Thirt eenth

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental Conservation (Environmental Awareness)	2	Fourt eentth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The Role of Science Environmental Legislation in Preserving the Environment	2	Fiftee nth

## 20. Infrastructure

<b>No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program</b>	<b>3- Required Textbooks</b>
<b>1- Haitham Ahmed, Hassan Shehab, Ecology - The Theoretical Part, Directorate of Books and Government Publications, Syria, Damascus, 2006.</b> <b>2- Adnan Yassin Muhammad Al-Quraishi, Fundamentals of Environmental Pollution, Dar Al-Kitab Al-Thaqafi, Jordan, 2021.</b>	<b>4- Primary References</b>

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	19.Educational Institution
Department of Geography	20.Scientific Department/Center
Environmental Geomorphology	21.Name of the academic or professional program
PhD	22.Name of Final Certificate
First Course	23.Academic System : Annual/Courses/Other
Academic Accreditation Program	24.Accredited Accreditation Program

	25. Other External Influences
1-9-2025	26. Description Preparation Date
<b>27. Objectives of the Academic Program: This course for the first semester aims to study environmental geomorphology by reviewing geomorphic factors and processes, including the risks that threaten the population and their economic and social activities in various natural environments, as well as finding solutions to avoid these problems.</b>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	21. Educational Institution
Department of Geography	22. Scientific Department/Center
Environmental Geomorphology	23. Course Name/Code
My class (in-person)	24. Available Forms of Attendance
2025-2026	25. Semester/Year
30 hours	26. Number of Hours (Total)
1-9-2025	27. Date this description was prepared
28. Course Objectives: The course aims to: Detect the risks that beset human beings due to the close relationship between geomorphic processes and human activities, as well as the impact of environmental factors in activating geomorphic factors and processes that can pose a danger to humans and their property.	

## 29. Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Concept of Environmental Geomorphology and its Fields</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geomorphology and Environmental Impact Assessment</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geomorphology in Environmental Management and Community Development</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Urban Geomorphology</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Soil erosion and salinization</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Land Degradation and Food Security Challenges</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Land Degradation and its Role in the Problem of Poverty and Marginalization</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Environmental Impacts of Floods of Irrigation and Puncture Projects</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Concentrations of Heavy Metals and Pesticides in Agricultural Soils and Plants</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Movement of Materials and Their Environmental Impacts</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Tectonic hazards and their environmental impacts (earthquakes in Turkey as a model).</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Engineering geomorphology and the change of the earth's face.</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Land Valuation for Land Units</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Management of saline lands in arid and semi-arid regions.</b>	<b>2</b>	<b>Fourteenth</b>

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

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	28.Educational Institution
Department of Geography	29.Scientific Department/Center
Research Skills and Seminars	30.Name of the academic or professional program (name of the course or course)
PhD	31.Name of the final certificate (Master's - PhD)
First Course	32.Academic System : Annual/Courses/Other
Academic Accreditation Program	33.Accredited Accreditation Program
	34.Other External Influences

1-9-2025

35.Description  
Preparation Date

**Objectives of the Academic Program:** It aims to understand the skills of scientific research and the preparation of university theses and theses. In correct scientific ways.

## Course Description Form

### Course Description

This course description provides a concise summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve

Demonstrate whether they have made the most of the available learning opportunities. It must be linked to a description

Program.

Muthanna University / College of Education for Humanities	31. Educational Institution
Department of Geography	32. Scientific Department/Center
Scientific Research Skills and Discussion Seminars	33. Course Name/Code
My class (in-person)	34. Available Forms of Attendance
2025-2026	35. Semester/Year
30 hours	36. Number of Hours ( Total)
1-9-2025	37. Date this description was prepared
Course Objectives: The course aims to: uncover the broad steps that regulate scientific research and indicate the sound methodological foundations of research and the conditions and obligations of originality and innovation in light of modern scientific and technical developments. 38.	

### 39. Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Nature of Geography	2	<b>First</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Scientific research is understandable , its importance is characteristics	2	<b>The second</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Types and Methods of Scientific Research	2	<b>The third</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	The evolution of scientific research from traditional methods to Smart Thinking	2	<b>Fourth</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Contemporary challenges that have exposed the limits of curricula Traditional	2	<b>Fifth</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	The Role of Artificial Intelligence and Digital Transformations in the Evolution of Scientific Research	2	<b>Sixth</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Scientific Research in the Age of Big Data and Systems Adaptive	2	<b>Seventh</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Characteristics of Smart Research Methods Flexibility , Interaction , Pluralism	2	<b>Eighth</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Elements of Building Smart Research Methods	2	<b>Ninth</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Networked Thinking and the Interactive Approach : The End of the Perspective Linear for Research	2	<b>Tenth</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Intelligent Hybrid Methodologies: Quantitative and Qualitative Integration Contextual awareness	2	<b>Eleventh</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	New Tools in Scientific Research : Artificial Intelligence Predictive Analysis , Simulation	2	<b>XII</b>
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Adapting to Changing Environments: How to Build a Curriculum That Doesn't Age	2	<b>Thirteenth</b>

Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Smart Research Approaches and Continuing Education for Researchers	2	Fourteenth
Written and Oral Exam and performance	Lecture and interrogation Discussion and dialogue	Towards Building Contemporary Theories: Features of the Research Future	2	Fifteenth

40. Infrastructure	
	7- Required Textbooks
1- Foundations and Ethics of Scientific Research: Prof. Dr. Hussein Al-Ziadi 2- Smart Research Methods, Dr. Faris Al-Bayati 3- Scientific Research Methods. Dr. Mohammed Sarhan Al-Mahmoudi	8- Primary References

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	36. Educational Institution
Department of Geography	37. Scientific Department/Center
Studies in Geographical Thought	38. Name of the academic or professional program
Ph.D.	39. Name of Final Certificate
First Course	40. Academic System : Annual/Courses/Other

Academic Accreditation Program	41. Accredited Accreditation Program
	42. Other External Influences
1-9-2025	43. Description Preparation Date
<p><b>44. Academic Program Objectives: This course for the first semester aims to identify the philosophical perspective of geography and the dimensions and limits of geography while tracing the intellectual diligence of the civilizations of the ancient and medieval world, as well as focusing on the role of modern schools in the development of geography, tracing the characteristics of contemporary thought, and geographical decision-making.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	41. Educational Institution
Department of Geography	42. Scientific Department/Center
Studies in Geographical Thought	43. Course Name/Code
My class (in-person)	44. Available Forms of Attendance
2025-2026	45. Semester/Year
30 hours	46. Number of Hours (Total)
1-9-2025	47. Date this description was prepared
48. Course Objectives: The course aims to: reveal the importance of geography, its philosophy, the role of space and time in it, as well as tracing the regional importance of place and the impact of modern technologies on the essence of the transformation in geographical thought, then the role of geography and geography in crisis management and decision-making.	

**49. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>A philosophical perspective of geography and geographical thought</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The philosophy of the gravein its dimensions and limits</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Space, Time and Building Geographical Personality</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geographical Ijtihad in Ancient Civilizations</b>	<b>2</b>	<b>Fourt h</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geographical Jurisprudence in the Middle Ages</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geographical intellectual diligence in the product of the Ahl al-Bayt peace be upon them</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Movement of Geographical Discoveries and its Impact on Geographical Knowledge</b>	<b>2</b>	<b>Seven th</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Modern Geographical Jurisprudence (German School and French School)</b>	<b>2</b>	<b>Eight h</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Modern Geographical Diligence (British School and American School)</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Major Schools of Geographical Philosophy</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Intellectual Symmetry of Spatial Science among Geographers</b>	<b>2</b>	<b>Eleve nth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Location and regional concept</b>	<b>2</b>	<b>XII</b>

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	<b>Characteristics of Contemporary Geographical Thought</b>	2	Thirt eent
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	<b>Modern Technologies and the Motivations of Innovation in Contemporary Geographical Thought</b>	2	Fourt eent
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	<b>Geographical Decision and Crisis Management in the Local Environment</b>	2	Fiftee nth

#### 50. Infrastructure

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	9- Required Textbooks
<ul style="list-style-type: none"> <li>- Gamal Hamdan, The Character of Egypt: A Study in the Genius of Place, 1976.</li> <li>- Harthorn, Nature of Geography, 1984.</li> <li style="padding-left: 40px;">- Safouh Khair, Geography: Methods and Objectives, 2001.</li> <li>- Mohsen Abdul Sahib Al-Muzaffar, Philosophy of Spatial Science, 2005.</li> <li>- Mohamed Ahmed Al-Samarrai, The Philosophy of Place in Geographical Thought, 2015.</li> <li>- Mohamed Ahmed Al-Samarrai, The Geographical Personality The Genius of Man and Place, 2022.</li> </ul>	10- Primary References

### Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	45. Educational Institution
Department of Geography	46. Scientific Department/Center
Philosophy of Education	47. Name of the academic or professional program
Ph.D.	48. Name of Final Certificate

First Course	49. Academic System : Annual/Courses/Other
Academic Accreditation Program	50. Accredited Accreditation Program
	51. Other External Influences
1-9-2025	52. Description Preparation Date
<p><b>53. Objectives of the Academic Program: This course for the first semester aims to study the philosophical trends in the philosophy of university teaching and the ethics of the university teaching profession for the purpose of developing an desired educational philosophy for education that is embodied in the personality of the professor and the university student through the adoption of educational strategies and models based on the activities that originate from the student and under the supervision and guidance of the university professor.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	51. Educational Institution
Department of Geography	52. Scientific Department/Center
Philosophy of Education	53. Course Name/Code
My class (in-person)	54. Available Forms of Attendance
2025-2026	55. Semester/Year
30 hours	56. Number of Hours (Total)
1-9-2025	57. Date this description was prepared
58. Course Objectives: The course aims to: reveal the nature of philosophical educational topics and their repercussions in demonstrating the influential educational philosophy that contributes to building and consolidating philosophical educational opinions that help to adopt a pioneering philosophy emanating from the values and customs of the society that leads to the creation of a leadership figure that advances the youth through guidance and guidance to adopt an independent philosophy that is characteristic of our Arab-Islamic society, not to mention revealing the role of potentials. available in drawing the behavior that this philosophy should be in our educational institutions.	

