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Courses Description

College: Prince El- Hassan Bin Talal For Natural Resources & Environment

Couse ID: 803324	Description: Water Chemistry
Full Course Description:	
Couse ID: 1203100	Description: Principles of Environmental Science
Full Course Description:	Earth structure and spheres, natural ecosystems, structure of ecosystems, energy flow in ecosystem, biogeochemical cycles, population dynamics, human population, natural resources: water, energy and mineral resources, water pollution, air pollution, soil pollution.
Couse ID: 1203101	Description: Sustainable Development
Full Course Description:	This course provides a holistic,cognitive ,and integrative to better understand sustainable development,and forms the nucleus and reference which the students from different disciplines & levels can use.
	The course is divided into four parts. The first part presents the basic concepts of sustainable development, its requirements, strategies & indicators. The remaining three parts review the three dimensions of sustainable development: The environmental, the socila, and the economic.
	The course focuses on Jordan. It reviews the uurent of enviromntal, social, and economic situation in Jordan, and the requirements & strategies for sustainable development from a local perspective.
Couse ID: 1203220	Description: Surface Water Hydrology
Full Course Description:	Elements of hydrologic cycle, precipitation, spatial and temporal distribution of rainfall, measurements and instruments for measuring precipitation, evaporation from free water bodies, transpiration from vegetation, evapotranspiration, infiltration, infiltration models, stream flows, measurements of stream flows, surfaces runoff, hydrographs, unit hydrograph, statistical analysis in hydrology, movement and distribution of groundwater and its relation to surface hydrology. Application aspects on environmental hydrology.
Couse ID: 1203221	Description: Applied Fluid Mechanics
Full Course Description:	
Couse ID: 1203231	Description: Environmental Science
Full Course Description:	Defining the environment, the ecosystem and its characteristics, as well as material and energy flow, population dynamics and its influence on the environment, dynamics of human population, water, soil and energy resources and tools to manage those resources. Students will also become more oriented to the environmental pollution of water, air, soil and noise pollution and environmental impact assessment.
Couse ID: 1203251	Description: Environmental Statistics
Full Course Description:	Discrete and continuous probability distributions, tests of significance, confidence intervals, environmental monitoring, impact assessment and it will deal with techniques to handle data correlated in space and time, time series analysis, spatial data analysis and using Geographic Information System.
Couse ID: 1203261	Description: Meteorology
Full Course Description:	Structure of the atmosphere, temperature & heat transfer, moisture content of the atmosphere, dew temperature, frost temperature, clouds, air masses, fronts, cyclones, and anti-cyclones.

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Courses Description

College: Prince El- Hassan Bin Talal For Natural Resources & Environment

Couse ID: 1203311	Description: Solid Waste Management
Full Course Description:	Concepts and principles applied to the management of municipal solid waste (MSW), regulatory aspects and hierarchy of integrated solid waste management; characterization and properties of MSW; municipal wastewater sludge utilization; hazardous waste found in MSW; collection, transfer, and transport of solid waste; separation, processing, combustion, composting, and recycling of waste material; the landfill method of solid waste disposal which encompasses guidelines for design, construction, operation, sitting, monitoring, remedial actions, and closure of landfills.
Couse ID: 1203320	Description: Water Chemistry
Full Course Description:	The properties of the water molecule, its chemical and physical characteristic, chemical reactions and equilibrium, principles of thermodynamics acid-base reactions, mineral equilibrium. The course discusses redox reactions, water genesis, chemical, physical and biological analysis, and water quality standards. Field and lab applications.
Couse ID: 1203321	Description: Surface Water Hydrology
Full Course Description:	
Couse ID: 1203322	Description: Groundwater Hydrology
Full Course Description:	The hydrologic cycle, properties of aquifers: porosity, permeability, transmissivity, storativity, principles of groundwater flow equations, soil moisture and groundwater recharge, groundwater flow to wells. Also the course discusses wells hydraulics and aquifer testing, ground water resources in Jordan.
Couse ID: 1203323	Description: Water Chemistry
Full Course Description:	
Couse ID: 1203331	Description: Health Safety & Environment
Full Course Description:	Methods of dealing and handling hazardous substances inside and outside facilities and its impact on the human health and the environment, mitigation measures that must be taken to reduce environmental and health impacts, the roll of media to promote the awareness level among employees and local community, complying with national and international standards and guidelines such as OSHA and EPA.
Couse ID: 1203332	Description: Environmental Management Systems
Full Course Description:	The importance of the environment management systems for the industries, ISO as a reference point in the global economic competition, requirements that are necessary to succeed in the global market including environmental auditing, environmental systems, environmental systems measures and preparing environmental reports.
Couse ID: 1203333	Description: Environmental Monitoring
Full Course Description:	
Couse ID: 1203334	Description: Water & Environmental Economics
Full Course Description:	
Couse ID: 1203335	Description: Environmental Policy & Global Treaties
Full Course Description:	Environmental protection and legislation in relation to population growth control, administrative laws in environment including laws for protection of air, water, food, soil, and for control of noise, light and radiation hazard.

