| Form: Course Syllabus | Form Number | EXC-01-02-02A |
|---|---|---|
| | Issue Number and Date | 2/3/24/2022/2963 05/12/2022 |
| | Number and Date of Revision or Modification | 2023/10/15 |
| | Deans Council Approval Decision Number | 265/2024/24/3/2 |
| | The Date of the Deans Council Approval Decision | 2024/1/23 |
| | Number of Pages | 06 |

| | | |
|---|---|---|
| 1. | Course Title | Preventive Conservation of Cultural and Archaeological Property |
| 2. | Course Number | 2632331 |
| 3. | Credit Hours (Theory, Practical) | 3 |
| | Contact Hours (Theory, Practical) | 3 |
| 4. | Prerequisites/ Corequisites | |
| 5. | Program Title | BA in Cultural Resources Management and Conservation |
| 6. | Program Code | 02 |
| 7. | School/ Center | School of Archaeology and Tourism |
| 8. | Department | Cultural Resources Management and Conservation |
| 9. | Course Level | 2 |
| 10. | Year of Study and Semester (s) | 1st Semester 2024/2025 |
| 11. | Program Degree | BA |
| 12. | Other Department(s) Involved in Teaching the Course | N/A |
| 13. | Learning Language | Arabic |
| 14. | Learning Types | ☒Face to face learning ☐Blended ☐Fully online |
| 15. | Online Platforms(s) | ☒Moodle ☒Microsoft Teams |
| 16 | Issuing Date | |
| 17. | Revision Date | 01/12/2025 |

**18. Course Coordinator:**

Name: Prof. Dr.Mahmoud Arinat
Contact hours: S,T,Th 11:30-12:30
Office number: 111
Phone number: 25038
Email: m.arinat@ju.edu.jo

**19. Other Instructors:**

Name: Dr.Mahmoud Arinat
Office number: 25038
Phone number:
Email: m.arinat@ju.edu.jo
Contact hours: S,T,Th 11:30-12:30
Name:
Office number:
Phone number:
Email:
Contact hours:

## 20. Course Description:

As stated in the approved study plan.

The course comprises teaching the optimum methods of preventative conservation in show cases and stores in museums. In addition, it includes teaching students the use of various apparatus to control the level of light and ultra-violet radiation, along with tools to measure the relative humidity in order to find the right levels of humidity for each cultural material, and how to avoid pollution in the museum. Field training is carried out in museums

## 21. Program Intended Learning Outcomes: (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program)

| PILO's | *National Qualifications Framework Descriptors* | | |
|---|---|---|---|
| | Competency (C) | Skills (B) | Knowledge (A) |
| Applies the principles of critical and objective thinking in addressing heritage protection issues. | ☐ | ☐ | ☒ |
| Identifies and deeply understands problems and challenges, analyzing the complex aspects of heritage and influencing factors, providing comprehensive and detailed assessments. | ☐ | ☐ | ☒ |
| Develops innovation and entrepreneurship skills in the field of heritage resource management, exploring new opportunities for funding and development. | ☐ | ☐ | ☒ |
| Engages and discusses effectively with local communities and groups interested in heritage, understanding the impact of heritage resources on cultural identity and community development. | ☐ | ☐ | ☒ |
| Identify, understands, and critically evaluates academic sources, articles, and research related to heritage and its management to extract main ideas and fundamental concepts. | ☐ | ☒ | ☐ |

| | | | |
|---|---|---|---|
| Listens attentively and focused to lectures and discussions, engaging with the presented content thoughtfully and comprehensively. | ☐ | ☒ | ☐ |
| Selects and critically evaluates information and ideas, independently analyzing data and evidence. | ☐ | ☒ | ☐ |
| Develops and identifies strategies for problem-solving, applying acquired concepts and skills in practical contexts. | ☐ | ☒ | ☐ |
| Utilizes various digital technologies and tools in managing, documenting, and conserving heritage resources, such as using electronic information management systems and imaging, documentation, and analysis techniques. | ☐ | ☒ | ☐ |
| Innovates new and creative solutions to the challenges of heritage resource management and conservation. | ☒ | ☐ | ☐ |
| Collects and comprehensively analyzes data and information, extracting main ideas and fundamental concepts. | ☒ | ☐ | ☐ |
| Evaluates results, monitors performance, and analyzes data and information to determine the achievement of goals and identify areas needing improvement and development. | ☒ | ☐ | ☐ |
| Implements effective plans and strategies for managing heritage resources, organizing relevant activities and events. | ☒ | ☐ | ☐ |

* Choose only one descriptor for each learning outcome of the program, whether knowledge, skill, or competency.