<b>59. Course Structure:</b>				
<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Educational Concepts + The Concept of Education, Its Characteristics, Objectives and Theories</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Philosophy of Education Meaning, Concept and Semantics</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>General and Educational Features of Some Schools of Ancient and Contemporary Philosophy of Education</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Roles of Philosophy of Education in Designing Educational Systems</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Philosophical Readings on the Characteristics, Specifications and Characteristics of the Professor and the University Student</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Philosophy of Iraqi Education Goals and Objectives</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Ethics of University Teaching</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The needs of university education into an educational philosophy</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Philosophy of Developing Religious Values in the University Community</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>A University Teaching Philosophy Methods and Methods</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research</b>	<b>Lecture, questioning and discussion</b>	<b>The Philosophy of Classroom Management and the Educational Process in University Teaching</b>	<b>2</b>	<b>Eleventh</b>

<b>Requirement and Translation</b>				
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Philosophy of Effective Teaching in University Teaching</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Total Quality Management Philosophy in University Teaching</b>	<b>2</b>	<b>Thirt eenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Philosophy of Educational Counseling in University Teaching</b>	<b>2</b>	<b>Fourt eenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Philosophy of Evaluation and Measurement in University Teaching</b>	<b>2</b>	<b>Fiftee nth</b>

#### 60. Infrastructure

Philosophy of Education in Teaching and University , Dr. Saeed Jassim Al-Asadi , 2014 , University of Surra Foundations of Education, Dr. Faisal Munshid Al-Shuwaili, 20145	11- Required Textbooks
1- Ali Rashid, University and University Teaching, Al-Hilal House and Library, Beirut, 2007. 2- Abdel Moati Ali, Introductions to Philosophy, Dar Al-Nahda Al-Arabi, Beirut, 1st Edition, 1982.	12- Primary References

### Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	54.Educational Institution
Department of Geography	55.Scientific Department/Center

English	56.Name of the academic or professional program
Ph.D.	57.Name of Final Certificate
First Course	58.Academic System : Annual/Courses/Other
Academic Accreditation Program	59.Accredited Accreditation Program
	60.Other External Influences
1-9-2025	61.Description Preparation Date
<p><b>62. Objectives of the Academic Program: This course for the first semester aims to study the modern trends in geopolitics by reviewing their nature, research trends, and the scientific addition achieved from them.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	61. Educational Institution
Department of Geography	62. Scientific Department/Center
<b>English</b>	63. Course Name/Code
My class (in-person)	64. Available Forms of Attendance
2025-2026	65. Semester/Year
30 hours	66. Number of Hours (Total)
1-9-2025	67. Date this description was prepared
68. Course Objectives: The course aims to: uncover the nature of modern geopolitical topics and their repercussions on the power of the state and the structure of its political entity, as well as follow up on the changes that occur on the political map of the world, not to mention reveal the role of geographical capabilities in drawing the external behavior of actors in the system of international relations.	

**69. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Personal observation and written test</b>	<b>Reading passages</b>	<b>Education and Learning</b>	<b>2</b>	<b>First</b>
<b>Reading fluency</b>	<b>Reading Comprehension</b>	<b>The UK Education System</b>	<b>2</b>	<b>The second</b>
<b>Writing a composition</b>	<b>Writing strategies</b>	<b>Comparing and Contrasting</b>	<b>2</b>	<b>The third</b>
<b>Personal observation and written test</b>	<b>Reading emails and passages</b>	<b>Innovations in health and medicine</b>	<b>2</b>	<b>Fourth</b>
<b>Writing a composition</b>	<b>Writing strategies</b>	<b>A new vaccine</b>	<b>2</b>	<b>Fifth</b>
<b>Reading fluency</b>	<b>Reading Comprehension</b>	<b>Music Used as a healing therapy</b>	<b>2</b>	<b>Sixth</b>
<b>Writing a composition</b>	<b>Writing strategies</b>	<b>Rephrasing</b>	<b>2</b>	<b>Seventh</b>
<b>Reading fluency</b>	<b>Reading Comprehension</b>	<b>Focus on health</b>	<b>2</b>	<b>Eighth</b>
<b>Reading fluency</b>	<b>Reading fluency</b>	<b>Urban planning</b>	<b>2</b>	<b>Ninth</b>
<b>Writing a composition</b>	<b>Writing strategies</b>	<b>Finding information</b>	<b>2</b>	<b>Tenth</b>
<b>Listening skill</b>	<b>Listening</b>	<b>Water, food and energy</b>	<b>2</b>	<b>Eleventh</b>
<b>Speaking skill</b>	<b>Speaking</b>	<b>introductions and conclusions</b>	<b>2</b>	<b>XII</b>
<b>Listening skills</b>	<b>Listening</b>	<b>Free trade and fair trade</b>	<b>2</b>	<b>Thirteenth</b>
<b>Speaking skills</b>	<b>Speaking</b>	<b>globalization</b>	<b>2</b>	<b>Fourteenth</b>
<b>Speaking skills</b>	<b>Speaking</b>	<b>Certainty and uncertainty</b>	<b>2</b>	<b>Fifteenth</b>

**70. Infrastructure**

Academic skills level 3

13- Required Textbooks

14- Primary References

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	1. Educational Institution
Department of Geography	2. Scientific Department/Center
Water Resources	3. Name of the academic or professional program
Masters	4. Name of Final Certificate
Second course	5. Academic System : Annual/Courses/Other
Academic Accreditation Program	6. Accredited Accreditation Program
	7. Other External Influences
18-1-2026	8. Description Preparation Date
<p><b>9. Objectives of the Academic Program:</b>  <b>Closely understanding the importance of water resources and its reflection on all economic activities related to it</b></p>	

# Course Description Form

## Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	1. Educational Institution
Department of Geography	2. Scientific Department/Center
Water Resources	3. Course Name/Code
My class (in-person)	4. Available Forms of Attendance
2025-2026	5. Semester/Year
30 hours	6. Number of Hours ( Total)
18-1-2026	7. Date this description was prepared
Course Objectives: The course aims to make students able to know what is the science of hydrological water resources, its branches, its importance and its impact on people's lives.	

<b>8. Course Structure:</b>				
<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watch es</b>	<b>The week</b>
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Hydrological Cycle	2	First
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Types of rainfall	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Marine coast shapes	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Seabed topography	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Rivers and their geomorphological discharges	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Surface water problems	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Ports and Ports	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Marine Resources	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Hurricanes and Marine Currents	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Wildlife	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Regional and International Waters	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Groundwater and Groundwater	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Theories of the formation of marshes	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Passages and Marine Channels	2	Fourteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Exam	2	Fifteenth

## 9. Infrastructure

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

**1- Required Textbooks**

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	10.Educational Institution
Department of Geography	11.Scientific Department/Center
Urban Development	12.Name of the academic or professional program
Masters	13.Name of Final Certificate
Second course	14.Academic System : Annual/Courses/Other
Academic Accreditation Program	15.Accredited Accreditation Program
	16.Other External Influences
17-1-2026	17.Description Preparation Date
<p><b>18. Objectives of the Academic Program: This course for the first semester aims to study the concept of development in general and urban development in particular, and to know the history of development development, what are the research methods in it, and what are its most important indicators).</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	10. Educational Institution
Department of Geography	11. Scientific Department/Center
Urban Development	12. Course Name/Code
My class (in-person)	13. Available Forms of Attendance
2025-2026	14. Semester/Year
30 hours	15. Number of Hours (Total)
17-1-2026	16. Date this description was prepared
17. Course Objectives: The course aims to : reveal the history of the development of urban development, the reasons for interest in it, and to know its most important characteristics and what development policies should be followed.	

<b>18. Course Structure:</b>				
<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Overview of Urban Land Use	2	First
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The concept of development, the history of its development, and the difference between it and development	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	The concept of urban development, its objectives and characteristics	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Urban Environment and Urban Degradation	2	Fourt h
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Urban Renewal and Urban Development Indicators	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Community Indicators, Educational- Health-Recreational	2	Sixth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Infrastructure Indicators- Water0Electricity-Sanitation	2	Seven th
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Population Indicators - Housing Disability Concept and Causes	2	Eight h
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Environmental Indicators – Percentage of Treated Water – Waste Disposal	2	Ninth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Visual Pollution	2	Tenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Economic Indicators – Urban Poverty	2	Eleve nth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Unemployment - Smart Cities	2	XII
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Urban Rehabilitation – Urban Resilience	2	Thirt eenth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Urban and Spatial Development Policies in Iraq	2	Fourt eenth

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	International Experiences in Urban Development	2	Fifteen nth
19. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		3- Required Textbooks		
1- 1- Fouad Bin Ghadban, Sustainable Cities and Urban Project, Safaa Publishing and Distribution House, Amman, 2014. 2-Khalaf Hussain Al-Dulaimi, Thaer Shaker Al-Hiti, Urban Management Strategies, Safaa Publishing and Distribution-Amman, 2018.		4- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	19.Educational Institution
Department of Geography	20.Scientific Department/Center
Ecosystems	21.Name of the academic or professional program
Masters	22.Name of Final Certificate
Second course	23.Academic System : Annual/Courses/Othe r
Academic Accreditation Program	24.Accredited Accreditation Program
	25.Other External Influences

18-1-2026

26. Description  
Preparation Date

**27. Academic Program Objectives:** This course for the second semester aims to study the main problems that these environmental systems suffer from and identify the most prominent solutions to address them.

