



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Recent Developments in Science and Technology							
Course Code		FBÖ428		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to guide the aimed teacher candidates to scientific and technological research areas and to make young people want to work in these matters; To publicize scientific and technological studies in the most general sense; To explain fundamental and applied sciences and discoveries in these fields to those who are interested in innovation with a clear and understandable language.							
Course Content		The content of the course will be determined in the light of current developments. Scientific topics and technological developments that will awaken curiosity will be tried to be conveyed to a language that everyone can understand. In the course, original articles published in scientific technical journal prepared by Tübitak will be used. These articles and news are prepared by scientists, researchers and popular science writers.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Project Based Study, Individual Study					
Name of Lecturer(s)									

Prerequisites & Co-requisites

Equivalent Course	FBÖ358
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Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Science and Technic Magazine 2016 (January-December) monthly magazines (12 issues). Tübitak Publications
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to the course: General principles of the course, the importance of informing the students about the target, content, process and evaluation.
2	Theoretical	Examination of Science and Technical Magazines
3	Theoretical	Examination of Science and Technical Magazines
4	Theoretical	Examination of Science and Technical Magazines
5	Theoretical	Examination of Science and Technical Magazines
6	Theoretical	Examination of Science and Technical Magazines
7	Theoretical	Examination of Science and Technical Magazines
8	Intermediate Exam	midterm
9	Theoretical	Examination of Science and Technical Magazines
10	Theoretical	Examination of Science and Technical Magazines
11	Theoretical	Examination of Science and Technical Magazines
12	Theoretical	Examination of Science and Technical Magazines
13	Theoretical	Examination of Science and Technical Magazines
14	Theoretical	Examination of Science and Technical Magazines
15	Theoretical	evaluation
16	Final Exam	final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Assignment	14	1	1	28



Individual Work	12	0	1	12
Midterm Examination	1	6	1	7
Final Examination	1	10	1	11
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	a) Technological developments in healthcare b) Developments in the field of brain-mind-artificial intelligence c) World life social science developments d) Be aware of technological developments in space physics
2	Know the use of semiconductors and technologies, laser technology and superconductors.
3	Know communication technology and usage areas.
4	Know nanotechnology and usage areas.
5	It refers to the relationship between technology and greenhouse gases.

Programme Outcomes (Science Teacher Education)

1	To be able to gain subject knowledge of profession in theory and practice in the learning process.
2	To be able to gain the competence of using the appropriate approach, strategy, method and technique for the instructional plans to be prepared in the learning process.
3	To be able to gain the skills of the teaching profession in the learning process.
4	To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process.
5	To be able to comprehend contemporary approaches of education and the philosophy they are based on.
6	To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter.
7	To be able to become individuals faithful to the Principles and Revolutions of Atatürk, be modern democratic, secular, protecting and developing one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values
8	To be able to improve oneself in terms of sport, art and culture.
9	To be able to become individuals believing in lifelong learning.
10	To be able to gain the vision of being individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solutions of these problems.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	5		5	5	
P2	5	5	4	5	5
P3	5	4	5	5	5
P4	5	4	5	4	5
P5	5	5	5	4	5
P6		5		5	5
P7	5	4	5	5	4
P8	5	4	5	5	
P9	5	5	5	5	5
P10	5	5	5	5	5

