



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Science Learning Teaching Approaches							
Course Code		FBÖ251		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aims and fundamental principles of science education and how various learning approaches are reflected to science instruction is presented to students by supporting in-class activities.							
Course Content		The meaning of science learning and instruction; The aims and principles of science instruction; the history of science instruction; the reflection of learning and teaching approaches to science education; fundamental skills in science instruction; examples of in-class applications; current inclinations and problems in science instruction; the components of effective science instruction; social, cultural and economic viewpoints to science instruction.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)		Lec. Hediye CAN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Fen ve Teknoloji Öğretimi (Kuramdan Uygulamaya) Pegem Yayınları
2	Fen Öğretimi Bilim Tarihinin ve Felsefesinin Katkısı, Michael R. Matthews, Boğaziçi Üniversitesi Yayınevi
3	Fen Öğretimi, Sabahattin Türkoğlu, Nobel Akademik Yayıncılık

Week	Weekly Detailed Course Contents	
1	Theoretical	1 Meaning of science learning
2	Theoretical	2 Meaning of science teaching
3	Theoretical	3 Aim of science learning
4	Theoretical	4 Fundamental principles of science instruction
5	Theoretical	5 History of science instruction
6	Theoretical	6 Reflections of learning approaches to science instruction.
7	Theoretical	7 Reflections of teaching approaches to science instruction
8	Intermediate Exam	midterm
9	Theoretical	9 Fundamental skills in science instruction.
10	Theoretical	10 In-class application examples in science instruction
11	Theoretical	11 Current inclinations in science instruction.
12	Theoretical	12 Cuurent problems in science instruction
13	Theoretical	13 Components of an effective science instruction.
14	Theoretical	14 Social, cultural and economic viewpoints to science instruction.
15	Theoretical	15 Social, cultural and economic viewpoints to science instruction.
16	Final Exam	final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Midterm Examination	1	7	0	7



Final Examination	1	12	0	12
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. Comprehends the meaning of science learning and instruction.
2	2. Explains the fundamental aims and principles of science instruction.
3	3. Has an idea about history of science instruction.
4	4. Elicits reflections of various learning and teaching approaches to science instruction.
5	5. Gains fundamental skills about science instruction and applies them in class.
6	6. Investigates current problems in science education.
7	7. Explains the components of an effective science instruction.
8	8. Analysis science instruction with respect to social, cultural and economic viewpoints.

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 deveoping 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
P1	5	5	5	5	5	5	5	5
P2	4	4	4	4	4	4	5	4
P3	5	5	5	5	5	5	4	5
P4	4	4	4	4	4	4	5	4
P5	5	5	5	5	5	5	5	5
P6	4	4	4	4	4	4	5	4
P7	5	5	5	5	5	4	5	5
P8	4	4	4	4	4	5	5	4
P9	5	5	5	5	5	4	5	5
P10	4	4	4	4	4	5	5	4

