Admission and Registratuin Unit

Courses Description

College: Queen Rania'S Faculty Of Tourism& Heritage

Department: Archaeological Conservation Science

Couse ID: 903111 Description: Principles of Conservation Science

Full Course Description: Examines of the concept, nature, history, and main principles of conservation science. It

also discusses practical, professional and ethical issues related to conservation work. It differentiates between a group of terms related to conservation works such as restoration, preservation, reconstruction and conservation. It focuses on the role of conservation in related disciplines. It will also introduce the main charters and legislation that deal control the conservation work. It also introduces the different levels of conservation work. It covers also the nature, causes of deterioration and main conservation methods of archaeological

Date: 26-04-2024

Page Num: 1

materials.

Couse ID: 903161 Description: Ancient Architecture (I)

Full Course Description: The course provide the understanding of the architecture of the ancient world (prehistoric,

Egyptian, Mesopotamian, Greek, Hellenistic, and Roman). The study considers the influences, which shaped each type of architecture, in relation to aspects of social, religious, political, as well as building materials, climate and geography, the influences of the earliest architecture to the later one according to the function, morphology, structure, and

symbolism. Concentration will be focused on the ancient architecture of Jordan.

Couse ID: 903201 Description: Geoarchology

Full Course Description: Lecture/laboratory course illustrating the use of geological concepts and methods in the

study of archaeological problems. It give the fundamentals of geologic context and archaeology and the different geophysical and geochemical methods, involved in weathering, soil and cultural deposits and site formation, sedimentary environments and depositional processes for conservation. Landscape studies and records alteration; prospection, or the non-destructive methods for locating cultural remains; provenance

(sourcing) of raw materials.

Couse ID: 903211 Description: Properties of Archaeological Materials

Full Course Description: Introducing the different kinds of archaeological materials and it's classification regarding

their raw materials. Also focuses on studying the physical and chemical properties of the archaeological materials and explains the effect of the surrounding environment on materials nature. The practical part will includes different ways in examine and studying theses

properties in the laboratory.

Couse ID: 903214 **Description:** Conservation Science and Tourism Development

Full Course Description: Cover the main positive and negative impacts of the tourism activities in the archaeological site such as it stability and continuity. It also will cover the role of the tourist guide in the

conservation process in the site. The course will extend to cover the impact of different

conservation work in the tourism and tourism development.

Couse ID: 903222 Description: Dating and Survey Techniques in Archaeology

Full Course Description: Discussion of the most common dating and surveying techniques used or found in related archaeological literature. Also discusses its history, types, site and sample suitability, the

discovery and mapping of buried archaeological features, and computer analysis of data. Practical experience of some of the techniques on the lab and field, putting to use the

information discussed in class.

Couse ID: 903261 Description: Ancient Architecture (II)

Full Course Description: Provide the students with an understanding of Early Christian, Byzantine, Architecture,

Gothic, Renaissance, Baroque and Rococo, Neo Classical and Islamic Architecture. The study considers the influences, which shaped each type of architecture, in relation to the social, religious, political aspects, as well as building materials, climate and geography and the influences of the earliest architecture to the later one. The different architectural characters and styles through examples of typical building will be discussed, in addition to

comparative analysis of principal features.

Admission and Registratuin Unit

Page Num: 2

Date: 26-04-2024

Courses Description

College: Queen Rania'S Faculty Of Tourism& Heritage

Department: Archaeological Conservation Science

Couse ID: 903301 **Description:** Geoarchaeology

Full Course Description: Lecture/laboratory course illustrating the use of geological concepts and methods in the

study of archaeological problems. It give the fundamentals of geologic context and archaeology and the different geophysical and geochemical methods, involved in weathering, soil and cultural deposits and site formation, sedimentary environments and depositional processes for conservation. Landscape studies and records alteration; prospection, or the non-destructive methods for locating cultural remains; provenance

(sourcing) of raw materials.

