

ARCHEOMETRY

1	Course Title:	ARCHEOMETRY	
2	Course Code:	ARK5411	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	no	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. MUSTAFA ŞAHİN	
15	Course Lecturers:	Prof. Dr. Hüseyin Savaş Başkaya	
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Arkeoloji Bölümü Görükle- Bursa 16059 0.224.2941891/ e-mail: mustafasahin@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	To give a advanced information on Archeometry (Solutions to the archaeological problems by the application of scientific methods of natural and applied sciences).	
19	Contribution of the Course to Professional Development:	The student have information about the History and Basic instructions into Archaeometry, Methods to recognize archaeological sites (airphotography , collecting data, geophysical prospection), Dating methodology in Archaeology and Archaeometry(Radiocarbon dating and the other techniques).	
20	Learning Outcomes:		
		1	To be able to evaluate the archaeological finds with the help of natural, physical and ingeneering sciences
		2	To be able to discuss interdisciplinary studies
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Methods to recognize archaeological sites (Optical methods). Literature survey on the topic.		

2	Methods to recognize archaeological sites (geophysical prospection)(2). Literature survey on the topic.			
3	Dating methodology in Archeology and Archeometry(Radiocarbon dating) (1).Literature survey on the topic.			
4	Dating methodology in Archaeology and Archaeometry(other techniques) (2).Literature survey on the topic.			
5	Dating methodology in Archaeology and Archaeometry(other techniques) (3).Literature survey on the topic.			
6	Theoretical and practical concepts of analysis techniques which are used in determination of important parameters for archaeological materials (volumetric and gravimetric determination).(1) Literature survey on the topic.			
7	Theoretical and practical concepts of analysis techniques which are used in determination of important parameters for archaeological materials (volumetric and gravimetric determination).(2) Literature survey on the topic.			
8	Repeating courses and midterm exam			
9	Theoretical and practical concepts of analysis techniques which are used in			
Activites		Number	Duration (hour)	Total Work Load (hour)
10	Theoretical on the topic. Konu ile İlgili Örneklerin İncelenmesi	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study analysis techniques which are used in determination of important parameters for		14	6.00	84.00
Homeworks		0	0.00	0.00
Projects spectroscopy-AAS).(4) Literature survey on the topic.		0	0.00	0.00
Field Studies		0	0.00	0.00
11	Theoretical and practical concepts of analysis techniques which are used in	0	15.00	0.00
Others		0	0.00	0.00
Final Exam archaeological materials (colorimetry, UV-visible spectroscopy, nephelometry		1	23.00	23.00
Total Work Load				135.00
Total work load/ 30 hr				5.00
ECTS Credit of the Course				5.00
	determination of important parameters for archaeological materials (flame photometry, XRD).(6) Literature survey on the topic.			
13	Theoretical and practical concepts of analysis techniques which are used in determination of important parameters for archaeological materials (conductimetry, SEM) .(7) Literature survey on the topic.			
14	Theoretical and practical concepts of analysis techniques which are used in determination of important parameters for archaeological materials (SEM ,IR).(8) Literature survey on the topic.			

22	Textbooks, References and/or Other Materials:	1-Archeometry Textbooks, 2- “ Annual Archeometry Workshops of Ministry of Culture” (Vol.1-26) (www.kvmgm.gov.tr/belge/1-75558/ekitap.html)
23	Assesment	
TERM LEARNING ACTIVITIES		WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		The system of relative evaluation is applied.
24	ECTS / WORK LOAD TABLE	

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	1	3	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK2	1	1	1	1	5	1	4	3	1	1	1	1	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							