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	20. Educational Institution
Department of Geography	21. Scientific Department/Center
Ecosystems	22. Course Name/Code
My class (in-person)	23. Available Forms of Attendance
2025-2026	24. Semester/Year
30 hours	25. Number of Hours (Total)
18-1-2026	26. Date this description was prepared
27. Course Objectives: The course aims to introduce the most important natural and human geographical factors behind the problems facing ecosystems, analyze the dimensions of these problems spatially and temporally, and identify modern ways to address them and reduce their effects on the vital community of these ecosystems, such as the water, aerodynamic, rocky, food systems, and biosystems.	

**28. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>General lecture on geography, environment and the main vocabulary of the subject</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The concept of ecology, ecology, ecosystem, environmental problem and its types, and the relationship of the environment to geography</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The problem of pollution and disruption of the ecosystem</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Air Quality System with Application to Iraq</b>	<b>2</b>	<b>Fourt h</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Water Quality System with Application to Iraq</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Soil Ecosystem and its Degradation Factors with Application to Iraq</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Noise problem with an app on Iraq</b>	<b>2</b>	<b>Seven th</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Semester exam</b>	<b>2</b>	<b>Eight h</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Solid waste and its impact on environmental systems (with emphasis on Iraq)</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Environmental Disasters and Their Effects on Environmental Systems (with Emphasis on Iraq)</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Slums and the Degradation of Environmental Systems with an Application to Iraq</b>	<b>2</b>	<b>Eleve nth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Nature Reserves and Their Role in Environmental Balance with an Application to Iraq</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Depletion of natural resources and their impact on ecosystems with an application to Iraq</b>	<b>2</b>	<b>Thirt eenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Environmental awareness and its role in preserving ecosystems (with emphasis on Iraq)</b>	<b>2</b>	<b>Fourt eenth</b>

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Discussion of students' activities at the end of the course	2	Fifteen nth
29. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program			5- Required Textbooks	
1- Haitham Ahmed, Hassan Shehab, Ecology - The Theoretical Part, Directorate of Books and Government Publications, Syria, Damascus, 2006. 2- Adnan Yassin Muhammad Al-Quraishi, Fundamentals of Environmental Pollution, Dar Al-Kitab Al-Thaqafi, Jordan, 2021.			6- Primary References	

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	28.Educational Institution
Department of Geography	29.Scientific Department/Center
Renewables	30.Name of the academic or professional program
Masters	31.Name of Final Certificate
Second course	32.Academic System : Annual/Courses/Othe r
Academic Accreditation Program	33.Accredited Accreditation Program

	34. Other External Influences
18-1-2026	35. Description Preparation Date
<p><b>36. Objectives of the Academic Program:</b> This course for the second semester aims to study renewable energy sources within the geography of energy by reviewing their nature, characteristics, and modern scientific trends in the study of the sustainability of renewable energy, and the search for solutions for the use of clean energy and the scientific addition achieved from its study).</p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	30. Educational Institution
Department of Geography	31. Scientific Department/Center
Renewables	32. Course Name/Code
My class (in-person)	33. Available Forms of Attendance
2025-2026	34. Semester/Year
30 hours	35. Number of Hours (Total)
18-1-2026	36. Date this description was prepared
37. Course Objectives: The course aims to study the types and sources of renewable energy and modern technologies to invest in them and how to benefit from them in the future to fill the energy shortage, get rid of fossil fuel problems, preserve the environment, achieve sustainable development of energy, and know the most important obstacles facing its investment.	

### 38. Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Wat ches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Renewable Energy: Characteristics and Types</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Stages of the historical development of renewables	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Geographical Components of Renewable Energy Projects	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Requirements for renewable energy projects	<b>2</b>	<b>Fourt h</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Solar Energy and its Investment Methods	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Wind Energy: Its Advantages and Ways of Investing	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Geothermal Energy	<b>2</b>	<b>Seven th</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Bioenergy	<b>2</b>	<b>Eight h</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Hydropower	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Integration of renewable energy with fossil energy	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	The Relationship between Renewable Energy and Sustainable Development	<b>2</b>	<b>Eleve nth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	The Role of Artificial Intelligence and Technologies in Renewable Energy Investment	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	The Role of Renewable Energy in Preserving the Environment	<b>2</b>	<b>Thirt eenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	The most important problems facing the use of renewable energy	<b>2</b>	<b>Fourt eenth</b>

<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	The possibility of implementing some renewable energy projects in Muthanna Governorate	<b>2</b>	<b>Fifteenth</b>
39. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		7- Required Textbooks		
1- Vladimir Kartsev, Pyotr Khazanovsky, translated by: Muhammad Al-Zayat, Thousands of Years of Energy, 1st Edition, 2005. 2- Mohamed Rafat, Ali Jamaan, Renewable Energy, 2nd Edition, 1998.		8- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	37.Educational Institution
Department of Geography	38.Scientific Department/Center
Learning Theories	39.Name of the academic or professional program
Masters	40.Name of Final Certificate
Second course	41.Academic System : Annual/Courses/Other
Academic Accreditation Program	42.Accredited Accreditation Program

	43. Other External Influences
18-1-2026	44. Description Preparation Date
<p><b>45. Objectives of the Academic Program: This course, which is dedicated to the second semester, aims to study the educational trends that have been brought by the theories of learning according to the educational opinions adopted by educators specialized in education and psychology for the purpose of developing effective teaching plans that are based on the learner's activity, taking into account the experiences and level of maturity of the learner to reach the desired goals of the educational process, which creates a generation that adopts scientific methods to reach its goal by adopting methods, methods, strategies and educational models based on activities. which comes from the learner, while the role of the teacher is to guide and guide)</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	40. Educational Institution
Department of Geography	41. Scientific Department/Center
Learning Theories	42. Course Name/Code
My class (in-person)	43. Available Forms of Attendance
2025-2026	44. Semester/Year
30 hours	45. Number of Hours (Total)
18-1-2026	46. Date this description was prepared
47. Course Objectives: The course aims to: reveal the nature of educational theories and their repercussions in demonstrating the laws that explain the effective educational methods, methods and strategies that contribute to reaching the desired educational goals by adopting the educational plans that these theories have employed in teaching and learning according to mental abilities and the level of maturity, not to mention revealing the possibilities that bring the desired educational behavior.	

**48. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Educational Concepts + Introduction to Theories, Types and Importance Pedagogically</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>My theory is the classical condition of Educator Pavlov</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Educator Skinner's Procedural Conditioning Theory</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The theory of trial and error by educator Thor Ndayek</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Educator Köhler's Theory of Cognitive Learning</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Theory of Meaningful Learning for Educator Özbel</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Cognitive Theory of Educator Bruner</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The theory of learning stages for educator Janier</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Theory of Analysis of the Educational Work of the Pedagogy of Piaget</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>For the educator where the biosphere theory</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Pandora's Social Learning Theory</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Learning theory by the ability to respond differently to the tutor</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>An Evaluation Dialogue on the Extent of Applying Theories in Teaching</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Building Teaching Plans as Employed by Learning Theories Practical Lecture</b>	<b>2</b>	<b>Fourteenth</b>

<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>End of course exam</b>	<b>2</b>	<b>Fifteen nth</b>
49. Infrastructure				
Learning Theories by Dr. Ahmed Zaki Saleh, Ain Shams University, 1983		9- Required Textbooks		
Al-Zaghoul, Emad of Learning Theories, Dar Al-Shorouk, Amman, Jordan, 2003		10- Primary References		

## **Academic Program Description**

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	46.Educational Institution
Department of Geography	47.Scientific Department/Center
Cybersecurity geopolitics	48.Name of the academic or professional program
Masters	49.Name of Final Certificate
Second course	50.Academic System : Annual/Courses/Other
Academic Accreditation Program	51.Accredited Accreditation Program

	52. Other External Influences
18-1-2026	53. Description Preparation Date
<p><b>54. Objectives of the Academic Program:</b></p> <ul style="list-style-type: none"> <li>• Analyze the interaction between geopolitics and cyberspace by understanding how states and international actors employ cybersecurity as a tool of influence and conflict in the international development, and its impact on reshaping the balance of power and international alliances.</li> <li>• Interpret the strategic dimensions of cybersecurity in national and international policies by studying the strategies of major and regional countries in protecting their digital infrastructure and linking them to concepts (sovereignty, deterrence, national security, and non-traditional conflicts).</li> <li>• Building the analytical and research capacities of postgraduate students in the field of geopolitical cyber threats by enabling them to assess cross-border risks, anticipate conflict scenarios and international cooperation in cyberspace, as well as enable them to make science-based policy proposals.</li> </ul>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	50. Educational Institution
Department of Geography	51. Scientific Department/Center
Cybersecurity geopolitics	52. Course Name/Code
My class (in-person)	53. Available Forms of Attendance
2025-2026	54. Semester/Year
30 hours	55. Number of Hours (Total)
18-1-2026	56. Date this description was prepared
57. Course Objectives: The course aims to: <ul style="list-style-type: none"><li>• <b>Delivering the scientific material to the students' minds easily and easily to make it easier for them to understand and comprehend it.</b></li><li>• <b>Helping students acquire specific information, knowledge, skills, and experiences in the field of cybersecurity.</b></li></ul>	

