

**Faculty of Art**  
**Department of Geography**  
**Study Plan**  
**Master in GEOGRAPHY**  
**(Thesis Track)**

	Serial #	Degree	Dep #	Faculty #	Year	Track
Plan Number		2	4	23	2015	Thesis

**First: General Rules & Conditions:**

1. This plan conforms to the valid regulations of the programs of graduate studies.
2. Specialties of Admission:
  - The First Priority: Bachelor's in Geography, Bachelor's in Educational Science, Bachelor's in Agriculture, Bachelor's in Regional and Urban Planning.
  - The second Priority: Bachelor's in Development, Bachelor's in Geology, Bachelor's in Tourism or Archaeology, Bachelor's in Civil Engineering.

**Second: Special Conditions:**

- None.

**Third: Study Plan: Studying (33) Credit Hours as following:**

1. Obligatory Courses (15 ) Credit Hours:

Course No.	Course Title	Credit Hrs	Theor y	Practi cal.	Pre/Co-requisite
2304701	Geographical Information Systems and Digital Mapping	3	3	-	-
2304702	Advanced Climatology	3	3	-	-
2304703	Urban Planning	3	3	-	-
2304704	Spatial Organization of Economic Activities	3	3	-	-
2304720	Research Methods in Geography	3	3	-	-

2. Elective Courses: Studying (9) Credit hours from the following:

Course No.	Course Title	Credit Hrs	Theory	Practical.	Pre/Co-requisite
2304707	Demographic Analysis	3	3	-	-
2304708	Tourism Planning	3	3	-	-
2304709	Geography and Globalization	3	3	-	-
2304710	Environmental Problems	3	3	-	-
2304711	Land Use Planning	3	3	-	-
2304712	Water Resources Management	3	3	-	-
2304762	Desertification	3	3	-	-
2304779	Geomorphological Processes	3	3	-	-

3. Thesis: ( 9 ) Credit hours (2304799).

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**Master in GEOGRAPHY**  
**(Non-Thesis Track)**

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Plan Number		2	4	23	2015	Non Thesis

**First: General Rules & Conditions:**

1. This plan conforms to the valid regulations of the programs of graduate studies.
2. Specialties of Admission:
  - The First Priority: Bachelor's in Geography, Bachelor's in Educational Science, Bachelor's in Agriculture, Bachelor's in Regional and Urban Planning.
  - The second Priority: Bachelor's in Development, Bachelor's in Geology, Bachelor's in Tourism or Archaeology, Bachelor's in Civil Engineering.

**Second: Special Conditions:**

- None.

**Third: Study Plan: Studying (33) Credit Hours as following:**

1. Obligatory Courses (24) Credit Hours:

Course No.	Course Title	Credit Hrs	Theory	Practical	Pre/Co-requisite
2304701	Geographical Information Systems and Digital Mapping	3	3	-	-
2304702	Advanced Climatology	3	3	-	-
2304703	Urban Planning	3	3	-	-
2304704	Spatial Organization of Economic Activities	3	3	-	-
2304711	Land Use Planning	3	3	-	-
2304712	Water Resources Management	3	3	-	-
2304720	Research Methods in Geography	3	3	-	-
2304779	Geomorphological Processes	3	3	-	-

2. Elective Courses: Studying (9) Credit hours from the following:

Course No.	Course Title	Credit Hrs	Theory	Practical	Pre/Co-requisite
2304707	Demographic Analysis	3	3	-	-
2304708	Tourism Planning	3	3	-	-
2304709	Geography and Globalization	3	3	-	-
2304710	Environmental Problems	3	3	-	-
2304762	Desertification	3	3	-	-

3. A comprehensive exam (2304798).



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**2304701 Geographic Information Systems and Digital Mapping 3<sup>1</sup>(3,0,0) Credit Hours**

This course deals with the management of geographical research projects using GIS and digital mapping techniques and reviews the components and models of geographical data and information. Fundamental descriptive and explanatory tools for visualizing data in geography and other disciplines are also employed. The course provide students with the knowledge of building databases and management, advanced analysis using spatial and 3D analysis techniques, cartographic data transformations, classification and presentation techniques.

**2304702 Advanced Climatology 3 (3,0,0) Credit Hours**

The course includes some analytical methods in Climatology such as human comfort, the methods of calculating the areal precipitation, weather maps, evaporation. It also focuses on the climate of Jordan and Climate regions.

**2304703 Urban Planning 3 (3,0,0) Credit Hours**

The course defines the concerns of urban planning. It explores the evolution of urban planning practices in the twentieth century and the philosophical, institutional and methodological aspects of the field. The methods and techniques related to urban planning are examined at the qualitative and quantitative levels with emphasis on techniques available in plan analysis such as employment/economic structure techniques, population analysis and forecasting, spatial interaction methods such as gravity models, land use/transportation models, linear models and plan generation and evaluation techniques such as goal achievement, planning balanced sheet, optimization and linear programming and cost benefit analysis.

