



The University of Jordan
Accreditation & Quality Assurance Center

COURSE

1	Course title	Ancient Technology
2	Course number	2602202
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
4	Prerequisites/corequisites	-
5	Program title	B.A degree in Cultural Resources Management and Conservation
6	Program code	20
7	Awarding institution	The university of Jordan
8	Faculty	Faculty of Archaeology and Tourism
9	Department	Cultural Resources Management and Conservation
10	Level of course	2
11	Year of study and semester (s)	2016 / 1 st
12	Final Qualification	B. A
13	Other department (s) involved in teaching the course	
14	Language of Instruction	Arabic / English
15	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
 0790554398

17. Other instructors:

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

Mustafa Al-Naddaf
naddaf@yu.edu.jo
 0790554398

18. Course Description:

As stated in the approved study plan.

The course contains an introduction to the sources of studying technology in ancient times. In addition, it deals with the methods of manufacturing flint and stone, pottery, metal, glass, and organic artifacts. It also comprises teaching various subjects related to ancient technology e.g. measuring time and weights.

1. 19. Course aims and outcomes:

2.

A- Aims:

- Showing how ancient civilisations could create and manufactured their materials, and the techniques they used to measure time, weight and dimensions, from which their technological levels could be determined.

B- Intended Learning Outcomes (ILOs):

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

- Show the different methods used by ancient civilisations to manufacture pottery, glass, and metals.
- Determine methods of manufacturing of archaeological objects.

20. Topic Outline and Schedule:

3.

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Measurement of time	1	M. Al-Naddaf	- Introducing the students to the importance of the method used by ancient culture to measure time.	-	A handbook compiled from different resources
Measurement of weights Measurements of dimensions	2	M. Al-Naddaf	Enabling the students to understand the methods used by ancient culture to measure		A handbook compiled from different resources

			weight and dimensions.		
Starting fire techniques	3	M. Al-Naddaf	Enabling the students to understand the methods used by ancient culture to start fire.		A handbook compiled from different resources
Stone tool <ul style="list-style-type: none"> - Types - Manufacturing techniques 	4	M. Al-Naddaf	Enabling the students to understand the different types of stone tools and the methods of their fabrication.		A handbook compiled from different resources
Pottery <ul style="list-style-type: none"> - Raw material - Manufacturing process - Clay preparation Forming techniques 	5-6	M. Al-Naddaf	Enabling the students to know the raw materials used to make pottery and the manufacturing process.		A handbook compiled from different resources
Pottery <ul style="list-style-type: none"> - Firing - Types of kilns - 	7	M. Al-Naddaf	Enabling the students to know the pottery manufacturing process.		A handbook compiled from different resources
Glazes <ul style="list-style-type: none"> - Component of glazes - Preparation of Glazes - Applying the glaze - Colour decoration 	8	M. Al-Naddaf	Enabling the students to know the raw materials used to make glaze and the manufacturing process.		A handbook compiled from different resources
Glass <ul style="list-style-type: none"> - Glass vs Glaze - Glassmaking - Glassmaking - Mixing 	8	M. Al-Naddaf	Enabling the students to know the raw materials used to make glass		A handbook compiled from different resources

- Melting					
Glass - Glassmaking - Fabrication - Annealing - Finishing	9	M. Al-Naddaf	Enabling the students to know the manufacturing process of glass.		A handbook compiled from different resources
Copper and copper alloys - Copper ores - Copper production - Copper alloys	10	M. Al-Naddaf	Introducing the student to the different types of copper based objects.		A handbook compiled from different resources
Iron and steel - Iron production - Iron alloys	11	M. Al-Naddaf	Introducing the student to the different types of iron based objects.		A handbook compiled from different resources
Gold, silver, lead, tin, and mercury - Mining and extraction	12	M. Al-Naddaf	Introducing the student to the gold, silver lead tin and mercury, and their production.		A handbook compiled from different resources
Cement, mortar, and plaster	13	M. Al-Naddaf	Introducing the student to the different types building materials and their production processes		A handbook compiled from different resources
Textile manufacturing	14	M. Al-Naddaf	Introducing the student to the different types of organic materials and the methods for their production.		A handbook compiled from different resources



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 visit will be made traditional glass factory and traditional ceramic making workshop.

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:

A handbook compiled from the following resources:

Material Characterization Tests: For traditional techniques of analysis

Methods of physical examination in Archaeology /

Tite, M. S.

Publication: Seminar, London: 1972.

Current scientific techniques in archaeology /

Parkes, P.A.

Publication: Croom Helm, London: 1986.

Archaeological Chemistry : a sourcebook on the applications of chemistry to archaeology /
chemical analysis

Goffer, Zvi

Publisher: Wiley, New York: 1980.

B- Recommended books, materials, and media:

Material Characterization Tests: For traditional techniques of analysis

Methods of physical examination in Archaeology /

Tite, M. S.

Publication: Seminar, London: 1972.

Current scientific techniques in archaeology /

Parkes, P.A.

Publication: Croom Helm, London: 1986.

Archaeological Chemistry : a sourcebook on the applications of chemistry to archaeology /
chemical analysis

Goffer, Zvi

Publisher: Wiley, New York: 1980.

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: **M. Al-Naddaf** Signature: ----- Date:

4.09.2016

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

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

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

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

Assurance

Copy to:
Head of Department
Assistant Dean for Quality

Course File