<b>58.Course Structure:</b>				
<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cybersecurity as a tool of geopolitical power in the contemporary international system</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cyber Conflict between Major Powers and its Impact on Reshaping International Balances of Power</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The State's Sovereignty in Cyberspace and the Problem of Digital Geographical Boundaries</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cyber Attacks as an Alternative to Conventional Warfare in International Relations</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Role of Cross-Border Tech Companies in Shaping the Geopolitics of Cybersecurity</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cybersecurity and the Protection of Critical Infrastructure of the State: Geopolitical and Economic Dimensions</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cyber Alliances and Conflicts in the International System</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	<b>Cybersecurity in Developing Countries: Geopolitical Challenges and Technological Adoption</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>International Humanitarian Law and International Cybersecurity Law: The Problem of Geopolitical Application</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cybersecurity and its impact on national security and strategic decision-making of countries</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cyberspace as an arena of asymmetric geopolitical conflict between states</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cyber Intelligence and its Role in Reshaping the Concepts of Deterrence and International Security</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Controlling global data flows and its impact on the geopolitical influence of countries</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Digital and Cyber Military Transformation: Geopolitical Dimensions of Global Security</b>	<b>2</b>	<b>Fourteenth</b>

Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Transnational Cyber Threats and Their Impact on the Stability of the International System	2	Fifteenth
59. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		11- Required Textbooks		
<p>1- Amos N. Guiora is, (2017), Cybersecurity Geopolitics, law, and policy, by Routledge, New York.</p> <p>2- James L. Norrie,2019, Protecting Ourselves from Big Tech &amp; Bigger Lies,Published by Mindstir Media, LLC, USA.</p> <p>3- Yuri Diogenes &amp;Erdal, (2018)OzkayaCybersecurity – Attack and Defense Strategies,Published by Packt Publishing Ltd. BIRMINGHAM - MUMBAI UK.</p>		12- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	55.Educational Institution
Department of Geography	56.Scientific Department/Center
English	57.Name of the academic or professional program
Masters	58.Name of Final Certificate
Second course	59.Academic System : Annual/Courses/Other
Academic Accreditation Program	60.Accredited Accreditation Program
	61.Other External Influences
18-1-2026	62.Description Preparation Date

### 9. Objectives of the Academic Program:

**Analytical Reading:** Developing the ability to read and understand complex geographical texts and research papers published in international journals

**Academic Writing:** Training the student to write abstracts, formulate hypotheses, and write research reports in English

**Specialized Terminology:** Mastery of terminology related to physical geography, anthropology, and geoinformatics techniques (GIS & RS)

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	60. Educational Institution
Department of Geography	61. Scientific Department/Center
English	62. Course Name/Code
My class (in-person)	63. Available Forms of Attendance
2025-2026	64. Semester/Year
30 hours	65. Number of Hours (Total)
18-1-2026	66. Date this description was prepared
67. Course Objectives: The course aims to: The English language course for master's students aims to enhance advanced academic skills, focus on the language of scientific research, analyze specialized texts (literature or linguistics), and develop critical and analytical skills. The course covers contemporary issues such as technologies in education, semantics, advanced grammar, and scientific research mechanisms, with the aim of preparing graduates capable of producing knowledge in English.	

<b>68. Course Structure:</b>				
<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Science and Our World	2	First
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Air pollution	2	The second
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	School Dinner Scandal	2	The third
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Scientists on the decline	2	Fourth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Words that go together	2	Fifth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Monthly Exam	2	Sixth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	People Past and Present	2	Seventh
Written Exam, Research Requirement and Translation	Lecture, Discussion and Field Study	Information on the net	2	Eighth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Writing Biographies	2	Ninth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Organizing vocabulary	2	Tenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Monthly Exam	2	Eleventh
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Computers under attack	2	XII
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Crediting sources	2	Thirteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Inventions, discoveries, and processes	2	Fourteenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	How things are made	2	Fifteenth
<b>69. Infrastructure</b>				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		13- Required Textbooks		
Headway Academic Skills level 2		14- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	63.Educational Institution
Department of Geography	64.Scientific Department/Center
Geostrategic Theories	65.Name of the academic or professional program
Masters	66.Name of Final Certificate
Second course	67.Academic System : Annual/Courses/Other
Academic Accreditation Program	68.Accredited Accreditation Program
	69.Other External Influences
18-1-2026	70.Description Preparation Date
<p><b>71. Objectives of the Academic Program: This course for the first semester aims to study modern geostrategic theories by reviewing their nature, research trends, and the scientific addition achieved from them.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	70. Educational Institution
Department of Geography	71. Scientific Department/Center
Geostrategic Theories	72. Course Name/Code
My class (in-person)	73. Available Forms of Attendance
2025-2026	74. Semester/Year
30 hours	75. Number of Hours (Total)
18-1-2026	76. Date this description was prepared
77. Course Objectives: The course aims to: uncover the nature of modern geostrategic political theories and their implications on the international system, as well as follow up on the changes that occur on the political map of the world.	

**78. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The concept of the theory and its conditions</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Traditional Theories</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Theory of Naval Force</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Air Force Theory</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Clash of Civilizations Theory</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The End of History Theory</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cybersecurity in Geostrategy</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Creative Chaos Theory</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Soft Power Theory</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Intelligent Force Theory</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Foreign Policy and its Geopolitical Role</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The most prominent criticisms of traditional theories</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The most prominent criticisms of modern theories</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Research Discussion</b>	<b>2</b>	<b>Fourteenth</b>

Written Exam , Research Requirement and Translation	-----	Evaluation exam	2	Fifteen nth
79. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		15- Required Textbooks		
1- Klaus Dodds and David Atkinson, Political Geography in One Hundred Years of Global Geopolitical Development, Part 1. 2- Abbas Ghali Al-Hadithi, Introduction to Political Geography, 2020.		16- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	72.Educational Institution
Department of Geography	73.Scientific Department/Center
GIS	74.Name of the academic or professional program
Masters	75.Name of Final Certificate
Second course	76.Academic System : Annual/Courses/Othe r
Academic Accreditation Program	77.Accredited Accreditation Program
	78.Other External Influences

18-1-2026

79.Description  
Preparation Date

**Objectives of the Academic Program:**

Developing students' abilities on how to use computers and benefit from them in accessing data and drawing charts, tables, maps and graphs that they need in their studies.

Developing the student's abilities to express himself, write research and scientific reports, and build his integrated personality on a sound basis.

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	80. Educational Institution
Department of Geography	81. Scientific Department/Center
GIS	82. Course Name/Code
My class (in-person)	83. Available Forms of Attendance
2025-2026	84. Semester/Year
30 hours	85. Number of Hours (Total)
18-1-2026	86. Date this description was prepared
Course Objectives: The course aims to: develop students' abilities on how to use computers and benefit from them in accessing data and drawing charts, tables, maps, and graphs that they need in their studies. Developing the student's abilities to express himself, write research and scientific reports, and build his integrated personality on a sound basis.	

## 87. Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Introduction to Geographical Technologies (Concept of Technologies, Their Importance, Types, Complementary Relationship between Geographical Technologies)</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Remote sensing (conceptualization), the development of historiography, its importance and areas of general applied uses.</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Types of Remote Sensing, Techniques</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Google Earth Applications (Tariff, Contents)</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>How to Improve Spatial Visualization (Bands, Miscellaneous Processes on Spatial Visualization)</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geographic Information Systems (GIS) // 1- (Introduction to Information Systems, Understood (Nature of Currency), Tariff, Advantages)</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>GIS Components</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	<b>Types of Data and Information in GIS (Spatial Data)</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Metadata and temporal data</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Databases in GIS and their types</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Database Interface and Installation in GIS</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Practical Lesson on How to Create Databases in GIS</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Arc GIS 1 Applications (Tariff, Contents, (ViewWindow, Tables, Layout, Scripts))</b>	<b>2</b>	<b>Thirteenth</b>

Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Handle scene or view window (open project, zoom in and out of features, show, hide, arrange, activate topics)	2	Four teenth
Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Handling the charts window (create, edit, view it)	2	Fifteen th

88. Infrastructure

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	17- Required Textbooks
<p>19- DeMers, Michael (2009). <i>Fundamentals of Geographic Information Systems</i> (4th ed.). John Wiley &amp; Sons, inc. <a href="#">ISBN 978-0-470-12906-7</a>.</p> <p>20- Chang, Kang-tsung (2016). <i>Introduction to Geographic Information Systems</i> (9th ed.). McGraw-Hill. p. 1. <a href="#">ISBN 978-1-259-92964-9</a>.</p> <p>21- Goodchild, Michael F (2010). "<a href="#">Twenty years of progress: GIScience in 2010</a>". <i>Journal of Spatial Information Science</i> (1). <a href="#">doi:10.5311/JOSIS.2010.1.2</a>.</p> <p>22- Maliene V, Grigonis V, Palevičius V, Griffiths S (2011). "Geographic information system: Old principles with new capabilities". <i>Urban Design International</i>. <b>16</b> (1): 1–6. <a href="#">doi:10.1057/udi.2010.25</a>. <a href="#">S2CID 110827951</a>.</p>	18- Primary References

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	80.Educational Institution
Department of Geography	81.Scientific Department/Center
Geomorphology of the Quaternary Age	82.Name of the academic or professional program
Masters	83.Name of Final Certificate
Second Course	84.Academic System : Annual/Courses/Other
Academic Accreditation Program	85.Accredited Accreditation Program
	86.Other External Influences
18-01-2026	87.Description Preparation Date
<p><b>88. Objectives of the Academic Program: This course for the second semester aims to study the geomorphology of the Quaternary Age by reviewing the impact of the geomorphic processes prevailing during that era on the surface of the earth, studying the development of man and his civilizations, explaining the environmental changes that occurred at that time, as well as studying the economic resources that were the result of these processes.</b></p>	

# Course Description Form

## Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	89. Educational Institution
Department of Geography	90. Scientific Department/Center
Geomorphology of the Quaternary Age	91. Course Name/Code
My class (in-person)	92. Available Forms of Attendance
2026 -2025	93. Semester/Year
30 hours	94. Number of Hours ( Total)
2026-10-18	95. Date this description was prepared
96. Course Objectives: The course aims to: uncover the ecology during the Pleistocene and Holocene eras, and the resulting geomorphological processes that greatly affected the earth's surface, and the extent to which these changes are reflected on the development of man and his civilizations, as well as the study of economic resources during this era.	