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Courses Description

College: Prince El- Hassan Bin Talal For Natural Resources & Environment

Couse ID: 1203341	Description: Water Microbiology
Full Course Description:	Microbial populations in water, classification and cultivation, microbial nutrition requirements, isolation and transfer techniques, enumeration, metabolism, and control of microbial growth
	and water- borne diseases, indicator microorganisms and the role of microbes in water
Course ID: 1203411	pollution control and environmental health.
Couse ID. 1203411	Description. Hazardous waste management
Full Course Description:	Engineering principles of hazardous waste management, basic concepts, terminology, properties and behavior of hazardous wastes (toxity, reactivity, corrosivity and flammability), proper management practices, risk assessment, site remediation technologies and processes of disposal practices according to national and international standards, design of
Couse ID: 1203412	Description: Planning & Water Resources Management
	Description. Flamming & Water Resources Management
Full Course Description:	
Couse ID: 1203420	Description: Industrial Wastewater Management
Full Course Description:	
	Chemical and physical properties of industrial water, impact of industrial wastewater on water bodies and the environment, minimizing industrial wastewater effluent volume through modification, reduction and recycling processes, pre-treatment standards, reuse of industrial water, application of quality control in regard to selected industries and, finally, industrial wastewater technology processes.
Couse ID: 1203421	Description: Wastewater Treatment
Full Course Description:	Wastewater characteristics (physical, chemical and biological), wastewater treatment objectives and the different types of treatment processes, biological treatment processes including, activated sludge and the trickling filter processes, standards of water quality.
Couse ID: 1203422	Description: Reuse of Reclaimed Water
Full Course Description:	
Couse ID: 1203423	Description: Industrial Wastewater Management
Full Course Description:	Chemical and physical properties of industrial water, impact of industrial wastewater on water bodies and the environment, minimizing industrial wastewater effluent volume through modification, reduction and recycling processes, pre-treatment standards, reuse of industrial water, application of quality control in regard to selected industries and, finally, industrial wastewater technology processes.
Couse ID: 1203424	Description: Treatment of Drinking Water
Full Course Description:	Physical, chemical and biological characteristics of drinking water, water contaminants, physical, chemical and biological treatment methods includes coagulation, flocculation, sedimentation, filtration, disinfections, softening, removal of taste and odor.
Couse ID: 1203425	Description: Integrated Water Resources Management
Full Course Description:	The concept of integrated water resources management (IWRM), IWRM principals, basics of water management, how IWRM is applied and practiced the legislative framework of the IWRM, the institutional framework of the IWRM, application of IWRM in agriculture, environment water supply and waste water process.
Couse ID: 1203431	Description: Environmental Impact Assessment
Full Course Description:	Objectives and basics of the environmental impact assessment (EIA), monitoring the environmental components, methods used to conduct an EIA, assessment of the anthropogenic activities on the living and non-living environmental elements, the impact of the anthropogenic activity on the culture, society, and the economy, preparing an EIA report, application of EIA on a case study.