**2304704 Spatial Organization of Economic Activities 3 (3,0,0) Credit Hours**

The variety of theories explain regional development disparity – in social and economic terms-stress the need to study these theories and their application in spatial organization of the economy in a given a given place. The main elements of the spatial organization are the spatial structure and spatial interaction. The aim of applied economic geography is to understand these theories and their application in different locations and regions and to select the proper theory and research approach to construct the theoretical framework of scientific work in economic geography. Following theories could be seen as examples: Economic Clusters, International Trade, Networks, Industrial Districts, Fordism, Flexibility and Specialization, New Fordism, Regulation Theory.

**2304707 Demographic Analysis 3 (3,0,0) Credit Hours**

The purpose of this course is to study the basics of demographic analysis using Excel and SPSS. Topics in this course include : Fertility , mortality, migration in terms of: concepts, definitions and patterns. The course deals also with population projection.

**2304708 Tourism Planning 3 (3,0,0) Credit Hours**

The course deals with the basic elements of tourism planning. It includes quantitative and qualitative analysis of the structure of the tourists (tourist market) and the determining factors and changes in tourist behavior. Changes in tourist behavior form and reform the tourist regions (regionally and globally). The course discusses the proper planning for sustainable tourism in ecological, economical and social dimensions. These dimensions will be discussed in relation to their effects on shaping tourism both in the organizational and climatic changes. Planning includes actual and alternative strategies to reach tourism targets locally and nationally.

**2304709 Geography and Globalization 3 (3,0,0) Credit Hours**

The course discusses the development of the terminology of globalization from a geographical point of view. It studies the structure and the interactions of globalization as well as the trend towards international interdependency in terms of labor division, production, consumption and communication. Furthermore, the course will concern itself with monetary market integrations, knowledge transfer, the developments in the constructs of distance and space, local cultures and the role of the state. The course also examines the role of international institutions in the formation of global systems.

**2304710 Environmental Problems 3 (3,0,0) Credit Hours**

This course is intended to provide learners with an appreciation and understanding of the interconnectedness of environmental problems that currently plague our society. Study of environmental problems to human society arising from air, water, and earth either independently or from human activities. It cover types of air pollutants and water pollution, their sources, health effects, and environmental effects, methods of measurement and control, as well as environmental quality regulations.

**2304711 Land Use Planning + 3 (3,0,0) Credit Hours**

The course introduces the history, philosophy, legal framework, principles and procedures used for land use planning. The course provides an overview of land use planning at the local, regional, and country levels. Illustrate the concepts of environmental planning and land conservation tools and techniques designed to promote land and community health. Contemporary policy issues related to planning, resource management, property ownership and community based conservation will be addressed. Future development of land use and land use planning.

**2304712 Water Resources Management 3 (3,0,0) Credit Hours**

The aim of this course is to provide an understanding of issues and methods in water resources management, and is set especially within the framework of total, or integrated, catchment management. The course gives, major issues of water resource management, the implications of past water management practices, the principles of integrated catchment and

sustainability, and current management tools and strategies. Topics will include: impacts water management on water quantity and quality: water demand and allocation among users, including the environment; the geographical, economical, social, and institutional and policy aspects of water resources management; recent strategies of water resources management.

**2304720 Research Methods in Geography 3 (3,0,0) Credit Hours**

This course provides the contemporary geographical research methods with an emphasis on the practical basis of geographical research and formulate theories and geographic laws and building geographical models, as well as a focus on quantitative research in geography curriculum by introducing of the multi-statistical techniques (Multiple Statistics) and its applications in geographical studies. It aims to develop students' knowledge about these methods of scientific research. It also trains the students to use the computer for data entry, storage and analysis, by using (SPSS) as well as designing samples. And trained on how to formulate statistical hypotheses and some statistical tests such as Chi-square tests (X<sup>2</sup>), (T) test and (F) test.

**2304762 Desertification 3 (3,0,0) Credit Hours**

This course discusses the development of desertification concepts, and the natural and human factors that lead to the desertification phenomena. It also focuses on the processes that lead to the degradation of renewable resources specifically soil and plant. The environmental degradation caused by desertification as changes in ecosystem characteristics and functions are also provided in this course as well as the methods of land degradation assessment and monitoring using quantitative and qualitative techniques such as field assessments, mathematical models, and remote sensing approaches.

**2304779 Geomorphological Processes 3 (3,0,0) Credit Hours**

This course discusses the various geomorphologic processed contributed to the formation and development of present and relict land forms. It also investigates the diversity of such processes in terms of kind, intensity and components under differing geologic (Structure-lithely) climatic, and biotic condition, with the frame work levels, include weathering, erosion, transportation and deposition, in addition to the tectonic activities of faulting, folding and volcanism.