

BALIKESİR UNIVERSITY FACULTY OF DIVINITY / COLLEGE
UNIVERSITY ELECTIVE COURSE DESCRIPTION FORM

Department / Division	DEPARTMENT OF DIVINITY / PHILOSOPHY AND RELIGIOUS STUDIES					
Course Title	HISTORY OF ISLAMIC SCIENCE ()					
Course Term	Autumn			Spring		
Language of Instruction	Turkish			English		
Course Credits	Theory	2		Practical	0	Total Credits 2
Course ECTS	3					
Course Delivery Mode	Full-time			Elective		
Course Objective	To provide students with basic knowledge of the concepts of science, the history of science and the history of Islamic science; to introduce the development of science in Islamic civilisation, the relationship between science and religion, scientific institutions, and the contributions of prominent scientists to the history of humanity.					
Course Content	The course examines the fundamental concepts of the history of science in Islam, scientific developments within Islamic civilisation, scientific institutions, prominent scientists and their contributions to the history of science.					
Course Prerequisites	There are no specific or compulsory prerequisites for this course.					
Lecturers	Assoc. Prof. Dr Semra TUFENKÇİ			email: semra.tufenkci@balikesir.edu.tr		
Course Assistants				Email:		
Course Placement Status	-					
Course Resources	1. Bayraktar, Mehmet, History of Science and Technology in Islam, Ankara, 1992. 2. Yakıt, İsmail; Durak, Nejdet, History of Science in Islam, Isparta, 2002. 3. Sezgin, Fuad, Science and Technology in Islam I–V, 2007. 4. Sevim Tekeli, Esin Kâhya, History of Science, Ankara, 1997. 5. Hakimî, M. Rıza, A History of Science in Islam; Trans. Hüseyin Arslan, Istanbul, 1999. 6. Ural, Şafak, History of Science, Istanbul, 1998. 7. Rüşdi Raşid, A History of Science in Islam, trans. H. Türker, C. İpar, Istanbul, 2006. 8. Demirci Mustafa, Bayt al-Hikma, Istanbul, 1996. 9. Yaren, Cafer Sadık, Religion and Science, Samsun, 1997. 10. Seyyid Hüseyin Nasr, Science and Civilisation in Islam, trans. Nabi Avcı, Kasım Turhan, Ahmet Ünal, Istanbul, 1991.					
Course Structure	Theoretical knowledge					
Planned Learning Activities and Methods	Theoretical knowledge					
Course Assessment Criteria			Course ECTS Credit Calculation Content			
Term Assignments	Number	Contribution (%)	Activity	Number	Duration	Total Workload (Hours)
Mid-term exam	1	30	Lecture Duration			
Short Test			Out-of-Class Study Time			
Homework			Mid-term Exams	40		
Attendance			End-of-Term Exam	60		

Evrak Tarih ve Sayısı: 07.07.2026-E.698264		Practical		Total Workload: 74 hours	
Project		1	10	ECTS Credits: ...	
End-of-Term Exam		1	60		
Course Learning Outcomes					
Course Topics					
Week		Topic		Prere quisites	Documents
1		Science, the history of science and the history of science in Islam: Basic concepts, aims and methods			
2		The Origins of Science: The Concept of Science in Ancient Civilisations (Mesopotamia, Egypt, Greece)			
3		The Concept of Knowledge in Islam: The Qur'an, the Sunnah and the Concept of Knowledge; the Relationship between Science and Religion			
4		The historical background of scientific development in Islamic civilisation and the translation movements			
5		Institutions of learning: mosques, madrasas, the House of Wisdom, libraries, observatories and hospitals			
6		Developments in the fields of mathematics and astronomy			
7		Advances in medicine, pharmacy and chemistry			
8		Mid-term exam			
9		Studies in physics, optics and engineering			
10		Developments in geography, cartography and maritime studies			
11		Prominent scientists in the Islamic world I (e.g. Al-Khwarizmi, Al-Kindi, Al-Farabi)			
12		Prominent scientists in the Islamic world II (e.g. Ibn Sînâ, Al-Bîrûnî, Ibn al-Haytham)			
13		The transmission of the Islamic scientific heritage to Europe and its impact on the Renaissance			
14		Modern approaches to the history of Islamic science and current debates			
15		General assessment, student presentations and term assessment			
16		End-of-Term Exam			
Contribution to the Course Learning Outcomes			• Explains fundamental concepts relating to science, the history of science and the history of science in Islam. • Assesses the development of science within Islamic civilisation and the key dynamics influencing this process. • Identifies the main scientific institutions, branches of science and prominent scientists active within Islamic civilisation. • Analyses the contributions of the Islamic scientific heritage to the history of world science from a historical perspective. • Examines the relationship between science, religion and civilisation from a critical and comparative perspective		