Couse ID: 903302 **Description:** Natural Disasters and Archaeology

Full Course Description: Introduction the theory and practice the different natural disasters such as floods,

earthquakes, fires, volcanic eruptions and human conflicts which make archaeological sites at risk. Students completing the course will gain a sound understanding of these hazards and how archaeological site respond to them and how to undertake Environmental risk

assessments (ERAs) which are to support decision-makers in risk

Couse ID: 903312 **Description:** Conservation of Museum Objects

Full Course Description: Introduction to nature of museum collection, their classifications and storage. Focus on in

the conservation principles of most common museum objects. Also consider the role of museum environmental conditions and their role in the conservation process in the museum. It will take in consideration the museum collection storages and the needed environment in these areas. The practical part will introduce the different conservation methods and techniques of the different archaeological materials that are existed in the museum

collection.

Couse ID: 903313 **Description:** Conservation of Inorganic Archaeological Materials

Full Course Description: Introduction to inorganic materials that are found in the archaeological and historical sites and in museums. This include glass, ceramic and different metal objects. Focus on the main conservation principles and procedures in conserving and restoring these materials as well as the main factors that affect these materials. Laboratory application for the theoretical

principles and techniques of restoration and conservation of the inorganic archaeological

materials.

Couse ID: 903314 **Description:** Conservation of Organic Archaeological Materials

Full Course Description: Introduction to different types of archaeological organic materials and their archaeological

classification. It also studies the different chemical and physical properties of these organic materials and the role of these properties in the decay process of such materials. The course will cover all different used methods in conservation and restoration of archaeological organic materials. Lab application of different methods of organic materials identification,

analysis and conservation.

Couse ID: 903315 **Description:** Conservation of Earthern Structures and Clayey Artifacts

Full Course Description: Deals with the earthen structures and clay artifacts. Explaining the main character of this

manufactures, the physical and chemical characteristics of the clay minerals as building materials, fired brick-Terracotta-Porcelain. Studying the deterioration causes and features to define the policy and nature of interventions and treatment and restoration materials.

Organizing field trips to different location in Jordan to study and analysis one site made with

earth structure.

Admission and Registratuin Unit

Page Num: 3

Courses Description

College: Queen Rania'S Faculty Of Tourism& Heritage

Department: Archaeological Conservation Science

Couse ID: 903331 Description: Archaeometry

Full Course Description: Introduction Archaeometry, its definition, and its history. Also the course explains the

different physical and chemical analytical methods and it's suitability to the archaeological materials. Also discuss the implications of analytical results, how they relate to archaeological context and how they may answer some specific historical questions.

Practical applications of the theoretical concepts of Archaeometry, examination and analysis

Date: 26-04-2024

as well as data acquisition, processing and interpretation.

Couse ID: 903332 Description: Archaeometry

Full Course Description: Introduction Archaeometry, its definition, and its history. Also the course explains the

different physical and chemical analytical methods and it's suitability to the archaeological materials. Also discuss the implications of analytical results, how they relate to archaeological context and how they may answer some specific historical questions. Practical applications of the theoretical concepts of Archaeometry, examination and analysis

as well as data acquisition, processing and interpretation.

Couse ID: 903333 Description: Analysis of Archaeological Inorganic Materials

Full Course Description: Introduction to different kinds and characterization of inorganic archaeological materials

using different analytical techniques. Also study the surrounding parameters which influence materials stabilization and data processing and interpretation.

It will include the application of the different analytical methods on archaeological materials

and data processing and interpretation in the Lab.

Couse ID: 903341 Description: Graphics and Its Applications in Heritage

Full Course Description: Introduces the basic concepts and basic techniques of computer graphics (Visual

Communication). Explains the importance of such various techniques for documentation of the historical and archaeological buildings and their structural features in order to studying, analyzing and protecting them either by restoration or by conservation. In this framework, several software will be used such as Auto CAD (2D- 3D), PhotoModeler and Photoshop. Application of the previous software in the Lab., in addition to the free hand drawing and the

engineering drawings in order to simple construction and viewing problems.

Couse ID: 903351 Description: Informatics and Archaeology

Full Course Description: Includes the basic concepts necessary for modeling, designing and implementing database

systems in documenting, studying and analyzing the collected data. Curriculum content will focus on various topics such Internet Browsing, electronic publishing, digital archiving, the integration of Microsoft Access with the Web, and web design (HTML). In the laboratory,

students will practically apply the theoretical part.