**22. Course Intended Learning Outcomes:** (Upon completion of the course, the student will be able to achieve the following intended learning outcomes)

| Course ILOs # | The learning levels to be achieved | | | | | | Competencies |
|---|---|---|---|---|---|---|---|
| | Remember | Understand | Apply | Analyse | Evaluate | Create | |
| K1. Know the basic principles of preventive conservation. | K1 | K1 | | | | | **Knowledge** |
| K2. Know the steps of preventive conservation in museums. | | K2 | | | | | **Knowledge** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S1. Identify the archaeological materials deterioration. | | S1 | | | | | **Skills** |
| S2. Identify the types of archaeological materials in museums. | | S2 | | | | | **Skills** |
| C1. Ability to work within an team work to prevent the archaeological materials from deterioration. | | | C1 | C1 | | | **Competency** |
| C2. Determine all the preventive conservation processes. | | | C2 | C2 | C2 | | **Competency** |

**23. The matrix linking the intended learning outcomes of the course -CLO's with the intended learning outcomes of the program -PILOs:**

| PILO's * / CLO's | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | Descriptors** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | A | B | C |
| K1. Know the basic principles of preventive conservation. | * | | | | | | | | | | | | | * | | |
| K2. Know the steps of preventive | * | | | | | | | | | | | | | * | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| conservation in museums. | | | | | | | | | | | | | | | |
| S1. Identify the archaeological materials deterioration. | | | | | | | | * | | | | | | * | |
| S2. Identify the types of archaeological materials in museums. | | | | | | | | | | | * | | | * | |
| C1. Ability to work within an team work to prevent the archaeological materials from deterioration. | | | | | | | | | | | * | * | | | * |
| C2. Determine all the preventive conservation processes. | | | | | | | | | | * | * | * | | | * |

***Linking each course learning outcome (CLO) to only one program outcome (PLO) as specified in the course matrix.**

****Descriptors are determined according to the program learning outcome (PLO) that was chosen and according to what was specified in the program learning outcomes matrix in clause (21).**

## 24. Topic Outline and Schedule:

| Week | Lecture | Topic | ILO/s Linked to the Topic | Learning Types (Face to Face/ Blended/ Fully Online) | Platform Used | Synchronous / Asynchronous Lecturing | Evaluation Methods | Learning Resources |
|---|---|---|---|---|---|---|---|---|
| 1 | 1.1 | Overview and course identification of course | | Face to Face | | Synchronous | Assignments, participation, presentations and exams. | Text-based resources guest speakers, Museumes experts |
| | 1.2 | Preventive conservation definition and types. . | K1 | | | | | |
| | 1.3 | Preventive conservation definition and types. | K1 | | | | | |
| 2 | 2.1 | Importance and objectives of preventive conservation. | K1 | | | | | |
| | 2.2 | Importance and objectives of preventive conservation. | K1 | | | | | |
| | 2.3 | Importance and objectives of preventive conservation. | K2 | | | | | |
| 3 | 3.1 | Preventive conservation principles | K2 | | | | | |
| | 3.2 | Preventive conservation principles | K2 | | | | | |
| | 3.3 | Preventive conservation principles | K2 | | | | | |
| 4 | 4.1 | Archaeological materials (types and properties) . | K1+K2 | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 4.2 | Archaeological materials (types and properties) . | K1+K2 | | | | | |
| | 4.3 | Archaeological materials (types and properties) . | K1+K2 | | | | | |
| 5 | 5.1 | Preventive conservation in museum | S1 | | | | | |
| | 5.2 | Preventive conservation in museum | S1 | | | | | |
| | 5.3 | Preventive conservation in museum | S1 | | | | | |
| 6 | 6.1 | Archaeological materials deterioration in museum | S1 | | | | | |
| | 6.2 | Archaeological materials deterioration in museum | S1 | | | | | |
| | 6.3 | Archaeological materials deterioration in museum | S1 | | | | | |
| 7 | 7.1 | Temperature | S1+S2 | | | | | |
| | 7.2 | Temperature | S1+S2 | | | | | |
| | 7.3 | Temperature | S1+S2 | | | | | |
| 8 | 8.1 | Relative Humidity | S1+S2 | | | | | |
| | 8.2 | Relative Humidity | S1+S2 | | | | | |
| | 8.3 | Relative Humidity | S1+S2 | | | | | |
| 9 | 9.1 | Light | S1+S2 | | | | | |
| | 9.2 | Light | S1+S2 | | | | | |
| | 9.3 | Light. | S1+S2 | | | | | |
| 10 | 10.1 | Pollution | S1+S2 | | | | | |
| | 10.2 | Pollution | S1+S2 | | | | | |
| | 10.3 | Pollution | S1+S2 | | | | | |
| 11 | 11.1 | Biological activity | S1+S2 | | | | | |
| | 11.2 | Biological activity | S1+S2 | | | | | |
| | 11.3 | Biological activity | S1+S2 | | | | | |
| 12 | 12.1 | Monitoring and Controlling deterioration forms in museum | S2+C1 | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 12.2 | Monitoring and Controlling deterioration forms in museum | S2+C1 | | | | | |
| | 12.3 | Monitoring and Controlling deterioration forms in museum | S2+C1 | | | | | |
| 13 | 13.1 | Modern Technologies used in preservation of archaeological materials in museum. | S2+C1 | | | | | |
| | 13.2 | Modern Technologies used in preservation of archaeological materials in museum. | S2+C1 | | | | | |
| | 13.3 | Modern Technologies used in preservation of archaeological materials in museum. | S2+C1 | | | | | |
| 14 | 14.1 | Archaeological materials storage | C1+C2 | | | | | |
| | 14.2 | Archaeological materials storage | C1+C2 | | | | | |
| | 14.3 | Archaeological materials storage | C1+C2 | | | | | |
| 15 | 15.1 | Preventive Conservation of Pottery | C2 | | | | | |
| | 15.2 | Preventive Conservation of Stones | C2 | | | | | |
| | 15.3 | Preventive Conservation of Metals | C2 | | | | | |

