

## **DEPARTMENT OF GEOGRAPHY** **B.A. PROGRAMME COURSE DESCRIPTION**

### **(3 Cr. Hrs) (2340100) Geography of Jordan (University Requirement)**

This Course pursues the following objectives:

- The study the physical geographical landscape of Jordan.
- To shed light on the evolution of the Jordan cultural and transit location between Arab countries, as well as between the Far East and Europe.
- To analyze landforms of Jordan, climate, water resources as well as the Cultural landscape including the distribution of: population, settlements and economic activity.
- To focus on certain environmental problems e.g. water, desertification and population.

### **(2304101) Introduction To Geography (3Cr. Hrs.)**

This course discusses the physical and cultural environmental parameters, and their interrelationships, distinguishing the regional variations of landscapes. This includes the study of the atmosphere, hydrosphere, lithosphere, biosphere as well as population in term of growth, geographic distribution, economic and cultural activities, and the interrelationships they develop with their environments.

### **(2304102) Social Geography (3Cr. Hrs)**

The course of Social Geography studies the effect of the place on constructing social groups and social organizations (spatial Social structure) . It discusses the relationships between the place and the social behavior . Also it studies the consequences of these relationships on the processes and functions that affect the spatial structure .

### **(2304121) Population Geography (3Cr. Hrs)**

The study of the evolution of population Geography, the population characteristics and their methods and measures such as: population distribution, population movement and population structures .

**(2304130) Climatology (3Cr. Hrs)**

The course is designed to provide the students with the basic knowledge about the atmosphere elements and phenomena : radiation, temperature, pressure, winds condition and precipitation.

**(2304200) Quantitative Geography (3Cr. Hrs)**

This course introduces the student to some basic skills, such as, map scale, Projections, and drawing tools and materials. Also, it teaches the students how to make and read maps, especially, the topographic and the quantitative and qualitative ones, by applying the map skills of design, lines, shadows, colures, and lettering.

**(2304202) Location Theory (3Cr. Hrs)**

The study of agricultural land uses locations by Van Thenen, The Industrial location by Weber and The central place Theory by water Chris taller. Also this course introduces the students to the application, of these theories.

**(2304211) Principles Of Cartography (3Cr. Hrs)**

The study of some quantitative techniques and their applications in solving geographic problems, such as the central tendency measures, Sampling, and Correlation coefficient . Also. it introduces to the students methodology and the kinds of variables .

**(2304213) Aero-Aird Ground Survay (3Cr. Hrs)**

An introduction to photogrametry and geometry of the aerial photographs ; materials necessary to conduct photo-interpretation ; the principles of photo-interpretation ; an introduction to plane surveying , chain surveying ; compass surveying , plane tabling and leveling .

**(2304231) Applied Climatology (3Cr. Hrs)**

Application of Climatology in the fields of agriculture, industry, transportation, human health and comfort.

**(2304234) Water Resources (3Cr. Hrs)**

Method of measurement and estimation of water recourses, evaporation and condensation; precipitation and surface runoff; conservation of ground water; the problems of water management in arid lands .

**(2304242) Biogeography And Soils (3Cr. Hrs)**

This course discusses the following subjects :-  
Development of Biogeography , Biosphere and its role .  
Ecological factors which affect flora and fauna.  
The nature of soil and its components, soil nutrients, soil profile and soil taxonomy.  
Ecosystem and the bioregions, Flora, Fauna and soil distribution.

**(2304251) Economic Geography** **(3Cr. Hrs)**

The study of the development of economic resources; the three economic sectors: (Agricultural, Industrial and Services); economic development and location theories; the influence of natural and cultural factors on economic development.

**(2304252) Tourism Geography** **(3Cr. Hrs)**

This course examines the origins and evolution of contemporary tourism. The development and evolution of the tourism industrial base and the tourism infrastructure are also examined, along with the constituent parts of the tourism industry. There will be different case studies from developed countries; UN developed countries, as well as Jordan, besides many field trips to different tourism sites in Jordan.

**(2304262) Evolution of Geographical Thoughts** **(3Cr. Hrs)**

This course is an account of successive geographical ideas that scholars have developed. The classical period started from the beginning of the geographical thoughts during the time of old civilizations and Muslim in the middle ages. The modern period begins with the appearance of the professional field of geography in Germany, France, England, USA, then the definition of geography and its relationships with other sciences. The contemporary period includes the geographical innovations and traditions in the last decades.

**(2304266) Human Migrations**

Studying human migration through time, and their patterns, motives, and Courses. Also, studying migration theories and the consequences of migrations.

**(2304273) Rural Geography** **(3Cr. Hrs)**

This course aims to study rural areas by stressing its characteristics regarding rural settlements, rural land use and economic activities, as well as rural population. Appropriate rural development strategies are examined in different rural areas in order to improve the utilization of rural resources.

**(2304300) Geographic Information System (Gis)** **(3Cr. Hrs)**

The course aims at dealing with the principles of GIS, such as: Definitions, development, components, and their theories. Several subjects will be taught such as: database construction which include building of geographical data and their attributes. Also, manipulating database according to symbolizing, charting, tabling, matching, buffering, merging and making successive output.

**(2304301) Geography of Entrepreneurship** **(3Cr. Hrs)**

Geography of Entrepreneurship is an approach which links the socio-cultural ecology with the level of economic development. Entrepreneurs in this course considered as the major determinants of the rate of economic growth and source of innovation. It discusses the issue of entrepreneurs in the society and the methods of their socialization and theories stand behind.

