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KARABÜK ÜNİVERSİTESİ REKTÖRLÜĞÜ  
COĞRAFYA BÖLÜM BAŞKANLIĞI

**DEPARTMENT OF GEOGRAPHY CURRICULUM AND COURSE CONTENTS**

**I. Semester Courses**

Course ID	Course Title	Course Content
COG151	Introduction to Geography	Introduction to Geography includes scope of the subject, philosophy of Geography, prospect for Geography as interdisciplinary discipline, detailed presentation of its branches and systematic classification with the help of basic geographic concepts and research methodology, development of the subject of Geography in the World and Turkey, who are the Geographers, in which fields Geographers work.
COG153	Geography of Rocks	Petroğrafya's place in human life and the importance of the concept of minerals and rocks, minerals and rocks descriptive characteristics, classification of minerals and rocks, rock formation, igneous - sedimentary and metamorphic rocks, features, lithological effects of geomorphological features.
COG155	Introduction to Climatology	Climate control and its elements, climate system, solar radiation and the atmosphere, temperature, wind and pressure areas, the general atmospheric circulation.
COG157	Terrestrial Globe	The Sun, Solar System, Earth's age, shape, size and movements, geospheres, minerals and their features, rock types, orogenesis, faults, seismicity and magmatism.
COG159	Cartography	Basic principles of cartography, maps, plan, sketch, explanations about history of cartography, map types, map symbols, content of maps, map scales, length and square measurements, equator-meridian, latitude and longitude, GMT, calculation of local time.
COG161	Computer Applications in Geography	This course includes visual elements of computer technology, development of new applied techniques by applying and utilizing presentation technique, taking advantage of the computer to create visual basic tools with graphical programs, introduction to programs to analyze the statistical data and learning to use immediate access to geographical data base and research data sources on the internet.
COG163	Geographical Thoughts and Concepts	This course includes Basic concepts, periods of development of geographical thought, various scientific movements, examining the relationship between the human and environment in the light of philosophical thoughts.
COG165	Human and Environment	Explanation of those concepts such as environment, milieu, geographical space, ecology, human ecology, ecosystem, sustainability in environmental researches and geographic approach. Scrutinizing human life and actions, relations between elements of natural and social environment and explanation of causes of possible environmental problems. Introduction of environmental degradation and regions those have high pollution risk with their natural and social potentials. Importance and situation of sustainability at the duality of economic development and environment.
COG167	Photography	The introductory lectures on the very basic principles, tools, materials and the history of photographic image are going to be put into use by simple assignments of B&W photography like portraits, landscape and stilllife, followed by projects on photographic series, to be discussed and evaluated in class.