**97. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Evolution of the Concept of Quadruple Time</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Quadrilateral time divisions</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Climate change</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Changes in sea level</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Suitability of geomorphological systems in quaternary time</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Environmental changes during the Forum Ice Period</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The human environment at the end of the Pleistocene</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Adaptations in the Early Holocene 5000-11500 BC</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The return of forests</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>		<b>Mid-Course Exam</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Stone Age environment in Europe</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Early farmers</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Taming Nature 500-5000 BC</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Influences of Modern Times 500 – 0 BC</b>	<b>2</b>	<b>Fourteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Quadruple time mawars</b>	<b>2</b>	<b>Fifteenth</b>

## 98. Infrastructure

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	23- Required Textbooks
<p>1- Bowen ,D.Q. (1978), Quaternary Geology, Pergamom Press, Oxford .</p> <p>2- Roberts , Neil ,(1998) The Holocene An Environmental History, Blackwell Publishers Ltd., Oxford.</p> <p>3- Summerfield ,Michael A. (1991) Global Geomorphology , Routledge , London.</p> <p>4- DAVID R. OLDROYD1 &amp; RODNEY H. GRAPES (2025), Contributions to the history of geomorphology and Quaternary geology: an introduction, Geological Society, London, Special Publications, 301, 1–17.</p> <p>5- Ian Tattersall (2009) Charles Darwin and Human Evolution, Evo Edu Outreach, The American Museum of Natural History, New York.</p> <p>6- David Bridgland, (2021) The Role of Geomorphology in the Quaternary, Downloaded from <a href="http://mem.lyellcollection.org/">http://mem.lyellcollection.org/</a>.</p> <p>7-Al-Ameri, Thamer Khazal (2000) Historical Geology, Dar Al-Kutub Directorate for Printing and Publishing, Baghdad.</p> <p>8-Neil Roberts, (2017) AHolocene Environmental History, Translated by Hafez Shams El-Din Abdel Wahab, 1st Edition, National Center for Translation, Cairo.</p> <p>9-Al-Awadhi, Hamdina Abdel Qader (2020) The Fourth Time and Environmental Changes, Dar Al-Maarifa University, Alexandria.</p> <p>10- Al-Gohary, Yousri Abdel Razzaq (1974) Man and His Breeds, Al-Maarif Foundation, Alexandria.</p> <p>11- Al-Samarrai, Qusay Abdul Majeed (2008) Climate and Climatic Regions, Al-Yazouri Scientific House for Publishing and Distribution, Amman.</p>	<p>24- Primary References</p>

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities.**

Muthanna University / College of Education for Humanities	1. Educational Institution
Department of Geography	2. Scientific Department/Center
Medina Region	3. Name of the academic or professional program (name of the course or course)
Ph.D.	4. Name of the final certificate (Master's - PhD)
Second course	5. Academic System : Annual/Courses/Other
Academic Accreditation Program	6. Accredited Accreditation Program
	7. Other External Influences
18-1-2026	8. Description Preparation Date
<p><b>9. Objectives of the Academic Program:</b></p> <ol style="list-style-type: none"> <li><b>1. Developing the capabilities of postgraduate students in the aspects of the city region.</b></li> <li><b>2. Opening the horizons of academic program outputs from holders of higher degrees in the labor market.</b></li> </ol>	

## Course Description Form

### Course Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities.**

Muthanna University / College of Education for Humanities	1. Educational Institution
Department of Geography	2. Scientific Department/Center
Medina Region	3. Course Name/Code
My class (in-person)	4. Available Forms of Attendance
2025-2026	5. Semester/Year
. 30 hours	6. Number of Hours ( Total)
18-1-2026	7. Date this description was prepared
8. Course Objectives: The course aims to: 1. Understand what the city region is. 2. Analyze and interpret the spatial relationships between the elements of the inner (morphological) and external (regional) city elements. 3. Assess the environmental impact resulting from the interactions of the elements of the city region and the systems of the city periphery. 4. Development potential and sustainable development of the environment of the city region.	

## 9. Course Structure:

Evaluation Method	Teaching Method	Module Name / or Subject	Watches	The week
Lecture, Discussion and Interrogation	Physical + Electronic	The urban phenomenon (city), its concept, approaches, morphology.	2	First
Lecture, Discussion and Interrogation	Physical + Electronic	The concept of the region and the region of the city and the concepts associated with it .	2	The second
Lecture, Discussion and Interrogation	Physical + Electronic	Types of Regions in General and City Regions in Particular, Methods of Determining the City Region	2	The third
Lecture, Discussion and Interrogation	Physical + Electronic	The relationship between the city and its territory	2	Fourth
Lecture, Discussion and Interrogation	Physical + Electronic	Theories of Regional Planning (Theory of Central Places, Theory of Growth Poles)	2	Fifth
Lecture, Discussion and Interrogation	Physical + Electronic	Primary and non-essential activities and their role in revitalizing the relationship between the city and the region	2	Sixth
Lecture, Discussion and Interrogation	Physical + Electronic	Urban Rural Edge (City Meltdowns)	2	Seventh
Lecture, Discussion and Interrogation	Physical + Electronic	Demographic and social characteristics of the residents of the city and its region (urban development and rural urbanization)	2	Eighth
Lecture, Discussion and Interrogation	Physical + Electronic	Challenges facing the city region	2	Ninth
Lecture, Discussion and Interrogation	Physical + Electronic	Urban dominance (the leading city in the region)	2	Tenth
Lecture, Discussion and Interrogation	Physical + Electronic	Natural and human geographical characteristics of the city region	2	Eleventh
Lecture, Discussion and Interrogation	Physical + Electronic	Samples from the city regions (Community Services Region)	2	XII
Lecture, Discussion and Interrogation	Physical + Electronic	Wholesale & Individual Trade Region	2	Thirteenth
Lecture, Discussion and Interrogation	Physical + Electronic	Industrial and Agricultural Region	2	Fourteenth
Lecture, Discussion and Interrogation	Physical + Electronic	Political and administrative region	2	Fifteenth

## 10. Infrastructure

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	1. Required Textbooks
1- Maher Yacoub Moussa, and Huda Khaled Shaaban, The Geographical Idea of the Concept of Territoriality, undated. 2- Ali Mohamed Diab, The Concept of Territory and Regionalism from a Human Geographical Perspective, 2012. 3- Simin Davoudi , Defining the "city-region",2010	2. Main References

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	10.Educational Institution
Department of Geography	11.Scientific Department/Center
Water Resources Management	12.Name of the academic or professional program
Ph.D.	13.Name of Final Certificate
Second course	14.Academic System : Annual/Courses/Other
Academic Accreditation Program	15.Accredited Accreditation Program
	16.Other External Influences
18-1-2026	17.Description Preparation Date

**18. Objectives of the Academic Program:**

- 1. Developing the capabilities of postgraduate students in the aspects of physical geography, especially water management and its sources.**
- 2. Opening the horizons of academic program outputs from holders of higher degrees in the labor market.**

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	11. Educational Institution
Department of Geography	12. Scientific Department/Center
Water Resources Management	13. Course Name/Code
My class (in-person)	14. Available Forms of Attendance
2025-2026	15. Semester/Year
30 hours	16. Number of Hours (Total)
18-1-2026	17. Date this description was prepared
18. Course Objectives: The course aims to: To make students able to know the science of hydrology, its branches, its importance, and its impact on people's lives. Recognizing the importance of water resources in all directions	

**19. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>River drainage patterns</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Dams and Reservoirs</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Rainfall harvesting</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Aquifers and submersibles</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Marshes and swamps</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Hydrological properties of seawater</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Movometric and Formal Calculations of River Basins</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	<b>Water Balancing Equations</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Modern Irrigation Methods</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>National Rivers and International Rivers</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The riches of the seas</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Regional and International Waters</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Exam</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Fjords and Rayassat</b>	<b>2</b>	<b>Fourteenth</b>

Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Marine Problems	2	Fifteenth
20. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		4- Required Textbooks		
Hydrology Dr. Mahdi Al-Sahaf Online Lectures Lectures prepared by the professor of the subject Water Science Dr Shukr Mahmoud		5- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	19.Educational Institution
Department of Geography	20.Scientific Department/Center
Contemporary Urban Problems	21.Name of the academic or professional program
Ph.D.	22.Name of Final Certificate
Second course	23.Academic System : Annual/Courses/Other
Academic Accreditation Program	24.Accredited Accreditation Program
	25.Other External Influences
17-1-2026	26.Description Preparation Date
<p><b>27. Objectives of the Academic Program: This course for the first semester aims to study urban growth, its causes, what are the most important urban problems resulting from this growth, and a comparative analysis of these problems between developing and developed countries.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	21. Educational Institution
Department of Geography	22. Scientific Department/Center
Contemporary Urban Problems	23. Course Name/Code
My class (in-person)	24. Available Forms of Attendance
2025-2026	25. Semester/Year
30 hours	26. Number of Hours (Total)
17-1-2026	27. Date this description was prepared
28. Course Objectives: The course aims to: Reveal the most important urban problems resulting from urban growth, know the nature of these problems in developing countries, and compare them with contemporary urban problems in developed countries.	