**(2304303) Principles Of Remote Sensing (3Cr. Hrs)**

This course concentrates on the definition of remote sensing and its role in geographical research, geometrical properties of aerial photographs, principles of photo – interpretation, and the geographical applications of aerial photography. Electromagnetic radiation and its interaction with surface material, and land use. Different types of imaging sensors, and imageries. Principles of digital image processing and interpretation. General application of satellite imageries in geographic research.

**(2304310) Land Uses (3Cr. Hrs)**

The study of land uses important in regional and urban planning and the development the vacant lands in cities. It focuses on the techniques of surveying land uses and its presentation on maps.

**(2304312) Thematic Mapping (3Cr. Hrs)**

The course deals with the basic skills used in transferring any theme to thematic map. Therefore several topics will be discussed, such as definitions and designing of general contents or annotation of thematic maps; including their sources and the main cartographic methods ( Qualitative and Quantitative) in representing features or their attributes on maps. Finally the course will deal with the main problems in applying these methods both in traditional and digital techniques.

**(2304329) Urban Geography (3Cr. Hrs)**

Studies urban geography through the following three approaches: Urban historical geography, City systems and cities as systems (the internal Structure of cities). Some relevant theories will be Introduced to the students Such as: The central place theory and some economic theories explaining City growth.

**(2304342) Geomorphology (3Cr. Hrs)**

Origins and development of land-forms; geomorphologic processes in different environments especially the processes of weathering, mass-wasting, erosion and deposition by rivers, glaciers and winds.

**(2304353) Agricultureal Geography (3Cr. Hrs)**

Human and natural influence on land use of agricultural regions; agricultural boundaries; land use systems; technology and agriculture; geography of Jordan.

**(2304354) Industrial And Power Geography (3Cr. Hrs)**

This course deals with the importance of industry and energy in the economic system by analyzing the inputs of industrial system, in addition to its structure and inputs. Concentration is given to the role of energy in the process of industrial system, and to the role of planning in selecting the kinds of industries, estimating their value added and localization, in addition to its role in industrial planning.

**(2304355) Transportation Geography (3Cr.Hrs)**

Development of transportation ; transportation types and facilities ; the effect of topography and land use on transportation ; transportation and urban settlements ; geographical distribution of networks and its influence on world trade and market centers .

**(2304363) Political Geography (3Cr.Hrs)**

This course deals with the concepts and schools of thoughts in political geography. The state is considered as a political unit to be studied on local, regional

and international levels. Accordingly, political borders, systems, site, location, physical and cultural attributes are investigated. Also, certain international issues are studied such as the new global system, Arab national security and Arab-Israeli Conflict.

**(2304390) Environmental Hazard (3Cr. Hrs)**

This course is intended to explore how the environment is becoming more hazardous, to discuss concepts such as hazard, response, and choice, and the range of experience. The individual choice and the collective action, the national policy towards environmental hazard and the international cooperation towards hazard management and disaster prevention.

**(2304400) Geography of Development (3Cr. Hrs)**

This course deals with basic development and backwardness concepts. It classifies the world countries according to level of development. Explanation of spatial backwardness is discussed, as well as the socio-economic and political and demographic features of the under-developing countries. It includes economic development strategies and its source of finance. Finally different development models are examined.

**(2304243) Terrain Analysis (3Cr. Hrs)**

This course concentrates on the ITC system of Terrain classification and evaluation with special reference to criteria and terminology use for the characterization of terrain units, techniques in terrain classification parameters, photo-interpretation as related to the scope of the survey, finally, some applications of terrain analysis and evaluation (i.e. soil erosion susceptibility survey and conservation studies, actual hazard mapping, traffic ability inventory, coastal hazards, and materials mapping).

**(3Cr. Hrs) (2304471) Conservation Of Natural Resources**

Nature of the natural resources; the philosophy and methodology of the conservation movement; conservation of the atmosphere, water resources, soil and wild-life.

**(3Cr. Hrs) (2304474) Regional And Urban Planning**

This course highlights the process of regional and urban planning; its stages, incentives, purposes, and spatial content. It aims to provide the student with basic skills required for delineating planning regions, as well as, with quantitative methods and models usually used in regional and urban planning.

**(2304481) Arid Lands Geography (3Cr. Hrs)**

Distribution of deserts and causes of aridity; environmental of deserts; acclimatization of man in arid lands and the economic resources.

**(2304482) Geography Of Jordan (3Cr. Hrs)**

The physical and human environments of Jordan, the geographical characteristics of regional divisions.

**(2304483) Geography Of Arab World**

**(3Cr. Hrs)**

A general geographic survey is made to cover the physical, human and economic resources. The Arab world is accordingly, distinguished into certain geographical-regional units. Some geographical issues are also discussed such as economic integration, the water security, the food security and population problems.

**(2304484) Models In Regional Geography**

**(3Cr. Hrs)**

A geographical-regional appraisal conducted on continental and/or regional levels, including the Americas, Asia, Africa and Europe. The purpose of such an appraisal is to distinguish the physical aspects and man's responses in various regions, including his economic activities.

**(2304485) Transportation Systems**

**(3Cr. Hrs)**

This course seeks to identify the characteristics of various transport systems, namely Road, Air, water, and Rail Transport systems. It highlights the factors influencing the use of each transport mode.