**II. Semester Courses**

Course ID	Course Title	Course Content
COG152	Climatology I	Climate components, the origin, composition and structure of the atmosphere, solar and terrestrial radiation, atmospheric heat, temperature, air pressure, winds, general atmospheric circulation.
COG154	General Economy	The subject matter of economics and general frameworks, basic concepts and problems, development of economics, basic economic systems, factors of production, theory of consumer behaviour, theory of producer behaviour, price mechanism and market structures, theories of perfect and imperfect competition.
COG156	Regional Geography	Region concept in regional geography, region types and boundaries, place of regional geography in eography, principles of regional geography, physical geography components in a region, human geography components in a region, continents in terms of region concept (South America), countries in terms of region concept (South America), geographical regions, upper administrative units, lower administrative units, physical regions (Vegetation regions), human and political regions.
COG158	Population Geography	Recognition about population and demography concepts, to be introduced about geographical approach in population researches and new topics in demographic studies. Explanation of birth rate, mortality rate and migration factors effecting world population growth and able to make assessment in comparative frame for developed-less developed countries. Explanation of over population increases problems with their spatially differentiate characteristics. Change of population density in the world, geographical distribution of over and less populated areas, their social and economic properties. Migration's effects in population distribution and changing demography agenda by globalization.
COG160	Introduction to Geomorphology	Definitions of geomorphology, historical development of geomorphology, Structure of Earth and their features, the role of internal and external forces on landforms development, external agents and processes, orogenesis, orogenesis, faults, earthquakes, minerals, rocks.
COG162	Geographic Information Technologies	The objective of this course is to teach the spatial data collecting techniques, analysis and presentation of the results by the use of Geographic Information System (GIS). This course includes learning the basic principles of GIS, developing the spatial data management techniques, integrating the map-based data with information technology and management and presentation of all kinds of geospatial data / information in specific databases, application and use of GIS in other disciplines' areas of interests.
COG164	Cultural Geography	This course includes conceptual frame of culture, its definition, history, system and principles, cultural evolution and revolutions, characteristics of material and intangible culture, characteristics of urban and rural cultures, relationship between culture and Geography, cultural diffusion, cultural ecology, cultural integration, cultural landscape, history of cultural Geography and world cultural regions (distribution).
COG166	Mathematical Geography	This course includes introduction to the universe and place of earth, explanation of chronological order of measurements to find out the size of the earth with theories about the shape of the earth. Besides, the physical characteristics and movement of the earth and associated processes are described. Moreover, concepts of parallels and meridians as part of geographic coordinate system to find out the absolute location of some point on the earth and concept of time is described. Application of all these concepts is made.
COG168	Geography Literacy	In this course the learning objectives include examination, corroboration, evaluation and analysis of Geographic information, learning the idea of location based on geographic concepts, role of Geography in



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		explaining the differences in possession of natural resources and power, understanding the concept of location within a country, understanding the locations of physical characteristics of Turkey, the significance of human elements in shaping the places, the use of compass and GPS system to find out the directions during field work, making future judgements after analysis of geostrategic positions of countries of the world, the effect of climate on human life and resultant processes, assessing future predictions by making analysis of geographic information and related tables and graphic data, making relationship between symbol of legend of map with real life environment and assessment of maps, tables, graphs, shapes and aerial photography.
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**III. Semester Courses**

Course ID	Course Title	Course Content
COG251	Geomorphology I	River definition, erosional and accumulation activities, drainage system, carrying types of river materials, lateral and longitudinal profiles.
COG253	Rural Settlements	This course includes concept of settlement, differences between rural and urban settlements, permanent and temporary settlements, concepts of nucleated, clustered and dispersed settlements, boundaries of settlements, factors affecting the settlements, types of settlements, types of dwellings, factors affecting planning, use of material shape and structure of dwellings, primitive dwellings, the distribution of dwellings made by stone, mud, wood and modern technological methods, human environment relationship in rural areas in association with society economy, politics, and culture in developed and developing countries.
COG255	Climatology II	Global hydrologic cycle atmospheric moisture, its global spatial distribution, and its importance in energy exchange, and cloud and precipitation formation
COG257	Coastal Regions of Turkey	Location, department, region, and the concepts in the Marmara Region of physical, social and economic characteristics, parts of the Mediterranean region the physical, social and economic characteristics, parts of the Aegean region of physical, human veekonomik features, parts of the Mediterranean region the physical, social and economic characteristics, sections
COG259	Hydrography I	Fundamental concepts regarding hydrography, the importance of water for geography, other sciences which help to hydrography, rivers, underground water, springs, drinking and using water.
COG261	Introduction to Geographical Information Systems	Definitions of GIS and its relations with geography, Geographical data and its abstraction, Components of a GIS, Spatial analysis techniques with GIS, Cartographical design in GIS.
COG263	Political Geography	Geopolitics, and the limits of state land development, the role of governments, assesment of land claims, the complexity of political activities at regional and local levels.
COG265	Access Geography	Development of Transport Geography, Marine Transport, Railways, Airlines, Highways
COG267	Field Work I	Preparatory works that need to be done before the field studies, methods need to be known during field studies, ethical subjects related to field studies, report writing about field studies.
COG269	Tourism Geography	Concepts of tourism and tourist, relationship between tourism and geography, development of tourism in the world, recent tourism types and approaches, impacts of tourism.
COG271	Climate Classifications	Basis of climate classification according to air masses and fronts, Genetic climate classification of Strahler, Genetic climate classification of Allisow, Rubinstein and Drosdow.
COG273	Agriculture Geography	Definitions and concepts of agricultural geography, historical development of economic activities, natural environment conditions in agriculture, general agricultural policies, crop production, fishery products, Forestry, Agricultural development in world, factors which affect agriculture.
COG275	Oceanography	Basic concepts related to oceans and seas, physical and chemical features of the oceans and seas, distribution of oceans and seas on Earth's surface