Couse ID: 903352 Description: Remote Sensing in Archaeology

Full Course Description: Cover the basics and principles of remote sensing and the general characteristics of

electromagnetic spectrum. It introduces the different types of Satellites and other instruments used in remote sensing which are applied in the discovery and conservation of cultural heritage site. The lab work covers the various techniques of image processing in remote sensing such as image classification as demonstrated by ERDAS IMAGINE 9.1 software to analyze and interpret satellite imagery for archaeology and conservation study.

Couse ID: 903371 Description: Introduction to Ancient Technologies

Full Course Description: Deals with the inventions, the techniques and the organic and inorganic materials used in manufacturing the heritage product of the ancient civilizations either those used for construction of buildings or other artifacts. The objective is to find out the sources of the

construction of buildings of other artifacts. The objective is to find out the sources of

materials and to consider how and why the ancient craftsmen used them.

Admission and Registratuin Unit

Page Num: 4

Date: 26-04-2024

Courses Description

College: Queen Rania'S Faculty Of Tourism& Heritage

Department: Archaeological Conservation Science

Couse ID: 903411 Description: Conservation Science (2)

Full Course Description: Introduction to inorganic materials that are found in the archaeological and historical sites

and in museums. This include glass, ceramic and different metal objects. Focus on the main conservation principles and procedures in conserving and restoring these materials as well as the main factors that affect these materials. Laboratory application for the theoretical principles and techniques of restoration and conservation of the inorganic archaeological

materials

Couse ID: 903412 Description: Conservation Science (3)

Full Course Description: Introduction the concept of stone buildings and its importance. It studies the types of

building materials used in historic buildings and monuments and their role in the construction and conservation of archaeological sites and monuments. Also study the different agents of deterioration in the inorganic building materials. Also introduce to the main principles of conservation of stone building materials, including cleaning and consolidation methods. A series of practical exercises in the laboratory and in the field to study the properties of the

building materials and the basic conservation methods used in stone buildings.

Full Course Description: Introduce the student to preventive conservation work and its importance in the

conservation process. It also examines ways of preventing deterioration of archaeological materials by control of their environment. It will include the application of preventive conservation measures before, during and after archaeological work such as the construction of shelters. It studies the role of site management as one type of preventive

conservation measures in these sites.

Couse ID: 903421 Description: Restoration of Archaeological Artifacts

Full Course Description: Introduction to nature of museum collection, their classifications and storage. Focus on in

the conservation principles of most common museum objects. Also consider the role of museum environmental conditions and their role in the conservation process in the museum. It will take in consideration the museum collection storages and the needed environment in these areas. The practical part will introduce the different conservation methods and techniques of the different archaeological materials that are existed in the museum

collection.

Couse ID: 903432 Description: Study of Historical Buildings Stability

Full Course Description: Deals with studying the physical and mechanical properties of the historical building

materials through exposing them to compressive and tensile forces. It will also discuss the mechanical properties of the soil, its types, and their bearing capacity through the study of the cracks and the failure of the external and internal walls. The technical solutions to the problems mentioned will be discussed. In order to choose the best solutions and restoration treatments the practical part will include lab tests to observe how building materials

withstand static and dynamic forces.

Couse ID: 903442 Description: Applications of Visual Communication in Heritage

Full Course Description: Introduces the basic concepts and basic techniques of computer graphics (Visual

Communication). Explains the importance of such various techniques for documentation of the historical and archaeological buildings and their structural features in order to studying, analyzing and protecting them either by restoration or by conservation. In this framework, several software will be used such as Auto CAD (2D- 3D), PhotoModeler and Photoshop. Application of the previous software in the Lab., in addition to the free hand drawing and the

engineering drawings in order to simple construction and viewing problems.

Admission and Registratuin Unit

Courses Description

Page Num: 5

Date: 26-04-2024

College: Queen Rania'S Faculty Of Tourism& Heritage

Department: Archaeological Conservation Science

Couse ID: 903443 Description: Digital Archaeology

Full Course Description: Defines the digital technologies and the software used in archaeology for 3D documentation,

3D Modeling and visualization. It will discuss digital survey and mapping instruments, digital video and digital photogrammetry (aerial or terrestrial), and laser scanning technique. Various applications of 3D documentation methods in the field. It describes the computer

programs and features and properties of each program.

