



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	Conservation of Organic Materials and Manuscripts
2.	Course Number	2632443
3.	Credit Hours (Theory, Practical)	3
	Contact Hours (Theory, Practical)	3
4.	Prerequisites/ Corequisites	N/A
5.	Program Title	Cultural Resources Management and Conservation
6.	Program Code	02
7.	School/ Center	Archaeology and Tourism
8.	Department	Cultural Resources Management and Conservation
9.	Course Level	Fourth year
10.	Year of Study and Semester (s)	1/2025-2026
11.	Program Degree	BA
12.	Other Department(s) Involved in Teaching the Course	N/A
13.	Learning Language	English
14.	Learning Types	<input type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online
15.	Online Platforms(s)	<input type="checkbox"/> Moodle <input type="checkbox"/> Microsoft Teams
16.	Issuing Date	9/2018
17.	Revision Date	9/2024

18. Course Coordinator:

Name: Dr. Yazan Abu Alhassan	Contact hours:
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**19. Other Instructors:**

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20. Course Description:

This course deals with the deterioration and conservation of organic materials Cellulosic and protein sources such as wood, textiles, baskets, leather, bone, and ivory. In addition, the course deals with the restoration and treatment of ancient manuscripts paper, papyrus, parchment and leather. The recent techniques for treating and reading burned manuscripts are considered. Practical training is carried out in the Laboratory.

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)
Distinguish between the organic and non-organic artefacts, and the organic finds of animal or plant origin.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Recognize the preventive conservation for the modern books and ancient manuscripts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



during their storing or exhibiting.			
Recognize the health and safety procedures during the conservation and restoration of organic artefacts in the laboratory.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Preserving the organic artefacts from the deterioration factors.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conserving and restoring the organic artefacts according to their conditions and whether they will be in storage or exhibition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* 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	
Distinguish between the organic and non-organic artefacts, and the organic finds of animal or plant origin.	X	X		X			Knowledge
Recognize the			X				Knowledge



preventive conservation for the modern books and ancient manuscripts during their storing or exhibiting.							
Recognize the health and safety procedures during the conservation and restoration of organic artefacts in the laboratory.					X	X	Skills
Preserving the organic artefacts from the deterioration factors.				X	X		Competency
Conserving and restoring the organic					X	X	Competency



artefacts according to their conditions and whether they will be in storage or exhibition.														
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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	X	X	X					X						X		
K2			X									X		X		
S1							X								X	
C1											X					X
C2			X										X			X

***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 Difference between organic and non-organic materials	1.1	Fundamental characteristics of organic vs. inorganic materials.		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
	1.2	Behavior of both groups under environmental conditions.		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
	1.3	Implications for conservation strategies.		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
2 Basic types of organic materials according to their origin (Plant)	2.1	Plant-derived fibers and structural components.		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
	2.2	Anatomical features influencing preservation.		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
	2.3	Common archaeological plant-based artefacts.		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
3 Basic types of	3.1	Animal-based structural materials		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations 	



organic materials according to their origin (Animal)		(proteins, collagen, keratin)					<ul style="list-style-type: none"> • Group-Based Learning Discussion 	
	3.2	Physical and chemical characteristics		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based Learning Discussion 	
	3.3	Typical artefacts made from animal-origin materials		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based Learning Discussion 	
4 Deterioration of organic materials and general preservation approaches	4.1	Environmental factors causing deterioration (humidity, insects, light)		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based Learning Discussion 	
	4.2	Chemical and biological decay mechanisms		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based Learning Discussion 	
	4.3	Preventive conservation and stabilization strategies		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based Learning Discussion 	
5 Wood: material, decay, and treatment methods	5.1	Structure and properties of archaeological wood		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based Learning Discussion 	
	5.2	Types of wood decay (fungal, bacterial, mechanical)		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based Learning Discussion 	
	5.3	Conservation and consolidation methods		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based Learning Discussion 	