**IV. Semester Courses**

Course ID	Course Title	Course Content
COG252	Geomorphology II	Terms related to karst geomorphology, karstification conditions; karstification development and distribution of karst areas, the major karst shapes, the arid and semi-arid regions of the factors that limit, the formation conditions of these regions, the transfer of information about major forms of the arid and semi-arid region.
COG254	Urban Settlements	This course includes definition of urban areas, differences in urban- rural settlements, urbanization, historical evaluation of urbanization in Turkey and world, factors affecting urbanization, types of cities throughout history, factors affecting the distribution of cities, general and specific urban functions, classification of cities, types of cities based on functions with examples from Turkey and world.
COG256	Industrial Geography	Industrial Geography interests, Energy Usage, Household Production and Studio Production, Industrial Revolution, Railways and Industrial Development, Industrialization Periods, Determinants of choice in the industry Location, Location Theories of Industrial Organization, World Industrial Zones, Industrial Society, Industrial and Environmental Problems
COG258	Inner Regions of Turkey	Concepts of location, department, region, and area; physical, social and economic characteristics of the Central Anatolia Region and its sections; physical, social and economic characteristics of the Southeastern Anatolia Region and its sections, physical, social and economic characteristics of the East Anatolia Region and its sections.
COG260	Hydrography II	Definition of the lakes, lake types according to the occurrence, creation of the seas and the oceans, the features of temperature, salinity, and the density, main warm and cold currents.
COG262	Geographical Information Systems I	Methods of progressive geographic analysis, geographical concepts and techniques of spatial analysis (field information systems, environmental practices, emergency management etc.), practising domains and human factors (political, cultural, legal, financial etc.)
COG264	Geography of Continents	Formation of the continents, the American continent, the continent of Europe, the Asian continent, the continent of Africa, Oceania continent, the continent of Antarctica.
COG266	Global Climate Changes	Concepts of the weather, climate and climate changes, observed changes in the global climate system, and to dwell on the causes of these changes in future climate model results for the potential effects of climate change and international action to protect the climate.
COG268	Field Work II	Field study lesson planning, preparation for the first field study, the first field work, the first field survey data collection, the first field study report writing, preparation for the second field study, the third field work.



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COG270	Natural and Cultural Heritage of Turkey	Concepts of natural and cultural heritage, examples of the Earth's natural, cultural, and complex heritages, natural and cultural heritage areas in Turkey, natural parks and nature protection areas in Turkey, protection ways of natural and cultural heritage.
COG272	Applied Climatology	Temperature, precipitation, wind and related applications, Classification of synoptic maps, and climate types.
COG274	Geographical Statistics	The definition and importance of statistics in geography, related terms, frequency distributions, mode, median, percentiles, measures of central tendency to comment on, change dimensions, discusses the relations between the variables. The similarities and differences between the data, the effect of geographical factors on the similarities and differences, geometric shapes to be expressed statistical data, charts, diagrams, and kartograms.
COG276	Social Structure and Spatial Diversities of Turkey	This course aims to teach the concept of social structure, which continued until the Republican period, starting from the Ottoman era of modernization efforts, the effect of the reforms of Atatürk society, civil society and its problems, the economy, the structure of working life and their effects in Turkey, in the historical process of urbanization in Turkey, education and family issues, The effects of globalization, the social structure will be covered. Turkey's social, social, cultural, economic and political events, and provide information on the spatial differentiation.