## 25. Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

| Evaluation Activity | *Mark wt. | CILO's | | | | | |
|---|---|---|---|---|---|---|---|
| | | K1 | K2 | S1 | S2 | C1 | C2 |
| First Exam | 30 | * | * | | | | |
| Second Exam –If any | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Final Exam | 50 | * | * | * | * | * | * |
| **Class work | | | | | | | |
| Projects/reports | 20 | * | * | * | * | * | * |
| Research working papers | | | | | | | |
| Field visits | | | | | | | |
| Practical and clinical | | | | | | | |
| Performance Completion file | | | | | | | |
| Presentation/ exhibition | | | | | | | |
| Any other approved works | | | | | | | |
| Total 100% | 100 | | | | | | |

*** According to the instructions for granting a Bachelor's degree.**

****According to the principles of organizing semester work, tests, examinations, and grades for the bachelor's degree.**

## Mid-term exam specifications table*

| No. of questions/ cognitive level | | | | | | No. of questions per CLO | Total exam mark | Total no. of questions | CILO/ Weight | CILO no. |
|---|---|---|---|---|---|---|---|---|---|---|
| Create **%10** | Evaluate **%10** | analyse **%10** | Apply %20 | Understand **%20** | Remember %30 | | | | | |
| | | | | | | | | | | **K1** |
| | | | | | | | | | | **K2** |
| | | | | | | | | | | **S1** |
| | | | | | | | | | | **S2** |
| | | | | | | | | | | **C1** |
| | | | | | | | | | | **C2** |

## Final exam specifications table

| No. of questions/ cognitive level | | | | | | No. of questions per CLO | Total exam mark | Total no. of questions | CILO Weight | CILO no. |
|---|---|---|---|---|---|---|---|---|---|---|
| Create **%10** | Evaluate **%10** | analyse **%10** | Apply %20 | Understand **%20** | Remember %30 | | | | | |
| | | | | | | | | | | **K1** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | **K2** |
| | | | | | | | | | | **S1** |
| | | | | | | | | | | **S2** |
| | | | | | | | | | | **C1** |
| | | | | | | | | | | **C2** |

**26. Course Requirements:**

(e.g.: students should have a computer, internet connection, webcam, account on a specific software/platform…etc.):

Internet, MS teams

**27. Course Policies:**

A- Attendance policies:
B- Absences from exams and submitting assignments on time:
C- Health and safety procedures:
D- Honesty policy regarding cheating, plagiarism, misbehavior:
E- Grading policy:
F- Available university services that support achievement in the course:
All of the mentioned policies and requirements will be followed in all potential cases according to the university regulations and procedure

**28. References:**

A- Required book(s), assigned reading and audio-visuals:

Cronyn, J.M.1990. The Elements of Archaeological Conservation, London

B- Recommended books, materials, and media:

Wiley, j and Sons. Archaeological Chemistry, New York.

Alcantara.R. 2002. Standards in Preventive Conservation: Meaning and Applications. ICCROM. Rome.

**29. Additional information:**

| | | |
|---|---|---|
| Name of the Instructor or the Course Coordinator: Prof. Mahmoud Arinat | Signature: ……..…… | Date: 22/10/2025 |
| Name of the Head of Quality Assurance Committee/ Department ……. | Signature: ……..…… | Date: ……..…… |
| Name of the Head of Department ……. | Signature: ……..…… | Date: ……..…… |
| Name of the Head of Quality Assurance Committee/ School or Center ……. | Signature: ……..…… | Date: ……..…… |
| Name of the Dean or the Director ……. | Signature: ……..…… | Date: ……..…… |