6 Bone and Ivory: material, decay, and treatment	6.1	Composition and structure of bone and ivory		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning Discussion 	
	6.2	Deterioration patterns specific to each material		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning Discussion 	
	6.3	Cleaning, stabilization, and restoration procedures		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning Discussion 	
7 Textiles (threads and fabrics): material, decay, and treatment	7.1	Types of archaeological textiles and fibers		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning Discussion 	
	7.2	Mechanical, chemical, and biological deterioration		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning Discussion 	
	7.3	Conservation strategies and storage techniques		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning Discussion 	
8 Basketry: material, decay, and method of treatment	8.1	Raw materials and construction techniques of basketry		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning Discussion 	
	8.2	Common decay forms (desiccation, fungal attack, breakage)		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning Discussion 	
	8.3	Approaches to cleaning, reshaping, and stabilization		Face to face			<ul style="list-style-type: none"> • Interactive lectures • Presentations • Group-Based • Learning 	



							Discussion	
9 Different types of manuscripts	9.1	Manuscript materials (paper, parchment, leather)		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
	9.2	Writing media (inks, pigments)		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
	9.3	Typologies and historical production methods		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
10 Methods of preserving and treating manuscripts	10.1	Cleaning and surface preparation for manuscripts		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
	10.2	Deacidification, repair, and reinforcement		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
	10.3	Storage, display, and preventive conservation		Face to face			<ul style="list-style-type: none"> Interactive lectures Presentations Group-Based Learning Discussion 	
11	11.1	Practical training in the lab for preserving and treating organic artefacts & manuscripts		Face to face			<ul style="list-style-type: none"> Report Team work <ul style="list-style-type: none"> Skills 	
	11.2							
	11.3							
12	12.1							
	12.2							
	12.3							
13	13.1							
	13.2							
	13.3							
14	14.1							
	14.2							
	14.3							



15 Discussing the resulted reports	15.1	Student presentations of practical work.		Face to face			Report Presentation skills
	15.2	Evaluation of chosen methods and materials.		Face to face			Report Presentation skills
	15.3	Feedback and final discussion		Face to face			Report Presentation skills

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	C1	C2
First Exam	30	X	X	X		
Second Exam –If any						
Final Exam	50	X	X	X	X	X
**Class work						
Projects/reports	10	X	X	X	X	X
Research working papers	5	X	X	X	X	X
Field visits						
Practical and clinical						
Performance Completion file						
Presentation/ exhibition	5	X	X	X	X	X
Any other approved works						
Total 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					
1	1	1	4	2	1	10	30	4	10%	K1
										K2
			X			1	30	1	10%	S1
										C1
	X	X					30	1	10%	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					
				X	X	2	50	1		K1
	X				X	2		1		K2
			X		X	1		2		S1
		X				1		1		C1
		X				1		3		C2

26. Course Requirements:

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



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:

28. References:

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

The Elements of Archaeological Conservation

B- Recommended books, materials, and media:

- Doni, M., Fierascu, I., & Fierascu, R. C. (2024). Recent developments in materials science for the conservation and restoration of historic artifacts. *Applied Sciences*, 14(23), 11363 — Includes modern consolidants and materials relevant to organic heritage, like paper and leather stabilisation.
- *Frontiers in Microbiology* (Geweely, N. S.). (2023). New frontiers review of recent conservation techniques of organic and inorganic archaeological artefacts against microbial deterioration. *Frontiers in Microbiology*, 14, 1146582 — Discusses modern organic materials conservation strategies.
- Journal of Cultural Heritage Editorial Board. (2025). *Journal of Cultural Heritage*, Vol. 73. Elsevier — Includes studies on conservation of organic components of heritage objects (e.g., wooden elements, manuscripts).
- Journal of Cultural Heritage Editorial Board. (2024). *Journal of Cultural Heritage*, Vol. 66. Elsevier — Contains analytical research on degradation and stabilisation of organic materials such as ink and paper.
- Special Issue: Organic Materials in Heritage Science (MDPI). (2023). *Heritage* — Collection of peer-reviewed articles on development and assessment of organic materials used in conservation.

29. Additional information:



Name of the Instructor or the Course Coordinator:	Signature:	Date:
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: