



**The University of Jordan**  
**Accreditation & Quality Assurance Center**

**COURSE**

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<b>1</b>	Course title	<b>Conservation and restoration of glass and pottery</b>
<b>2</b>	Course number	2632442
<b>3</b>	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
<b>4</b>	Prerequisites/corequisites	-
<b>5</b>	Program title	B.A degree in Cultural Resources Management and Conservation
<b>6</b>	Program code	20
<b>7</b>	Awarding institution	
<b>8</b>	Faculty	Faculty of Archaeology and Tourism
<b>9</b>	Department	Cultural Resources Management and Conservation
<b>10</b>	Level of course	4
<b>11</b>	Year of study and semester (s)	2016 / 1 <sup>st</sup>
<b>12</b>	Final Qualification	B. A
<b>13</b>	Other department (s) involved in teaching the course	
<b>14</b>	Language of Instruction	Arabic / English
<b>15</b>	Date of production/revision	4/ 09/ 2016

**16. Course Coordinator:**

Office numbers, office hours, phone numbers, and email addresses should be listed.

Mustafa Al-Naddaf  
[naddaf@yu.edu.jo](mailto:naddaf@yu.edu.jo)  
 0790554398

**17. Other instructors:**

*Office numbers, office hours, phone numbers, and email addresses should be listed.*

Mustafa Al-Naddaf  
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**18. Course Description:**

*As stated in the approved study plan.*

This course focuses on the deterioration of glass and pottery. It also focuses on the recent methods and materials used for the restoration and conservation of the both materials. Critical issues related to the treatment of corrodes glass and glazes surfaces are considered. Practical training is carries out in the laboratory.

## 1. 19. Course aims and outcomes:

2.

A- Aims:

**B- Intended Learning Outcomes (ILOs):**

Upon completion of the course, the student must demonstrate the knowledge and the ability to:

- Show how to prepare the archaeological report of glass and pottery objects conservation.
- Choose the suitable method and material to treat glass and pottery
- Know the advantages and limitations of various techniques

**20. Topic Outline and Schedule:**

3.

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
General introduction The importance and purpose of course Technical terms	1	M. Al-Naddaf	- Introducing the students to the importance of glass and pottery in the field of archaeology and conservation. - enabling the students to understand	-	عبد الله، إبراهيم محمد 2012. ترميم تحف الفخار والزجاج والقاشاني. دار الوفاء لندنيا الطباعة والنشر والتوزيع، الإسكندرية، مصر.

			technical terms used in glass and pottery conservation.		
Classification of glass. History of glassmaking Glass structure.	2	M. Al-Naddaf	- Enabling the students to differentiate among the different types of glass and how it was evolved.	Lab discussion. Presenting hand specimen.	عبد الله، إبراهيم محمد 2012. ترميم تحف الفخار والزجاج والقاشاني. دار الوفاء لندنيا الطباعة والنشر والتوزيع، الإسكندرية، مصر.
Composition of glass Raw materials of glass Colorant of glass	3	M. Al-Naddaf	Enabling the students to understand the relation between glass and its durability.	Lab discussion.	عبد الله، إبراهيم محمد 2012. ترميم تحف الفخار والزجاج والقاشاني. دار الوفاء لندنيا الطباعة والنشر والتوزيع، الإسكندرية، مصر.
Deterioration of glass Examination of glass	4	M. Al-Naddaf	Enabling the students to understand the factors causing the deterioration of glass and the methods for its analyses.	Lab discussion.	Goffer, Z. 2007. Archaeological chemistry. London.

Conservation of glass	5	M. Al-Naddaf	Enabling the students to understand how glass should be treated.	Lab discussion.	Goffer, Z. 2007. Archaeological chemistry. London.
Conservation of glass	6	M. Al-Naddaf	Enabling the students to understand how glass should be treated.	Lab discussion.	Goffer, Z. 2007. Archaeological chemistry. London.
Ceramics The nature of ceramics The raw materials of ceramics	7	M. Al-Naddaf	Enabling the students to understand the relation between ceramic and its durability.	-	عبد الله، إبراهيم محمد 2012. ترميم تحف الفخار والزجاج والقاشاني. دار الوفاء لندنيا الطباعة والنشر والتوزيع، الإسكندرية، مصر.
Deterioration of ceramics	8	M. Al-Naddaf	Enabling the students to understand the factors causing the deterioration of ceramic and the methods for its analyses.	Lab discussion.	عبد الله، إبراهيم محمد 2012. ترميم تحف الفخار والزجاج والقاشاني. دار الوفاء لندنيا الطباعة والنشر والتوزيع، الإسكندرية، مصر.

Stabilization of ceramics Cleaning of ceramics	9	M. Al-Naddaf	Enabling the students to understand how ceramic should be treated.	Lab discussion. Lab discussion.	عبد الله، إبراهيم محمد 2012. ترميم تحف الفخار والزجاج والقاشاني. دار الوفاء لندنيا الطباعة والنشر والتوزيع، الإسكندرية، مصر.
Reconstruction of ceramics Joining of ceramics	10	M. Al-Naddaf	Enabling the students to understand how ceramic should be treated.	Lab discussion.	Goffer, Z. 2007. Archaeological chemistry. London
Gap filling	11	M. Al-Naddaf	Enabling the students to understand how ceramic should be treated.	Lab discussion.	Goffer, Z. 2007. Archaeological chemistry. London
Storage and display	12	M. Al-Naddaf	Enabling the students to understand how ceramic should be treated.	Lab discussion.	Goffer, Z. 2007. Archaeological chemistry. London
Materials for conservation of glass and ceramics	13	M. Al-Naddaf	Enabling the students to choose suitable conservation materials for glass.	Lab discussion.	Goffer, Z. 2007. Archaeological chemistry. London
Materials for conservation of glass and ceramics	14	M. Al-Naddaf	Enabling the students to choose suitable	Lab discussion.	Goffer, Z. 2007. Archaeological chemistry.

			conservation materials for ceramic.		London
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## 21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:  
All the lectures will be presented using powerpoint presentation.  
Some practical sessions will be held at the lab.

## 22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:  
The evaluation system based on 3 exams and some assignments.

## 23. Course Policies:

### A- Attendance policies:

Attendance of all lectures is obligatory; in any case absence should not exceed 15% of the contact hours.

### B- Absences from exams and handing in assignments on time:

Make up exam can be held only in emergency cases and the approval of the dean is a must.

### C- Health and safety procedures:

### D- Honesty policy regarding cheating, plagiarism, misbehavior:

The regulations of the University will be applied

### E- Grading policy:

First exam: 20%

Second exam: 20%

Assignments: 10 %

Final exam: 50%

### F- Available university services that support achievement in the course:

**24. Required equipment:**

A fully equipped conservation lab.

**25. References:**

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

1- Goffer, Z. 2007. Archaeological chemistry. London.

2- Lucas, A. 1990. Ancient material and technology. Cairo.

3- عبد الله، إبراهيم محمد 2012. ترميم تحف الفخار والزجاج والقاشاني. دار الوفاء لندنيا الطباعة والنشر والتوزيع، الإسكندرية، مصر.

B- Recommended books, materials, and media:

**26. Additional information:**

A facebook group will be established in order to facilitate communication among the students and the instructor. References and media will be supplied via this group.

Name of Course Coordinator: -----Signature: ----- Date:

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

Signature: -----

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



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

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

Assurance

Copy to:  
Head of Department  
Assistant Dean for Quality

Course File