

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	echnology								
Course Code	FBÖ358		Couse Level		First Cycle (Bachelor's Degree)				
ECTS Credit 4	Workload 100 (Hours)		Theory	2	Practice	0	Laboratory	0	
Objectives of the Course	on areas and	importan	ce of science						
Course Content	technology, co technology, im scanning micro pharmaceutica and prevention	mmunication aging technic oscopes); tec al technology; n technologie:	technology; of technology; of the technology and of the chemical cless; GDO techn	different p s (ultrasor greenhous aning mat ology; ste	shysical sensor nics, NMR, tom se gases; wate terials and prod em cell technology	s, nanotechingraphy, so er-producing duction teching ogy; pharma	eir applications; X- nology; GPS and ra intillation, electron technologies; nologies; chemical aceutical and cosm cation; bioinformat	adar and pollution etic	
Work Placement N/A									
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	ation), Discussi	on, Case St	udy		
Name of Lecturer(s)	Hatice ÖZEN	NOĞLU							

Assessment Methods and Criteria								
Method Quantity Percentage (%								
Midterm Examination	1	40						
Final Examination	1	70						

Recommended or Required Reading

- 1 Douglas A. Skoog, F. James Holler, Stanley R. Crrouch. (2007). Principles of Instrumental Analysis (6.baskı), Philadelphia: Saunders College Pub.
- 2 McClellan, J., E., Dorn, H. (2013). Dünya Tarihinde Bilim ve Teknoloji (Çev. Yalçın, H.). Akılçelen Kitaplar
- 3 Pouge, D. (2016). Günlük Hayatın Bilimi. Çevirmen: Kurt, F. National Geographic Society. 1 Douglas A. Skoog, F. James Holler, Stanley R. Crrouch. (2007). Principles of Instrumental Analysis (6.baskı), Philadelphia: Saunders College Pub.

Week	Weekly Detailed Cour	urse Contents						
1	Theoretical	1. Semiconductors and technologies						
2	Theoretical	2. Laser technology, superconductors and applications						
3	Theoretical	3. X-rays and technology, communication technology						
4	Theoretical	4. Different physical sensors, nanotechnology						
5	Theoretical	GPS and radar technology, imaging techniques and tools (ultrasound, NMR, tomography, intillation, electron and scanning microscopes)						
6	Theoretical	6. Technology and greenhouse gases						
7	Theoretical	7. Water production technologies						
8	Intermediate Exam	midterm						
9	Theoretical	9. Pharmaceutical technology						
10	Theoretical	10. Chemical cleaning materials and production technologies						
11	Theoretical	11. Chemical pollution and prevention technologies						
12	Theoretical	12. GMO technology; stem cell technology						
13	Theoretical	13. Cosmetic products technology						
14	Theoretical	14. Prepared food technology						
15	Theoretical	15. Biological sensors; genetic copying; bioinformatics.						
16	Final Exam	final						

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)						
		[Total Workload (Hours) / 25*] = ECTS	4		
*25 hour workload is accepted as 1 ECTS						

Learn	ning Outcomes
1	1 Know the use of semiconductors and technologies, laser technology and superconductors.
2	2 They explains X-rays and technology.
3	Know communication technology and usage areas.
4	4 Know nanotechnology and usage areas.
5	5 It refers to the relationship between technology and greenhouse gases.
6	6 Order chemical cleaning materials and production technologies.
7	7 It recognizes the importance of chemical pollution and prevention technologies.
8	8 Expresses GMO technology and its usage areas.
9	Know stem cell technology and list its usage areas.
10	10 Know drug and cosmetic products and technologies.
11	11 Ready-to-eat food technology and Bioinformatics know and recognize the importance.

	, , ,								
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 Ataturk, 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 L6 L7 L8 L9 L10 L11

	LI	L2	L3	L4	LO	Lb	L/	L8	L9	LIU	LII
P1	5	5	5	5	5	5	5	5	5	5	4
P2	5	5	5	5	4	4	4	5	5	5	5
P3	5	5	5	5	4	5	4	5	5	5	5
P4	5	5	4	5	5	5	4	5	4	5	4
P5	4	4	5	4	4	4	5	5	4	5	5
P6	4	4	5	4	5	4	4	4	5	5	4
P7	4	5		4	4	4	5	5	5	5	5
P8	5	5			5	5	4	5	5	5	5
P9	5	4	5	4	4	4	4		4	4	5
P10	4	4	5	5	5	4	4	5	5	5	5

