



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Constructivism in Science Education							
Course Code		FBÖ416		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		Learning constructivism in science education							
Course Content		Constructivist learning approach, the importance of constructivist learning approach in elementary science teaching program, teaching-learning process in constructivism, learning principles of constructivism, methods and strategies which are used in constructivist learning environments, features of constructivist classrooms, teaching practices in constructivism.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Project Based Study, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Özden, Yüksel. Öğrenme ve Öğretme 3. Baskı, Ankara: Pegem Yayıncılık, 1999.
2	Saban, Ahmet. Öğrenme Öğretme Süreci Yeni Teori ve Yaklaşımlar, Ankara: Nobel Yayıncılık, 2000
3	Şen, H. Şenay "Yapısalcı Öğrenme Ortamları ve Öğretmenin Rolü" Çağdaş Eğitim 284, 39-44, Şubat 2002.
4	Yaşar, Şefik. "Yapısalcı Kuram ve Öğrenme Öğretme Süreci" Anadolu Üniversitesi Eğitim Fakültesi Dergisi 8: 68-75, 1998.
5	Yurdakul, B. "Yapılandırmacılık" Eğitimde Yeni Yönelimler Ed. Özcan Demirel, Ankara: PegemA Yayıncılık, 2005.

Week	Weekly Detailed Course Contents	
1	Theoretical	Constructivist learning approach
2	Theoretical	Constructivist learning approach
3	Theoretical	the importance of constructivist learning approach in elementary science teaching program
4	Theoretical	the importance of constructivist learning approach in elementary science teaching program
5	Theoretical	teaching-learning process in constructivism
6	Theoretical	teaching-learning process in constructivism
7	Theoretical	learning principles of constructivism
8	Theoretical	methods and strategies which are used in constructivist learning environments,
9	Intermediate Exam	Midterm exam
10	Theoretical	methods and strategies which are used in constructivist learning environments,
11	Theoretical	features of constructivist classrooms
12	Theoretical	features of constructivist classrooms
13	Theoretical	teaching practices in constructivism
14	Theoretical	teaching practices in constructivism
15	Theoretical	teaching practices in constructivism
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	14	0	1	14
Term Project	14	0	1	14
Individual Work	14	0	2	28
Midterm Examination	1	4	1	5



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	Knowing fundamental basis of constructivism
2	Knowing Mathematics Course Teaching Program's basic features
3	Understanding students' and teacher role in constructivism
4	Being able to arrange activities related with constructivism.
5	Being able to present own activities.

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
P2	3	3	3	3	
P3		3	3		4
P5	3	3			
P6	3				