Couse ID: 903444 Description: Evaluation and Rehabilitation of Heritage Sites

Full Course Description: Deals with evaluating the existing physical condition of buildings with understanding its

aesthetic and functional values and its relation to the surrounding environment. This done to define the nature of intervention treatments to be used and draw the conservation policy that needs to be followed to save these buildings. This is done in order to connect buildings through giving a unified identity to historical sits. Field visits will be organized to give the students the chance to apply such evaluation and to learn more about how to deal with

historical buildings on site.

Couse ID: 903451 Description: Archaeological Information Systems

Full Course Description: Understanding of the different components, methods and concepts of the Geographic

Information System (GIS) and its application in problems related to archaeological site, their preservation, and management and how GIS can offer additional digital tools for improved CRM. Students will be introduced to comprehensive analysis schemes GIS can provide for archaeology and CRM including but not limited to WebGIS, Spatial analyst and 3D

modeling.

Couse ID: 903452 Description: Documentation of Archaeological Sites

Full Course Description: Introduces the development and evolution of the different architectural and archaeological

documentation methods and techniques, the process of preparing the different architectural and engineering documentation drawings. It also introduces the photography,

photogrammetry and the other modern techniques in Documentation. Application of different documentation methods and techniques. The students will learn how to prepare the documentation work plan, within the general framework of conservation and cultural

resources management.

Couse ID: 903491 Description: Seminar

Full Course Description: Developing the students' abilities to use the right references from the different libraries and

other sources. A special focus will be given to the right usage of specialized periodicals and publications. Work is expected to be carried out by the student with the instructor supervising the discussion and directing readings A major paper is required from every student. In addition, presentations of the paper and any other work are required from every

student.

Couse ID: 903492 Description: Fieldwork Training

Full Course Description: jjj

Couse ID: 903493 Description: Special Topics

Full Course Description: Formulate research project demonstrating principles and procedures used to recognize,

state, solve, and write problems of archaeological importance. Requires formal seminar

presentation of completed project and paper.

Couse ID: 2903201 Description: Archaeology and Applied Sciences

Full Course Description: Introduces the history of interaction between science and archaeology and some of the

pressing issues archaeology recognizes and deals with as an archaeological science. Stresses the natural science and engineering methods archaeologists use in tackling such problems and how those methods have become part of the archaeological tool kit. And how science aids to dating and interpretation of past environments; analysis of archaeological food residues; scientific examination of raw materials and artifacts; mortality, disease, and

behavior as reconstructed from human remains.

Admission and Registratuin Unit

Page Num: 6

Date: 26-04-2024

Courses Description

College: Queen Rania'S Faculty Of Tourism& Heritage

Department: Archaeological Conservation Science

Couse ID: 2903311 Description: Conservation and Restoration of Stone Buildings

Full Course Description: Introduction the concept of stone buildings and its importance. It studies the types of

building materials used in historic buildings and monuments and their role in the construction and conservation of archaeological sites and monuments. Also study the different agents of deterioration in the inorganic building materials. Also introduce to the main principles of conservation of stone building materials, including cleaning and consolidation methods. A series of practical exercises in the laboratory and in the field to study the properties of the

building materials and the basic conservation methods used in stone buildings.

Couse ID: 2903411 Description: Ancient Environment and Site Formation Processes

Full Course Description: Provides the necessary practical, analytical and interpretative methods and theories of the

study of the uses of landscape by humans and their relationship with the environment. Considering in detail geological, biological and anthropogenic depositional and post-depositional processes that result in formation of archaeological sites and the processes of preserving and modifying spatial patterns; quantitative and qualitative spatial techniques

using archaeological data..

Couse ID: 2903442 Description: Documentation of Archaeological Remains

Full Course Description: Introduces the development and evolution of the different architectural and archaeological

documentation methods and techniques, the process of preparing the different architectural and engineering documentation drawings. It also introduces the photography,

photogrammetry and the other modern techniques in Documentation. Application of different documentation methods and techniques. The students will learn how to prepare the documentation work plan, within the general framework of conservation and cultural

resources management.