**V. Semester Courses**

Course ID	Course Title	Course Content
COG351	Physical Geography of Turkey I	Turkey's geographic location and characteristics, Turkey's geological characteristics, tectonic features, Turkey shapes, mountains, plateaus, plains, river topography, karst topography, glacial and coastal topography, climate, general features of Turkey, the factors of Turkey that affect the climate.
COG353	Geomorphology III	The agents and the factors which compose the coastal, volcanic, and glacial topographies, main erosional and depositional formations on these areas, some examples of these topographies' forms from Turkey and the world.
COG355	Vegetation Geography I	Definition of vegetation geography, basic conditions of plant ecology, plant growing conditions; temperature, precipitation, wind, and relief conditions for plant raising, soil features for plant raising.
COG357	Geography of The Countries of the European Union	The process of the EU institutions, bodies, funds and their usage areas, EU - Turkey relations, the general physical, human, and political features of the EU countries.
COG359	Geographical Information Systems II	Land Information Systems, Environmental Databases, Urban Information Systems, Emergency and Dispatch Management, Spatial analysis with GIS, Political, cultural, legal and financial aspects of GIS.
COG361	Soil Geography I	Soil terminology, the factors which impact soil creation, the importance of the clay minerals for the soil and soil using, cation exchange capacity, determination of agricultural soil fertility, soil texture examination, examining the soil profile.

**Selective Courses**

COG365	Natural Resources and Energy	Natural Resource Concept and Classification of Natural Resources, Water resources, properties, our region and Turkey's water resources, soil resources, properties, our region and Turkey's soil resources, groundwater resources, biological resources, properties and biological resources in our region, and Turkey, Natural as a source of air, air pollution, and the relevant legislation for the protection of water resources studies, energy Resources, Mining of coal, Mining of coal, lignite, oil, natural gas, water power, nuclear energy, wind energy, solar energy, geothermal energy, biomass, ocean energy, tidal energy.
COG367	Field Work III	The first field study, preparation for the first field study, the first field survey data collection, the first field study report writing, preparation for the second field study, the second field work, the second field survey data collection, the second field study report, the third field work preparation, the third field work, The third field survey data collection, the third field study report, cumulative evaluation of all field studies.
COG369	Ecotourism	Definition of ecotourism, ecotourism features and the importance of the correct use of the natural resources, cultural resources and the proper use of the world, in Turkey, the proper use of natural resources, proper use of natural resources in Turkey, Turkey, the correct use of cultural resources, cultural resources towards Turkey use, examples of areas of ecotourism around the world, Turkey, examples of ecotourism areas, General evaluation.
COG371	Research Methods in Geography	Principles of human and physical geography research methods, data collection, analysis, statistical evaluation of data. In addition, diagrams and maps, the visual presentation of the data collected and evaluated, the report consists of the points to be aware of and dissertation writing.
COG373	Applied Geomorphology	Causes which effect natural environment, examples to describe the interaction between natural environment and human activities. Methods and techniques, problems and solving suggests.
COG375	Ottoman Turkish I	Ottoman-Arabic alphabet, Ottoman ortography, Ottoman glossary, Ottoman text analysis

**Common Course of Interdepartments**

COG363	Cultural Geography	Concepts and components of culture (primitive cultures, sub culture), Languages and Religions, Culture, history, geography and cultural geography, culture-environment interaction (climate and culture, morphology and ecology of culture and cultural), Rural culture, urban culture (Poverty culture, slums and ghettos), Urban culture (Industrial culture and high culture), Folk culture and popular culture, geography, cultural mobility and exchange (cultural diffusion, integration, delay, corruption, and cultural conflict), Culture regions (Western cultural district, the Latin in culture and Slavic-Russian cultural district, Cultural regions (in Islamic culture, culture in Africa, Eastern and Pacific culture area), Turkey, cultural sites, cultural change in Turkey.
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**VI. Semester Courses**

