

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Technology Assisted Practices in Science Education						
Course Code	Course Code IFB522 Couse Level Second Cycle (Master's Degree)		egree)				
ECTS Credit 8	Workload 200 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course To follow the developments on the field of Educational Technology							
Course Content	Learning and teaching cond Watson, Skinner), cognitive Merrill, Malachowski, Morris motivational theories	(Ausubel, Dale	e, Paivio,	Novak, Miller)	and descript	tive models (Reig	guluth,
Work Placement N/A							
Planned Learning Activities and Teaching Methods		Explanation (Presentation), Discussion, Project Based Study, Individual Study					
Name of Lecturer(s) Assoc. Prof. Burak FEYZİOĞLU							

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	60				

Recommended or Required Reading					
1	Bilgisayar ve Öğretim Teknolojileri Eğitimi Bölümleri İçin Özel Öğretim Yöntemleri I-II. Altun, E.				
2	Learning with computers, Analysing produvtive interaction, Karen Litteon & Paul Light, 1999.				
3	Web Based Education: Learning from Experience, Anil Aggarwal, 2003.				

Week	Weekly Detailed Cour	rse Contents
1	Theoretical	Information Technology
	Preparation Work	
2	Theoretical	Computer-based learning, Computer assisted learning
	Preparation Work	
3	Theoretical	Computer assisted learning practices
	Preparation Work	
4	Theoretical	Computer assisted learning practices, Distance Learning
	Preparation Work	
5	Theoretical	Web -based learning
	Preparation Work	
6	Theoretical	Hybrid learning
	Preparation Work	
7	Theoretical	The use of computers in education and its advantages
	Preparation Work	
8	Intermediate Exam	MIDTERM
9	Theoretical	The use of computers in education and its advantages
	Preparation Work	
10	Theoretical	Sample Computer Practices
	Preparation Work	
11	Theoretical	Sample Computer Practices
	Preparation Work	
12	Theoretical	Sample Field Practices
	Preparation Work	
13	Theoretical	Sample Field Practices
	Preparation Work	
14	Theoretical	Sample Field Practices
	Preparation Work	



15	Theoretical	Sample Field Practices	
	Preparation Work		
16	Final Exam	TERM	

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	2	3	70	
Assignment	5	10	0	50	
Reading	5	9	0	45	
Midterm Examination	1	10	2	12	
Final Examination	1	20	3	23	
	200				
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes

- 1 To be able to acquire the aspects of the educational software used in science education.
- 2 To be able todevelop course material according to different theories of learning.
- 3 To be able to examine models of instructional design.
- 4 To be able to develop different models of instructional design, and implement appropriate materials.
- 5 To be able to carry out teaching based on a selected teaching model

Programme Outcomes (Science Education Master)

- To be able to have an expert theoretical knowledge within the field of science education.
- 2 To be able to transfer expert knowledge gained in science education into various instructional environment.
- 3 To be able to integrate science education knowledge with the other disciplines and product functional knowledge
- 4 To be able to use information and communication technologies efficiently in conceptual learning
- 5 To be able to find scientific solutions to the problems in the field of science education
- 6 To be able to evaluate the knowledge critically in the field
- 7 To be able to participate in team projects in the science education field
- 8 To be able to adopt lifelong learning strategies to his/her studies
- 9 To be able to use at least one foreign language efficently in oral and verbal communication
- 10 To be able to share national and international data in the field of science education
- 11 To be able to comprehend and evaluate science-technology-society and environment interactions
- 12 To be able to comprehends science under the ethical values and take account of ethical considerations
- To be able to use scientific information in the other domains that is gained in the masters field and have the transfer skills
- 14 To be able to follow the current development in the science education field
- 15 To be able to develop strategical plans and evaluate them in the context of quality processes

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	4	4		
P2		5		5	5
P3	4	3	4	4	5
P6			4		5
P7	4	4			5
P8	4	4	5	4	5
P11	4	3		4	5
P13	4	4			
P14	5	5	4	4	5
P15		5	4	3	