## 29. Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Urban Growth in Developed and Developing Countries: A Comparative Analysis</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Urban Growth Problems and Treatments</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Internal Composition of Cities in Developed and Developing Countries: A Comparative Analysis</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Social Composition in Developed and Developing Countries</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Urban Transportation Problems and Solutions</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Urban Housing Problems and Solutions</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Urban System in Developed and Developing Countries: A Comparative Analysis</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Field study of the city: foundations and curricula</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The local climate of the city</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Efficiency of the city's community services</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Spatial dimensions of crime</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>University and Urban Development</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Postmodern Cities</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Sustainable Cities</b>	<b>2</b>	<b>Fourteenth</b>

Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Critical Discussion Related University Theses	2	Fifteen nth
30. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program			6- Required Textbooks	
1- 1- Fouad Bin Ghadban, Sustainable Cities and Urban Project, Safaa Publishing and Distribution House, Amman, 2014. 2-Khalaf Hussain Al-Dulaimi, Thaer Shaker Al-Hiti, Urban Management Strategies, Safaa Publishing and Distribution-Amman, 2018.			7- Primary References	

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	28.Educational Institution
Department of Geography	29.Scientific Department/Center
Problems with energy geography	30.Name of the academic or professional program
Ph.D.	31.Name of Final Certificate
Second course	32.Academic System : Annual/Courses/Othe r
Academic Accreditation Program	33.Accredited Accreditation Program
	34.Other External Influences

18-1-2026

35.Description  
Preparation Date

**36.Academic Program Objectives:** It aims to study the problems facing energy investment of all kinds, while indicating the geographical and political risks that threaten the energy supply and the environmental effects resulting from its use, and to develop spatial strategies to diversify energy resources, reduce dependence on fossil fuels, and link energy sustainability plans to spatial development and the transition to clean energy.

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	31. Educational Institution
Department of Geography	32. Scientific Department/Center
Problems with energy geography	33. Course Name/Code
My class (in-person)	34. Available Forms of Attendance
2025-2026	35. Semester/Year
30 hours	36. Number of Hours (Total)
18-1-2026	37. Date this description was prepared
38. Course Objectives: It aims to study the spatial variation of energy sources, analyze them, and find out the most important problems facing their use and environmental impacts, while developing strategies and solutions on how to invest them optimally, achieve energy justice, and how geography contributes to integrating energy solutions with urban expansion and increasing energy consumption of all kinds.	

**39. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	The concept of energy, its importance, sources, types and characteristics	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	The development of geographical thought in the study of energy	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Problems of Switching from Fossil Energy to Renewable Energy	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Environmental Problems and Impacts of Energy Consumption	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Energy and Sustainable Development	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Energy and Climate Change	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	International competition for energy sources	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	Energy and population (the relationship of energy to population distribution and demand for energy resources)	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Energy Gap and Spatial Variation in Energy Resources	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Geographical Factors Affecting Energy Investment	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Problems Facing Energy Investment	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Integrated Energy Resources Management	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Artificial Intelligence and a Course in Energy Efficiency Improvement	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Energy Problems (Muthanna Case Study)	<b>2</b>	<b>Fourteenth</b>

Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Successful Experiences in Energy Project Investment	2	Fifteen th
40. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program			8- Required Textbooks	
1- Energy Geography: Heritage, Heterogeneity and New Directions, Stefan Bouzarovski, Martin Pasqualetti, Routledge, England ,2020 . 2- Chaah Abdel Salam, Priorities in the Geography of Energy, 1st Edition, Rabat, Al-Ma'arif Press, 1988. 3- Sobhi Ahmed Al-Dulaimi, Geography of Energy, 1st Edition, Amman, Amjad Publishing House, 2017.			9- Primary References	

### Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	37.Educational Institution
Department of Geography	38.Scientific Department/Center
Studies in Sustainable Development	39.Name of the academic or professional program
Ph.D.	40.Name of Final Certificate
Second course	41.Academic System : Annual/Courses/Othe r
Academic Accreditation Program	42.Accredited Accreditation Program
	43.Other External Influences

18-1-2026	44. Description Preparation Date
<b>45. Academic Program Objectives:</b> To identify the concept of sustainable development and its objectives, the basic concepts of the philosophy of the sustainable environment, its axes, the interrelated relationships between the axes of the philosophy of sustainable environment, and to identify the concept of lifelong education, environmental education, green building, and energy sustainability.	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	41. Educational Institution
Department of Geography	42. Scientific Department/Center
Studies in Sustainable Development	43. Course Name/Code
My class (in-person)	44. Available Forms of Attendance
2025-2026	45. Semester/Year
30 hours	46. Number of Hours (Total)
18-1-2026	47. Date this description was prepared
48. Course Objectives: The course aims to: identify the concept of sustainable development and its objectives, the basic concepts of the philosophy of the sustainable environment, as well as its axes, the interrelated relationships between the axes of the philosophy of the sustainable environment, and to identify the concept of lifelong education, environmental education, green building, and energy sustainability.	

**49. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	What is sustainable development?	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Basic concepts and themes of the philosophy of the sustainable environment	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Sustainable Development Goals	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Interrelationships between the axes of the philosophy of the sustainable environment	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	The Green Economy is a Sustainable Economic Model	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Lifelong education	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Environmental Education	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	Environmental Education	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Sustainable Green Building	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Energy Sustainability	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Recycling	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Sustainable Human Development	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Community Service	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Exam	<b>2</b>	<b>Fourteenth</b>

<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	Research Discussion	<b>2</b>	<b>Fifteenth</b>
50. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		10- Required Textbooks		
1. Philosophy of Sustainable Environment: Prof. Dr. Muhammad Ali Al-Anbari 2. Sustainable Development: Dr. Mohammad Kazem Mantoub, Dr. Raad Taleb Kazim, Dezfras Trad		11- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	46.Educational Institution
Department of Geography	47.Scientific Department/Center
English	48.Name of the academic or professional program
Ph.D.	49.Name of Final Certificate
Second course	50.Academic System : Annual/Courses/Other
Academic Accreditation Program	51.Accredited Accreditation Program
	52.Other External Influences
18-1-2026	53.Description Preparation Date
<p><b>54. Objectives of the Academic Program:</b></p> <ul style="list-style-type: none"> <li><b>A. Developing students' skills in comprehending what they read in English written sources</b></li> <li><b>B. Developing students' skills in writing sentences in English correctly</b></li> <li><b>C. Enable students to listen well in English</b></li> <li><b>D. Increasing students' ability to speak English</b></li> </ul>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	51. Educational Institution
Department of Geography	52. Scientific Department/Center
English	53. Course Name/Code
My class (in-person)	54. Available Forms of Attendance
2025-2026	55. Semester/Year
30 hours	56. Number of Hours (Total)
18-1-2026	57. Date this description was prepared
58. Course Objectives: The course aims to: <b>A. Developing students' skills in comprehending what they read in English written sources</b> <b>B. Developing students' skills in writing sentences in English correctly</b> <b>C. Enable students to listen well in English</b> <b>D. Increasing students' ability to speak English</b>	

**E. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Conserving the past</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Indicating reason and result</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Writing an evaluation essay</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Crediting sources</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Verbs for reporting another writer's ideas</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Expressing contrast</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Writing a discursive essay</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	<b>Describing graphs, charts, and statistics</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Interpreting and translating</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Formal and informal vocabularies</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Discuss questions in groups</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Conducting an interview</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Presenting results</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Presenting data</b>	<b>2</b>	<b>Fourteenth</b>

<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Supporting an argument</b>	<b>2</b>	<b>Fifteenth</b>
F. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		12- Required Textbooks		
Headway academic Skills 3		13- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	55.Educational Institution
Department of Geography	56.Scientific Department/Center
Dryland geomorphology	57.Name of the academic or professional program
Ph.D.	58.Name of Final Certificate
Second course	59.Academic System : Annual/Courses/Other
Academic Accreditation Program	60.Accredited Accreditation Program
	61.Other External Influences
18-1-2026	62.Description Preparation Date
<p><b>63. Objectives of the Academic Program:</b> This course for the second semester aims to explain and analyze the nature of climate, drought, and desertification in arid regions and the forms of the earth's surface, and to adopt modern techniques in the study of these regions, in addition to human activity).</p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	59. Educational Institution
Department of Geography	60. Scientific Department/Center
Dryland geomorphology	61. Course Name/Code
My class (in-person)	62. Available Forms of Attendance
2025-2026	63. Semester/Year
30 hours	64. Number of Hours (Total)
18-1-2026	65. Date this description was prepared
66. Course Objectives: The course aims to: Interpret and analyze the nature of drylands and its concept, drought, its concept, causes and types, soils and their problems, the nature of the climate of dry areas, and the forms of the earth's surface in dry areas, in addition to adopting modern geographical techniques in analyzing the shapes of the land surface and the geographical environment of these areas.	

**67. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Dryland Concept, Dryland Drought (Types, Drought Index) Aridity Index</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Climate and climatic features in drylands</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geomorphological characteristics of drylands</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geomorphological processes in drylands (Weathering, its types, erosion, and types)</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Soils, and their problems, in drylands</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Groundwater in drylands</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geomorphological features in drylands</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	<b>Geomorphology of valley basins in drylands</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Factors Affecting Runoff and Water Discharge in River Basins and Dry Valleys</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Management and Development of Natural Resources in Drylands</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Components of desertification and its forms and sand dunes in drylands</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geomorphological Hazards in Drylands</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geomorphological fragility in drylands</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Flood Fans in Dry Lands</b>	<b>2</b>	<b>Fourteenth</b>

<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Biodiversity of drylands</b>	<b>2</b>	<b>Fifteenth</b>
68. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		14- Required Textbooks		
1- Waleed Al-Hadi Mohamed Shawari, Physical Geography of Arid Lands, Riyadh, Saudi Arabia, 2014. 2- Hassan Sayyid Ahmed Abu Al-Enein, The Topography of the Renaissance Earth's Surface, Beirut, Lebanon, 1966.		15- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	64.Educational Institution
Department of Geography	65.Scientific Department/Center
Climate Change	66.Name of the academic or professional program
Ph.D.	67.Name of Final Certificate
Second course	68.Academic System : Annual/Courses/Other
Academic Accreditation Program	69.Accredited Accreditation Program
	70.Other External Influences
18-1-2026	71.Description Preparation Date
<p><b>72. Objectives of the academic program: It aims to introduce the concept of climate change, its causes and effects on humans, agriculture, industry, transportation, and all areas of life, and to develop mechanisms for adaptation to climate change and its mitigation effects by following several means and reviewing the most prominent global agreements related to climate change and their most prominent decisions, especially the Kyoto Agreement and Paris</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	69. Educational Institution
Department of Geography	70. Scientific Department/Center
Climate Change	71. Course Name/Code
My class (in-person)	72. Available Forms of Attendance
2025-2026	73. Semester/Year
30 hours	74. Number of Hours (Total)
18-1-2026	75. Date this description was prepared
76. Course Objectives: The course aims to: promote the concept of climate change and its future challenges on human society and its impact on health, agriculture, industry, transportation and other sectors among students, and to prepare adaptation options and to mitigate the effects of climate change, which would reduce those effects and achieve economic feasibility.	

