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| **1** | **Course title** | **Deterioration of Archaeological Materials** |
| **2** | **Course number** | 2602313 |
| **3** | **Credit hours (theory, practical)** | 3 (theoretical) |
| **Contact hours (theory, practical)** | 3 (theoretical) |
| **4** | **Prerequisites/corequisites** | Not applicable |
| **5** | **Program title** | Bachelor’s degree in Cultural Resources management and Conservation |
| **6** | **Program code** | 02 |
| **7** | **Awarding institution**  | The University of Jordan |
| **8** | **School** | Archaeology and Tourism |
| **9** | **Department** | Cultural Resources management and Conservation |
| **10** | **Level of course**  | 3d year |
| **11** | **Year of study and semester (s)** | Every year/second semester |
| **12** | **Final Qualification** | Bachelor’s degree |
| **13** | **Other department (s) involved in teaching the course** | Not applicable |
| **14** | **Language of Instruction** | Arabic, with systematic use of related English terminology |
| **15** | **Date of production/revision** | 2015 |

**16. Course Coordinator:**

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| Course Coordinator: **Dr. Fuad Hourani**Office number: **/**Office hours: Sunday Tuesday & Thursday: **13-14**; Monday & Wednesday: **12:30-14**Phone number: **25046**Email address: **f.hourani@ju.edu.jo** |

**17. Other instructors:**

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| Not applicable |

**18. Course Description:**

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| This course defines and describes the physical and chemical characteristics of organic and non-organic materials constituting, generally, archaeological objects. In addition, the course explains the internal and external factors of deterioration affecting different archaeological artifacts, and how the deterioration processes took place. |

**19. Course aims and outcomes:**

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| 1. Aims:
2. To enable students understanding the nature of archaeological materials and their environmental contexts.
3. To enable students assessing the different factors and causes of deterioration.
4. To develop the capacities of students in analysing and interpreting the symptoms of deterioration.
5. To familiarize the students with the methods and techniques used in studying material deterioration.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to  |
| 1. Express the right terminology in relation to the types, causes and mechanism of deterioration.
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| 1. Demonstrate a basic understanding of the chemical and physical properties of the different types of archaeological materials
 |
| 1. Determine the different environmental factors and explain their processes.
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| 1. Describe the different types of deterioration symptoms.
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| 1. Build the causal relation between factors and effects.
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**20. Topic Outline and Schedule:**

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| Topic | Week | Instructor | Achieved ILOs | Evaluation Methods | Reference |
| General framework: Concepts, definitions and basic principles. | 1 | Dr.Fuad Hourani | Correspond to the above mentioned ILOs 1 | Written exams & individual or group presentations | See section 25 |
| Archaeological materials: Types, resources and elemental compositions. | 2-3 | Correspond to ILOs 2&3 |
| Preparation / fabrication of archaeological materials and the transformation of the primary elements. | 4-5 |
| Archaeological Materials in their environmental contexts. | 6-8 |
| Factors, types and agents of deterioration. | 9-11 | 1. Correspond to ILOs 3
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| Processes of deterioration per each type of material. | 12-13 | Correspond to ILOs 4&5 |
| Techniques used in the analysis and diagnosis of the deterioration symptoms and causes. | 14 |

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**21. Teaching Methods and Assignments:**

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| Development of ILOs is promoted through the following teaching and learning methods:1. Lectures
2. Practical examples on PowerPoint presentations
3. Group discussions
4. Conservation lab.
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**22. Evaluation Methods and Course Requirements:**

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| Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:* Discussions in the class and the lab.
* Written exams
* Presentations given by students
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**23. Course Policies:**

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| A- Attendance policies: As per University rules.B- Absences from exams and handing in assignments on time: As per University rules.C- Health and safety procedures: As per University rules.D- Honesty policy regarding cheating, plagiarism, misbehaviour: As per University rules.* E- Grading policy: Midterm Exam: 30%
* Individual/Group presentations: 20%
* Participation in class discussions: 10%
* Final exam: 40%

F- Available university services that support achievement in the course: * UJ Library
* Faculty labs.
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**24. Required equipment: (** Facilities, Tools, Labs, Training….)

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| Conservation lab. |

**25. References:**

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| Required book (s), assigned reading and audio-visuals:Recommended books, materials, and media:* 1. Pollard M., Batt C., Stern B., Young, S. M. M. 2007: Analytical Chemistry in Archaeology. Cambridge University Press. New York..
	2. Robert L. Feller. 1994: Accelerated aging : photochemical and thermal aspects. Getty Conservation Institute. Cambridge UniversityPress.
	3. ICOMOS-ISCS : Illustrated glossary on stone deterioration patterns. Monuments and sites XV
	4. Gilberto Artioli. 2010 : Scientific methods and Cultural Heritage. Oxford University Press
	5. Other references (in French and English) available upon request.
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**26. Additional information:**

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Name of Course Coordinator: Dr. Fuad Hourani ---------Signature: ------------------ Date: 18/2/2019

Head of curriculum committee/Department: ----------------------------- Signature: ---------------------------

Head of Department: ------------------------------------------------------------ Signature: -----------------------

Head of curriculum committee/Faculty: ----------------------------------------- Signature: --------------------

Dean: --------------------------------------------------------- -Signature: -------------------------------------------