Couse ID: 110903111 Description: Principles of Conservation Science

Full Course Description: ii

Couse ID: 110903161 Description: Ancient Architecture (I)

Full Course Description: Ik

Couse ID: 110903201 Description: Archaeology and Applied Sciences

Full Course Description: ||

Couse ID: 110903214 Description: Conservation Science and Tourism Development

Full Course Description: kk

Couse ID: 110903222 Description: Dating and Survey Techniques in Archaeology

Full Course Description: ||

Couse ID: 110903261 Description: Ancient Architecture (II)

Full Course Description: kk

Couse ID: 110903301 Description: Geoarchaeology

Full Course Description: "

Couse ID: 110903311 Description: Conservation and Restoration of Stone Buildings

Full Course Description: kk

Couse ID: 110903312 Description: Conservation of Museum Objects

Full Course Description: "

Couse ID: 110903313 Description: Conservation of Inorganic Archaeological Materials

Full Course Description: ||

Admission and Registratuin Unit

Courses Description

Page Num: 7

Date: 26-04-2024

College: Queen Rania'S Faculty Of Tourism& Heritage

Department: Archaeological Conservation Science

Couse ID: 110903314 Description: Conservation of Organic Archaeological Materials

Full Course Description: jj

Couse ID: 110903315 Description: Conservation of Earthern Structures and Clayey Artifacts

Full Course Description: kk

Couse ID: 110903316 Description: Conservation and Restoration of Archaeological Objects

Full Course Description: ∥

Couse ID: 110903317 Description: Conservation of Vernacular Building

Full Course Description: ||

Couse ID: 110903332 Description: Archaeometry

Full Course Description: □

Introduction Archaeometry, its definition, and its history. Also the course explains the different physical and chemical analytical methods and it's suitability to the archaeological

materials. Also discuss the implications of analytical results, how they relate to

archaeological context and how they may answer some specific historical questions.

Practical applications of the theoretical concepts of Archaeometry, examination and analysis

as well as data acquisition, processing and interpretation.

Couse ID: 110903333 Description: Analysis of Archaeological Inorganic Materials

Full Course Description: kk

Couse ID: 110903341 Description: Graphics and Its Applications in Heritage

Full Course Description: **∥**

Couse ID: 110903351 Description: Informatics and Archaeology

Full Course Description: "

Couse ID: 110903352 Description: Remote Sensing in Archaeology

Full Course Description: ;;

Couse ID: 110903371 Description: Introduction to Ancient Technologies

Full Course Description:

Couse ID: 110903411 Description: Ancient Environment and Site Formation Processes

Full Course Description: **∥**

Couse ID: 110903414 Description: Preventive Conservation for Archaeological Site and Artifacts

Full Course Description: kk

Couse ID: 110903432 Description: Study of Historical Buildings Stability

Full Course Description: "

Couse ID: 110903443 Description: Digital Archaeology

Full Course Description: kk

Couse ID: 110903444 Description: Evaluation and Rehabilitation of Heritage Sites

Full Course Description: hh

Couse ID: 110903451 Description: Archaeological Information Systems

Full Course Description: mm

Admission and Registratuin Unit

Courses Description

Page Num: 8

Date: 26-04-2024

Page Num :

College: Queen Rania'S Faculty Of Tourism& Heritage

Department: Archaeological Conservation Science

Couse ID: 110903491 Description: Seminar

Full Course Description: III

Couse ID: 110903492 Description: Work Training

Full Course Description: hh

Couse ID: 140903121 Description: Applied Sciences in Archaeology (1)

Full Course Description: -

Couse ID: 140903201 Description: Applied Sciences in Archaeology (2)

Full Course Description: J

Couse ID: 140903222 Description: General Chemistry for Archaeology

Full Course Description: •

Couse ID: 140903312 Description: Conservation of Archaeological Objects

Full Course Description: 🖆

Couse ID: 140903371 Description: Introduction to Ancient Technology

Full Course Description: 1

Couse ID: 140903492 Description: FieldworkTraning

Full Course Description: ∪

Couse ID: 150903122 Description: Principles of Archaeology

چ :Full Course Description