**77. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Concept of Change, Change, Climate Volatility and Feedback</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>What is the evidence that the Earth's climate has changed since the pre-industrial era</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Human causes of climate fluctuation</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Natural causes of climate change</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>How to uncover the climate of the past and review the times that the climate has gone through</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Global warming is understood to cause its effects</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Climate Change Indicators Regionally and Globally</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	<b>Climate Change and its Impact on the Environment</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Regional and global impacts of climate change</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Exam</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The impact of climate change on human health, agriculture, transportation, and energy</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Impact of Climate Change on Water Resources</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>International Conferences on Climate Change</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Climate Change Mitigation and Adaptation Options</b>	<b>2</b>	<b>Fourteenth</b>

<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Review of Student Research Discussion</b>	<b>2</b>	<b>Fifteenth</b>
78. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		16- Required Textbooks		
Climate Change between the Past, Present and Future Yousef Mohammed Ali Al-Hathal Salam Al-Jubouri Phone, 2014 Climate Change Synthesis Report 2001		17- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	73.Educational Institution
Department of Geography	74.Scientific Department/Center
Contemporary Problems in Geopolitics	75.Name of the academic or professional program
Ph.D.	76.Name of Final Certificate
Second course	77.Academic System : Annual/Courses/Other
Academic Accreditation Program	78.Accredited Accreditation Program
	79.Other External Influences
2026	80.Description Preparation Date
<p><b>81. Objectives of the Academic Program: This course is intended for the second semester (aims to introduce students to the most prominent contemporary problems).</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	79. Educational Institution
Department of Geography	80. Scientific Department/Center
Contemporary Problems in Geopolitics	81. Course Name/Code
My class (in-person)	82. Available Forms of Attendance
2025-2026	83. Semester/Year
30 hours	84. Number of Hours (Total)
2026	85. Date this description was prepared
86. Course Objectives: The course aims to: study contemporary global problems and crises from the perspective of geopolitics and analyze them accurately in order to identify their causes and repercussions on global stability	

## 87. Course Structure:

Evaluation Method	Teaching Method	Module Name / or Subject	Watches	The week
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	What is geopolitics, its philosophy and its role in understanding contemporary international problems (focusing on theories in understanding conflict, shifting from unilateralism to multilateralism, China as a rising global power, Russia repositioning emerging regional powers, geopolitical conflict between major powers and areas of friction)	2	First
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Climate Change as a Geopolitical Issue (Climate Migration and International Security, Conflict Zones Linked to Climate Change, Climate Justice, Climate Change, Terrorism and Violence)	2	The second
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Energy transition and changing the balance of power (the reality of conventional and renewable energy, strategic rare metals, China-US competition for rare metals)	2	The third
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Digital geopolitics (digital sovereignty, digital space technology, geopolitical dominance , digital soft power, data and its role as the power of states, militarization of space)	2	Fourt h
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Border disputes and their impact on relations between states (seas are an arena of conflict, South China Sea, Arctic, Eastern Mediterranean, land borders and related problems, Kashmir, Western Sahara, Nagorno-Karabakh, Palestine)	2	Fifth
Written Exam , Research Requirement and Translation	Lecture, questioning and discussion	Separatist Identities, and their Impact on State-Building in Cyberspace (Nationalism and Separatist Movements Catalonia and Scotland Iraqi Kurdistan,	2	Sixth

		<b>Uyghur Minorities and Ethnic Groups in China, Rohingya in Myanmar, Amazigh in Africa</b>		
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Cities and their role in shaping geopolitics (Global Cities New York, London, Tokyo Shanghai, Urbanization and Political Stability, Smart Cities and Governance</b>	<b>2</b>	<b>Seven th</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The geopolitics of digital currencies (the dollar, international dominance, cryptocurrencies and monetary sovereignty)</b>	<b>2</b>	<b>Eight h</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Biogeopolitical and biological problems (biological weapons and genetic engineering, genetic data, food security and biotechnology</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geoeconomics and the Formation of Global Space (U.S.-China Trade War, Economic Sanctions and Their Implications, Sovereign Debt and Global Stability, War on Semiconductors</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geopolitical Understanding of Demographic Problems and Their Implications for State Power (Ageing Crisis in Europe, Population Explosion in Africa, Shrinking Workforce in Europe, International Migration</b>	<b>2</b>	<b>Eleve nth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Selected geopolitical problems</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Selected geopolitical problems</b>	<b>2</b>	<b>Thirt eenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Discussion of Students' Research</b>	<b>2</b>	<b>Fourt eenth</b>

**88. Infrastructure**

<b>No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program</b>	<b>18- Required Textbooks</b>
	<b>19- Primary References</b>

## **Academic Program Description**

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	82.Educational Institution
Department of Geography	83.Scientific Department/Center

Remote Sensing	84.Name of the academic or professional program
Ph.D.	85.Name of Final Certificate
Second course	86.Academic System : Annual/Courses/Other
Academic Accreditation Program	87.Accredited Accreditation Program
	88.Other External Influences
18-1-2026	89.Description Preparation Date
<p><b>Objectives of the Academic Program:</b> To deliver the scientific material to the minds of students easily and easily so that it is easy for them to understand and comprehend it , and to train them to use modern software that suits their research requirements in the field of using remote sensing technology in various geographical studies.</p> <p>So.Helping students to acquire information, knowledge, skills and experiences in the field of dealing with the analysis and understanding of satellite visuals in order to develop the student's abilities to express and write research and scientific reports and build his integrated personality on a sound scientific basis .</p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	89. Educational Institution
Department of Geography	90. Scientific Department/Center
Remote Sensing	91. Course Name/Code
My class (in-person)	92. Available Forms of Attendance
2025-2026	93. Semester/Year
30 hours	94. Number of Hours ( Total)
18-1-2026	95. Date this description was prepared
<p>Course Objectives: The course aims to: Delivering the scientific material to the minds of students easily and easily so that it is easy for them to understand and understand it and train them to use modern software that suits their research requirements in the field of using remote sensing technology in various geographical studies. So.Helping students to acquire information, knowledge, skills and experiences in the field of dealing with the analysis and understanding of satellite visuals in order to develop the student's abilities to express and write research and scientific reports and build his integrated personality on a sound scientific basis .</p>	

**96. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Introduction to the concept of geographic technologies</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Remote Sensing Technology Foundations, Principles and Definition</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Components of remote sensing technology and the most important systems used today</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The most important remote sensing applications in the field of geography</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Top Global Positioning Systems</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>American-Russian-Chinese-European System</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>U.S. GPS Technology Foundations, Principles &amp; Definition</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	<b>Components of GPS technology and the most important systems used today</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The most important applications of GPS technology in the field of geography</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Aerial photography technology: foundations, principles and definition</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The most important applications of aerial photography technology in the field of geography</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Drone Technology</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The use of drone technology in the field of geographical studies</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geometric Survey Technology for the Purpose of Stabilizing Coordinates</b>	<b>2</b>	<b>Fourteenth</b>

Written Exam, Research Requirement and Translation	Lecture, questioning and discussion	Application of geographical techniques in the field of various geographical studies	2	Fifteenth
97. Infrastructure				
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program		20- Required Textbooks		
<ul style="list-style-type: none"> <li>• <i>Njoku, Eni, ed. (2014). Encyclopedia of remote sensing. The encyclopedia of earth sciences series. New York: Springer Reference. ISBN 978-0-387-36698-2. OCLC 880118890.</i></li> <li>• <i>Schowengerdt, Robert A. (2007). Remote sensing: models and methods for image processing (3rd ed.). Academic Press. p. 2. ISBN 978-0-12-369407-2. Archived from the original on 1 May 2016. Retrieved 15 November 2015.</i></li> <li>• <i>Schott, John Robert (2007). Remote sensing: the image chain approach (2nd ed.). Oxford University Press. p. 1. ISBN 978-0-19-517817-3. Archived from the original on 24 April 2016. Retrieved 15 November 2015.</i></li> </ul>		21- Primary References		

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	90.Educational Institution
Department of Geography	91.Scientific Department/Center
Geomorphological Hazards	92.Name of the academic or professional program
PhD	93.Name of Final Certificate
First Course	94.Academic System : Annual/Courses/Other
Academic Accreditation Program	95.Accredited Accreditation Program
	96.Other External Influences
2026 -01-18	97.Description Preparation Date
<p><b>98. Objectives of the Academic Program: This course for the first semester aims to study geomorphological hazards by reviewing the geomorphic factors and processes that cause the occurrence of risks that threaten the population and their economic and social activities in various natural environments, as well as finding solutions to avoid these problems.</b></p>	

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	98. Educational Institution
Department of Geography	99. Scientific Department/Center
Geomorphological Hazards	100. Course Name/Code
My class (in-person)	101. Available Forms of Attendance
2026 - 2025	102. Semester/Year
30 hours	103. Number of Hours (Total)
2026-01-18	104. Date this description was prepared
105. Course Objectives: The course aims to: Detect the risks that beset human beings due to the close relationship between geomorphic processes and human activities, as well as the impact of environmental factors in activating geomorphic factors and processes that can pose a danger to humans and their property.	