Course ID	Course Title	Course Content
COG352	Physical Geography of Turkey II	Climatic elements in Turkey, climate types of Turkey, hydrographic features of Turkey, Turkey's rivers, streams, lakes; river regimes in Turkey, Turkey's groundwater; spas and springs in Turkey.
COG354	Human Geography of Turkey	Turkey's location, geopolitics, population, population and settlement in Turkey.
COG356	Vegetation Geography II	Concepts related to plant communities, General characteristics of plant communities, distribution of plant communities on Earth.
COG358	Geography of Africa	The learning objectives of this course include the physical, human and economic characteristics of continent of Africa, geological and geomorphological structure of the continent, societies, natural resources, cultural structure and countries of the continent.
COG360	Geographical Information Systems III	Distributed spatial databases, Spatial data standards and metadata, GIS applications public bodies and e-government, GIS applications in bussines, GIS applications for scientific purposes
COG362	Soil Geography II	Methods of soil classification, major soil groups, soil mapping techniques, geographic distributions of the soil types, soil erosion, fertilizer types, soils of Turkey.
<b>Selective Courses</b>		
COG366	Health Geography	The definition and components of Health Geography, spatial analysis of historical development, Spatial epidemiology of diseases, Geography of Health Systems.
COG368	Field Work IV	The first field work, the first field survey data collection, the first field study report writing, preparation for the second field study, the second field work, the second field survey data collection, the second field study report, the third field work preparation, the third field work, the third field survey data collection, the third field study report, field studies, public evaluation.
COG370	Administrative Geography	The subjects of administrative geography, functions of settlements, the structure of administrative division in Turkey and public administration departments, arrangements need to be done in geographical areas.
COG372	Quaternary Geography	General properties of the Quaternary, regional effects of climate changes in Quaternary, Quaternary fossils, Quaternary cronology, glacial periods, Quaternary in Turkey.
COG374	Geography of Neighboring Countries	This course includes the research on neighboring countries of Turkey, analyzing the mutual relationships I relation to geography.
COG376	Ottoman Turkish II	Introduction of features of Ottoman alphabet and characters, orthographic exercises with Ottoman alphabet, readings from printed and hand-writing texts of Ottoman poets and writers.
<b>Common Course of Interdepartments</b>		
COG364	Turkey in Terms of Political Geography	The basic concepts of political geography, historical development process arguments put forward, the effect of geographical factors on political geography, political geography of Turkey in terms of the international organizations in terms of political geography the main characteristics and assessments on a regional basis.

**VII. Semester Courses**

Course ID	Course Title	Course Content
COG451	Geography of Disasters	Definition of disaster, historical development, disaster types according to the speed and origin, impacts of disasters, disaster management.
COG453	Economic Geography of Turkey I	Economic geography and development in Turkey, factors affecting the economy of Turkey, Turkey, agriculture, cultivation of factors affecting the cultivation of cereals, industrial plants, agriculture, horticulture, animal husbandry in Turkey, Turkey and Geographical Distribution of the animal population, the geographical distribution of forests in Turkey , the location of forests in our economy, mines in Turkey (Metallic Ores, metals in Turkey), Turkey's main energy sources and energy production energy sources.
COG455	Seminar	Literature survey, data collection, data analysis, report writing.
COG457	Remote Sensing	Remote Sensing and Geography, Remote Sensing history, the basis of the map interpretation, remote sensing films, filters, and cameras.
<b>Selective Courses</b>		
COG461	Geography of America	This course is aimed to study physical, human and economic geography of North and South American continents, structure of geology and geomorphology, settlements, natural resources and culture and countries of the continents.
COG463	Field Work V	Field work planning for the course, the first field work, second field work, third field work, fourth field studies, general assesment of field works.
COG465	Globalization and Turkey	The concept of Globalization, dimensions of Globalization, Economic Scale, Political Dimension, Socio-cultural scale, Today's situation of globalization.
COG467	Historical Geography	What is geography? Basic principles, What is history? Basic principles, Geography and space, geographical factors and the effect of the settlements, the role of geographical factors, wars, economic impact of geographical factors, geographic factors, the effects of political and social life, economy and religion, the effects of geographical factors, geographic factors, the effects of cultural life.
COG469	Analysis of Scientific Geographic Manuscripts I	This course includes academic writing rules and regulations in the text related to geography, scientific nature of geographical manuscripts, writing analysis, scientific criteria in academic books and articles, readings, summarizing and critical evaluation of manuscripts.
COG471	Professional English I	In this course the learning objectives include understanding the English terminologies in geography, evaluation regarding reading and writing in English, English to Turkish and Turkish to English translation of scientific manuscripts.
COG473	Land Use and Planning I	The contents of this course include definition of land, land use, reasons of planning, parameters to be considered in land use planning, techniques and methods of land use planning, formulation of models of land use and identification of potential of land use.