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Courses Description

College: Prince El- Hassan Bin Talal For Natural Resources & Environment

Couse ID: 1203432	Description: Natural Disasters Management
Full Course Description:	Fundamental concepts in Natural Disasters Management, how to deal with risk, the relation with the public, strategies of crisis management, technologies used, communication ways that enable prediction and control, global challenges in crisis management.
Couse ID: 1203433	Description: Environmental Sociology
Full Course Description:	The interaction relationship between human societies and the physical environment, the concept of environmental sociology, its subject and method), the environmental consequences that are resulted from industrial, economic, and social activities, promote critical thinking of how and why environmental problems occur, how to deal with environmental problems.
Couse ID: 1203434	Description: Environmental Concern
Full Course Description:	Defining environmental concern and its components; factors influencing knowledge, skills, attitudes and behaviors toward the environment; the relationship between attitudes and behaviors; and methods and scales to measure environmental concern at different levels (local, national and global).
Couse ID: 1203435	Description: Environmental Management
Full Course Description:	
Couse ID: 1203436	Description: Sustainable Development of Natural Resources
Full Course Description:	meaning of sustainability, its requirements, types of sustainability, environmental sustainability, economic sustainability, social sustainability, meaning of development, and models of sustainability around the world, answering the questions: Is it possible to achieve sustainable development? what to sustain, why to sustain, how to sustain?
Couse ID: 1203437	Description: Spatial Analysis & Geovisualization for the Environment
Full Course Description:	How spatial techniques can be effectively applied in a geographic information systems to study spatial patterns in environment, distributions, associations, an overview of the techniques and tools designed to interactively visualize spatial phenomena using computer systems, working with maps, interactive maps, three dimensional scenes, summary charts and tables; development, integration, and visualization of spatial data for characterizing environmental systems.
Couse ID: 1203451	Description: Computer Applications in Hydrology
Full Course Description:	
Couse ID: 1203461	Description: Air Pollution
Full Course Description:	
Couse ID: 1203462	Description: Air Pollution
Full Course Description:	The nature and effects of air pollution including the structure and physical behavior of the atmosphere, types and origins of air pollutants, chemical reactions in the atmosphere, atmospheric dispersion, techniques of pollutant evaluation and surveys and effects of air pollution on health and other aspects of urban and natural environments.
Couse ID: 1203470	Description: Special Topics
Full Course Description:	Advanced topics related to water and environmental research such as environmental impact assessment of water and environmental projects, watershed management, use of GIS in hydrologic and hydrogeologic modeling, emerging issues in the global and local environmental.
Couse ID: 1203481	Description: Energy Resources & Environment
Full Course Description:	Renewable and non renewable resources, past, present, and future energy consumption patterns, fossil energy, oil, natural gas, and coal resources, biogas, nuclear energy, biomass energy, the environmental impact of fossil energy conversion including air pollution, acid rain, and global climate change.

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Courses Description

College: Prince El- Hassan Bin Talal For Natural Resources & Environment

Couse ID: 1203482	Description: Radiation Protection
Full Course Description:	Types of radiation, radiation dose, risks of exposure to radiation and radioactive materials,
	radiation doses as low as reasonably achievable (ALARA).
Couse ID: 1203490	Description: Field Training
Full Course Description:	The training program will support students by facilitating the transition between academic
	studies and work experiences. Training program allows students to gain relevant work and technical experience to enhance their university studies. Students get a head start on
	networking with professionals, defining their career goals, and developing communication
Couse ID: 1203/01	and interpersonal skills.
	Description. Seminar
Full Course Description:	Description: Special Topics
	Description. Special Topics
Full Course Description:	Departmenter Environmental Science
	Description. Environmental Science
Full Course Description:	Descriptions Natural Waters Ossachemistry Lab
Couse ID: 111203212	Description: Natural Waters Geochemistry Lab
Full Course Description:	k second s
Couse ID: 111203213	Description: Water Microbiology
Full Course Description:	g
Couse ID: 111203221	Description: Principles of Environmental Management
Full Course Description:	g
Couse ID: 111203222	Description: Environmental Policies and Legislations
Full Course Description:	;
Couse ID: 111203254	Description: Environmental Sociology
Full Course Description:	h
Couse ID: 111203255	Description: Environmental & Water Economics
Full Course Description:	Ĺ
Couse ID: 111203310	Description: Environmental Soil Physics
Full Course Description:	;I
Couse ID: 111203314	Description: Groundwater Modeling
Full Course Description:	g
Couse ID: 111203323	Description: Environmental Management Systems
Full Course Description:	g
Couse ID: 111203324	Description: Environmental Impact Assessment
Full Course Description:	df
Couse ID: 111203326	Description: Environmental Monitoring
Full Course Description:	yh
Couse ID: 111203333	Description: Air Pollution
Full Course Description:	

