

Courses Description

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

Department: Water & Environment Management

Course ID: 803799 **Description:** Thesis

Full Course Description: The course trains student in planning and implementing scientific research through the selection of a research topic.

Course ID: 1203711 **Description:** Environmental Impact Assessment

Full Course Description: The structure of an environmental impact assessment (EIA), national guidelines and requirements for EIAs, evolution of EIA, strategic environmental assessment, social impact assessment, public involvement, the EIA process (screening , scoping, assessing, mitigation and impact management, reporting, reviewing, decision making, monitoring/ implementing/auditing), methodologies (checklists, matrices, models, expert systems, networks), the course components will be integrated in case studies from Jordan.

Course ID: 1203712 **Description:** Environmental Legislations

Full Course Description: An overview of the history and current application of laws and rules used to protect the environment, the economic effects of environmental policies nationally and globally. Particular issues include the costs and benefits of alternative environmental policies to deal with air pollution, water quality, toxic substances, solid waste, air pollution and global warming in the context of environmental sustainability.

Course ID: 1203713 **Description:** Environmental Management

Full Course Description: Topics cover product-lifecycle analysis, overview of regulations (National and global), resource management, risk analysis, integrated waste management, pollution prevention planning and implementation, total quality environmental management (TQEM), the importance of the environment management systems for the industries, requirements that are necessary to succeed in the global market including environmental auditing, environmental systems, environmental systems measures, environmental management systems (EMS) and ISO 14000.

Course ID: 1203723 **Description:** Integrated Water Resources Management

Full Course Description: The integrated water resources management (IWRM) concept, frameworks, stakeholders and conflict resolution, economic dimensions of (IWRM) watershed approaches to maintenance of the hydrological, chemical, and biological integrity of the nation's waters, water supply sanitation and health, balancing water supply and demand, water supply topics include rainfall runoff relationships, probabilistic flow analysis, multiple-objective reservoir siting and operation, safe yield analysis, water demand modeling, valuing water resources, private sector partnership in water management, environment and IWRM, water quality topics include regulatory requirements, non- point source runoff, point source di

Course ID: 1203731 **Description:** Hazardous Waste Management

Full Course Description: Regulatory requirements, fate and transport of contaminants, physical, chemical, and biological treatment, land disposal restrictions, guidelines for design and construction of hazardous waste landfills, environmental monitoring systems, management of medical waste and treatment options, management of underground and aboveground storage tanks, toxicology and risk assessment, pollution prevention and waste minimization, hazardous waste facilities, closure of landfill , and site remediation processes, field application.

Course ID: 1203761 **Description:** Climate Change and Global Warming

Full Course Description: Climate history of the Earth, climate processes, scales of heat and mass transfers in the atmosphere, the role of oceans, scales of climate change, historical and future climate change, global warming, causes of climate change, modeling the climate, predicting climate change, the rate of climate change, human effects on climate, health impacts of climate change, ecosystem impacts of climate change, options for response, linkages with resource management and sustainable development, ongoing policy debates at the international scale including responses to the Kyoto Protocol and others .

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Course ID: 3803799 **Description:** Thesis

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Course ID: 6803799 **Description:** Thesis

Full Course Description: The course trains student in planning and implementing scientific research through the selection of a research topic.

Course ID: 9803799 **Description:** Thesis

Full Course Description: The course trains student in planning and implementing scientific research through the selection of a research topic.

Course ID: 141203710 **Description:** Environmental Impact Assessment

Full Course Description: The structure of an environmental impact assessment (EIA), national guidelines and requirements for EIAs, evolution of EIA, strategic environmental assessment, social impact assessment, public involvement, the EIA process (screening , scoping, assessing, mitigation and impact management, reporting, reviewing, decision making, monitoring/ implementing/auditing), methodologies (checklists, matrices, models, expert systems, networks), the course components will be integrated in case studies from Jordan.

Course ID: 141203712 **Description:** Environmental Legislations

Full Course Description: An overview of the history and current application of laws and rules used to protect the environment, the economic effects of environmental policies nationally and globally. Particular issues include the costs and benefits of alternative environmental policies to deal with air pollution, water quality, toxic substances, solid waste, air pollution and global warming in the context of environmental sustainability.

Course ID: 141203714 **Description:** Integrated Water Resources Management

Full Course Description: The integrated water resources management (IWRM) concept, frameworks, stakeholders and conflict resolution, economic dimensions of (IWRM) watershed approaches to maintenance of the hydrological, chemical, and biological integrity of the nation's waters, water supply sanitation and health, balancing water supply and demand, water supply topics include rainfall runoff relationships, probabilistic flow analysis, multiple-objective reservoir siting and operation, safe yield analysis, water demand modeling, valuing water resources, private sector partnership in water management, environment and IWRM, water quality topics include regulatory requirements, non- point source runoff, point source di

Course ID: 141203715 **Description:** Environmental Management

Full Course Description: ب

Course ID: 141203716 **Description:** Hazardous Waste Management

Full Course Description: Regulatory requirements, fate and transport of contaminants, physical, chemical, and biological treatment, land disposal restrictions, guidelines for design and construction of hazardous waste landfills, environmental monitoring systems, management of medical waste and treatment options, management of underground and aboveground storage tanks, toxicology and risk assessment, pollution prevention and waste minimization, hazardous waste facilities, closure of landfill , and site remediation processes, field application.

Courses Description

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

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Course ID: 141203720 **Description:** Environmental Pollution and Remediation

Full Course Description: explain pollution and degradation of environmental quality as an example of the interactions between natural and human systems. It will enable students to understand environmental problems, looking at causal linkages between pollution sources, exposure pathways and impacts to environmental quality and human health. □

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The complex relationships between environmental factors and human health, taking into account multiple pathways and interactions, will be assessed in a broader spatial, socio-economic and cultural context.

Course ID: 141203721 **Description:** Desertification

Full Course Description: learning the principles of geo-ecological field inventory and field measurements techniques. This will be illustrated within a field area where desertification and land degradation are important processes.

Course ID: 141203730 **Description:** Global Warming and Climate Change

Full Course Description: This class describes the science of global warming and the forecast for humans' impact on Earth's climate. The course brings together insights and perspectives from physics, chemistry, biology, earth and atmospheric sciences, and even some economics—all based on a foundation of mathematics (algebra).

Course ID: 141203732 **Description:** Scientific Research Methodology

Full Course Description: سيتعلم الطلاب طرق البحث الكمية والنوعية. سوف يتعلم الطالب خصوصيات وعموميات عملية البحث وما يشكل بيانات بحثية عالية الجودة بالإضافة إلى أشياء منهجية البحث مثل طرق جمع البيانات والتصاميم التجريبية.

Course ID: 141203733 **Description:** Special Topics

Full Course Description: Students will learn a range of advanced disparate topics in the field of earth sciences and environment.

Course ID: 141203734 **Description:** Advanced Environmental Science

Full Course Description: Students will learn a range of topics related to environmental technology

Course ID: 141203740 **Description:** Remote Sensing Application in Environment

Full Course Description: This course will enable you to effectively use remote sensing data and methods in research and resource management in fields ranging from conservation ecology, GIS/informatics, environmental health and justice, climate change, geology, urban studies, biodiversity, land management, sustainability science, and many others

Course ID: 141203741 **Description:** Environmental Geophysics

Full Course Description: Environmental Geophysics explores the physics of the earth related to environmental problem

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