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<b>Common Course of Interdepartments</b>		
COG409	Problems in Today's World	Natural disasters, (global warming, earthquakes, tsunamis, etc.), Environmental problems, limitation of natural resources, hunger, poverty, unemployment, human rights, unplanned population growth, racism, contagious and infectious diseases, problems such as terrorism, to solve these problems of national and international organizations.

**VIII. Semester Courses**

Course ID	Course Title	Course Content
COG452	Zoogeography	The factors which affect animals, the ecosystem concept, Silvea, Hylea, Sklereia, faunistic and geological status, distribution patterns of animals, lands zoogeographical regions, animal migrations, relations between animals and people.
COG454	Economic Geography of Turkey II	Conditions of the industrial organizations in Turkey, development of industry, the major industrial groups in Turkey, the geographical distribution of industrial activities in Turkey, rail, sea, and air transportations and the pipelines, the Turkish domestic trade and foreign trade properties.
COG456	Project	Method development for academic researches, making comments, and evaluations for researches, and developing academic writing skills.
COG458	Remote Sensing Applications	Basic concepts of remote sensing, historical development, photogrammetry, remote sensing and the importance of comparison and its applications in daily life. Examination of the electromagnetic spectrum, visible, infrared, thermal and radar images, the basic features of this type of hususular to be aware of the interpretation of the images.

**Selective Courses**

COG462	Geography of Asia	This course includes the physical, human and economic geography of the continent of Asia, geology and geomorphological characteristics of the continent, settlements, natural resources, culture and countries of the continent.
COG464	Field Work VI	Field work planning the course, the first field study in preparation for the Second field work, the third field work, field studies, public evaluation.
COG466	Terminological Imprecisions in Geography	This course includes differences between concept and terminology, the proper use of accurate terms in physical, human and economic geography.
COG468	Sustainable Development and Environmental Problems	Sustainability concept and its history; sustainability indexes; Environmental sustainability index and ecological footprint; Problems of population growth, food and poverty; Water supply problem; Urban air pollution; Solid wastes and recycling; Energy problem and alternative energy sources; Global warming; Economical development and the environment; Possibility and limits of sustainable development.
COG470	Analysis of Scientific Geographic Manuscripts II	Academic books and articles in scientific criteria, text readings, text, reviews, text, summarize, analysis of articles and books, articles, and critique of the book, writing, geographical study of the texts.
COG472	Professional English II	The second course of Professional English includes understanding, writing and translating the research work in national and international journals, theses and research papers.
COG474	Land Use and Planning II	The contents of this course include definition and introduction of features of land, land use planning in context of geographical characteristics.

**Common Course of Interdepartments**

COG460	Geography of Turkey	This course includes location characteristics of Turkey, features of geology and geomorphology, hydrography, land and soil, vegetation, population and settlement patterns, agriculture, livestock, forestry, mining, energy, industry, transportation and tourism of Turkey.
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