**106. Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Concept of Geomorphic Hazards</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geomorphological Hazard Assessment</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Dune Creep</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Soil ablation</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Floods</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Canal erosion</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Deepening the flood fan</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Movement of Materials</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Salt Weathering</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam</b>		<b>Mid-Course Exam</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Dust storms in dry areas</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Hydrosclerosis (the collapse of soil after saturation with water)</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Flooding and riverside erosion</b>	<b>2</b>	<b>Thirteenth</b>
		<b>Scientific trip</b>	<b>2</b>	<b>Fourteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Karst Dangers</b>	<b>2</b>	<b>Fifteenth</b>

107. Infrastructure

No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	22- Required Textbooks
<p>1-John Erickson (2002), Environmental Geology, New York.</p> <p>2- Carla W. Montgomery (2006) Environmental Geology, New York.</p> <p>3-Kristiina A. Vogt et al,(1996) Ecosystems :Balancing Science With Management, New York.</p> <p>4-Thornbush, Mary J. (2012) STUDIES OF OXFORD STONE AS A CONTRIBUTION TO ENVIRONMENTAL GEOMORPHOLOGY, <i>Journal of Environmental Geography</i></p> <p>5- Bierman, Paul R. and David R. Montgomery (2014) <i>Key Concepts in Geomorphology</i>, Encyclopedia of Planetary Land Forms, W.H. Freeman, New York.</p> <p>6- Gupta, Gauri Shankar (2019) , Land Degradation and Challenges of Food Security, Review of European Studies; Vol. 11, No. 1; Canadian Center of Science and Education.</p> <p>7- Agegnehu, Getachew, A.K. Srivastava and Bird, Michael I. (2017) The role of biochar and biochar-compost in improving soil quality and crop performance: A review, Applied Soil Ecology ,119, Elsevier B.V.</p> <p>8- Tunç ,Gökhan, Mertol ,Halit Cenan and Akış ,Tolga(2024) , Lessons learned from four recent Turkish earthquakes: SivriceElazığ, Aegean Sea, and Dual Kahramanmaraş, Natural Hazards.</p> <p>9- Dinand Alkema &amp; Angelo Cavallin (2003) Geomorphologic risk assessment for EIA., Studi Trentini di Scienze Naturali – Acta Geologica v. 78.</p> <p>10-</p> <p>10-Al-Ahdab, Ibrahim bin Suleiman (1429 A.H.) <b>Geography of Risks, King Fahd National Monument, Riyadh.</b></p> <p>11-Mr. Ahmed Al-Khatib (2008), <b>Land Pollution, Alexandria.</b></p>	<p>23- Primary References</p>

## Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	99. Educational Institution
Department of Geography	100. Scientific Department/Center
Geography of International Relations	101. Name of the academic or professional program
Ph.D.	102. Name of Final Certificate
Course	103. Academic System : Annual/Courses/Other
Academic Accreditation Program	104. Accredited Accreditation Program
	105. Other External Influences
19-1-2026	106. Description Preparation Date

**107. Objectives of the Academic Program: This course for the first semester aims to study the modern trends in geopolitics by reviewing their nature, research trends, and the scientific addition achieved from them.**

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	108. Educational Institution
Department of Geography	109. Scientific Department/Center
Geography of International Relations	110. Course Name/Code
My class (in-person)	111. Available Forms of Attendance
2025-2026	112. Second Semester /Year
30 hours	113. Number of Hours ( Total)
19-1-2026	114. Date this description was prepared
115. Course Objectives: The course aims to : uncover the topics of the geography of international relations, as well as follow up on the changes that occur on the political map of the world, not to mention reveal the role of geographical capabilities in drawing the external behavior of actors in the system of international relations.	

**116.Course Structure:**

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Concept of the Geography of International Relations, its Stages of Development, Methods and Types</b>	<b>2</b>	<b>First</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Digital Colonialism Foundations and Applications</b>	<b>2</b>	<b>The second</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Arguments for the Western Democratic Model in International Relations</b>	<b>2</b>	<b>The third</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Health Diplomacy and its Geostrategic Applications</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>International Relations between Power Narratives and the Power of Digital Narratives</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geo-Data Conflict and its Applications in International Relations</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Liquid Polarity and its Geostrategic Applications</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Digital Colonialism and its Geopolitical Applications</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Tight Chaos in International Relations</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Neuro Diplomacy and its Geopolitical Applications</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Tropical colonialism in international relations</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Smart Containment Strategy in International Relations</b>	<b>2</b>	<b>XII</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Geopolitics of Western Values and Their Geostrategic Applications</b>	<b>2</b>	<b>Thirteenth</b>
<b>Written Exam , Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Geo-Semiotics: Geopolitical Foundations and Applications</b>	<b>2</b>	<b>Fourteenth</b>
<b>Research Discussion and Written Exam</b>			<b>2</b>	<b>Fifteenth</b>

117. Infrastructure	
No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program	24- Required Textbooks
1- Klaus Dodds and David Atkinson, Political Geography in One Hundred Years of Global Geopolitical Development, Part 1. 2- Tim Marshall, How Geography Shapes the Fate of Nations, 2021.	25- Primary References

### Academic Program Description

**This academic program description provides a concise summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available opportunities. It is accompanied by a description of each course within the program**

Muthanna University / College of Education for Humanities	108. Educational Institution
Department of Geography	109. Scientific Department/Center
Applications of Artificial Intelligence in Contemporary Population Studies	110. Name of the academic or professional program
Ph.D.	111. Name of Final Certificate
Second course	112. Academic System : Annual/Courses/Other
Academic Accreditation Program	113. Accredited Accreditation Program
	114. Other External Influences
18-1-2026	115. Description Preparation Date

**116. Academic Program Objectives:** The program aims to prepare specialized academic and research cadres capable of employing artificial intelligence and big data analysis techniques in the study of contemporary population phenomena, analyzing their spatial and temporal patterns, and supporting population planning and developmental decision-making.

## Course Description Form

### Course Description

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve and demonstrate whether they have made the most of the available learning opportunities. It should be linked to the program description.

Muthanna University / College of Education for Humanities	118. Educational Institution
Department of Geography	119. Scientific Department/Center
Applications of Artificial Intelligence in Contemporary Population Studies	120. Course Name/Code
My class (in-person)	121. Available Forms of Attendance
2025-2026	122. Semester/Year
30 hours	123. Number of Hours ( Total)
18-1-2026	124. Date this description was prepared
125. Course Objectives: The course aims to: Consolidate the theoretical and philosophical framework of artificial intelligence in population studies, by analyzing the development of smart models and their relationship to contemporary demographic analysis, and deepening the skills of analyzing large and unstructured population data from multiple sources (censuses, surveys, administrative records, mobile phone data, social media), and evaluating the efficiency and accuracy of population predictive models based on artificial intelligence and comparing them with traditional demographic statistical methods, and employing Artificial Intelligence in Uncovering Future Population Scenarios and Supporting Population Planning and Sustainable Development Policies.	

## 126.Course Structure:

<b>Evaluation Method</b>	<b>Teaching Method</b>	<b>Module Name / or Subject</b>	<b>Watches</b>	<b>The week</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Concept of Geographic Artificial Intelligence And his role in scientific research Artificial Intelligence Research Trends The Importance of Artificial Intelligence in Geographical Studies</b>	<b>2</b>	<b>First</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Applications of Artificial Intelligence in Human Geography</b>	<b>2</b>	<b>The second</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Artificial Intelligence and Population Growth</b>	<b>2</b>	<b>The third</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Using Artificial Intelligence in Population Data Analysis</b>	<b>2</b>	<b>Fourth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Population Studies in the Age of Artificial Intelligence</b>	<b>2</b>	<b>Fifth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Impact of Artificial Intelligence on the Population Fertility Rate</b>	<b>2</b>	<b>Sixth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Impact of Artificial Intelligence on Mortality (Maternal Mortality as a Model)</b>	<b>2</b>	<b>Seventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, Discussion and Field Study</b>	<b>Predicting Population Variables in Iraq Using Artificial Intelligence</b>	<b>2</b>	<b>Eighth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The role of artificial intelligence in reducing crime</b>	<b>2</b>	<b>Ninth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Role of Artificial Intelligence to Reduce Poverty and Unemployment</b>	<b>2</b>	<b>Tenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Impact of Artificial Intelligence on Population Migration</b>	<b>2</b>	<b>Eleventh</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Impact of Artificial Intelligence on the Decline in Household Income</b>	<b>2</b>	<b>XII</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>The Impact of Artificial Intelligence on Violence Rates on Women</b>	<b>2</b>	<b>Thirteenth</b>

<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Studying the ethical, legal, and social dimensions of using AI in population data analysis.</b>	<b>2</b>	<b>Fourt eenth</b>
<b>Written Exam, Research Requirement and Translation</b>	<b>Lecture, questioning and discussion</b>	<b>Employing artificial intelligence in uncovering future population scenarios and supporting population planning.</b>	<b>2</b>	<b>Fiftee nth</b>

127. Infrastructure

<b>No Course Books Required Due to Lack of Standardized Sectorality in the Graduate Program</b>	<b>26- Required Textbooks</b>
<b>Geographic Artificial Intelligence Machine Learning for Spatial Data Analysis Handbook of Geospatial Artificial Intelligence Spatial Analysis: A Guide for Ecologists</b>	<b>27- Primary References</b>