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Courses Description

Couse ID: 111203344 Description: Environmental Geovisualization	
Full Course Description: g	
Couse ID: 111203415 Description: Surface Water Modeling	
Full Course Description: g	
Couse ID: 111203416 Description: Drinking Water Treatment	
Full Course Description: i	
Couse ID: 111203417 Description: Wastewater Treatment	
Full Course Description: h	
Couse ID: 111203418 Description: Water Desalinization	
Full Course Description: g	
Couse ID: 111203425 Description: Environmental Auditing and Inspection	
Full Course Description: ;/	
Couse ID: 111203427 Description: Air Quality Monitoring	
Full Course Description: ;	
Couse ID: 111203428 Description: Water Resources Planning and Manag	ement
Full Course Description: m	
Couse ID: 1712031150 Description: Environmental Statistics	
Full Course Description: g	
Couse ID: 1712031210 Description: Water Chemistry	
Full Course Description: d	
Couse ID: 1712031230 Description: Water Microbiology	
Full Course Description: d	
Full Course Description: d Couse ID: 1712031240 Description: Geographic Information Systems	
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Courses Description

College: Prince El- Hassan Bin Talal For Natural Resources & Environment

Department: Water & Environment Management
Couse ID: 1712031311 Description: Surface Water Hydrology
Full Course Description: ggg
Couse ID: 1712031312 Description: Water Quality
Full Course Description: hh
Couse ID: 1712031313 Description: Treatment of Drinking Water
Full Course Description: h
Couse ID: 1712031314 Description: Ground Water Modeling
Full Course Description: gg
Couse ID: 1712031315 Description: Surface Water Modeling
Full Course Description: gg
Couse ID: 1712031320 Description: Environmental Management Systems
Full Course Description: g
Couse ID: 1712031321 Description: Occupational and Environmental Safety and Health
Full Course Description: hh
Couse ID: 1712031322 Description: Environmental Monitoring
Full Course Description: ff
Couse ID: 1712031330 Description: Solid & Hazardous Waste
Full Course Description: gg
Couse ID:1712031340Description:Environmental Geovisualization
Full Course Description:
Couse ID: 1712031410 Description: Wastewater Treatment
Full Course Description: hh
Couse ID:1712031411Description:Water Desalinization
Full Course Description: aaa
Couse ID: 1712031412 Description: Water Treatment by Member Technology
Full Course Description: gg
Couse ID:1712031413Description:Water Wells Drilling and Design
Full Course Description: ff
Couse ID: 1712031420 Description: Environmental Impact Assessment
Full Course Description: hhh
Couse ID:1712031421Description:Environmental Policies
Full Course Description: h
Couse ID: 1712031422 Description: Water Resources Planning and Management
Full Course Description: g
Couse ID: 1712031423 Description: Risk Assessment Management
Full Course Description: h
Couse ID: 1712031424 Description: Environmental Auditing and Inspection
Full Course Description: hh

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Courses Description

College:	Prince El-	Hassan	Bin T	alal For	Natural	Resources	& Environmer	٦t
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Couse ID: 1712031425 Description: Industrial Wastewater Management
Full Course Description: hh
Couse ID: 1712031430Description: Air Pollution
Full Course Description: g
Couse ID: 1712031431 Description: Climate Change
Full Course Description: gg
Couse ID: 1712031432 Description: Surface Water Pollution
Full Course Description: ggg
Couse ID:1712031433Description: Air Quality Monitoring
Full Course Description: hh
Couse ID: 1712031450Description: Field Training
Full Course Description: hh
Couse ID: 1712031451 Description: Special Topics