



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Science Education in Early Childhood							
Course Code		OÖÖ223		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	6	Workload	148 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To provide pre-service teachers to understand the importance of science education in pre-school period. To be able to plan and implement science activities that will support scientific process skills.							
Course Content		Definition and importance of science education in early childhood; principles and standards in science education; scientific process skills; the nature of science, the concepts of science education and the techniques and methods of teaching scientific thinking skills; organizing learning centers in science education; science programs used in early childhood education (Science, Education, Tool Kit for early childhood); basic concepts of science education; planning and implementation of science activities.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Assoc. Prof. Duriye Esra ANGIN, Lec. Nisa BAŞARA BAYDİLEK							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Akman, B., Uyanık Balat, G. Ve Yıldız, T. G. (2017). Okul öncesi dönemde fen eğitimi. Ankara: Anı Yayıncılık.
2	Kandır, A., Yaşar, M. C. ve Tuncer, N. (2011). Okul öncesi dönemde fen eğitimi. İstanbul: Morpa Yayıncılık.
3	Topçu, M. S. ve Özkan B. (Edt). (2018). Erken çocuklukta fen eğitimi. İstanbul: Efe Akademi.

Week	Weekly Detailed Course Contents	
1	Theoretical	Examining the course content and plan
2	Theoretical	Definition and importance of science education in early childhood, science activities in terms of preschool education program Principles and standards in science education; scientific process skills-introduction
3	Theoretical	Scientific process skills The nature of science
4	Theoretical	Gaining basic science education concepts
5	Theoretical	Learning the concepts of basic science education / pre-school education program
6	Theoretical	Techniques and methods of teaching the concepts of science education and scientific thinking skills
7	Theoretical	Techniques and methods of teaching the concepts of science education and scientific thinking skills
8	Theoretical	Homework submission
9	Theoretical	The place of science activities in preschool education program Science programs used in early childhood education (Wings of Discovery, Early childhood science, Hands Dough)
10	Theoretical	The place of science activities in preschool education program Science programs used in early childhood education (Wings of Discovery, Early childhood science, Hands Dough)
11	Theoretical	Planning and implementation and evaluation of science activities
12	Theoretical	Planning and implementation and evaluation of science activities
13	Theoretical	Planning, implementation and evaluation of science activities
14	Theoretical	Organizing learning centers in science education
15	Theoretical	Organizing learning centers in science education
16	Theoretical	Homework submission



**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Assignment	6	6	2	48
Individual Work	5	5	1	30
Total Workload (Hours)				148
[Total Workload (Hours) / 25*] = <b>ECTS</b>				6

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	Knows the principles and standards in science education.
2	Knows scientific process skills.
3	Evaluate science activities in terms of scientific process skills.
4	Can prepare materials, activities that can be used in science education.
5	Can organize science activities according to different science education programs.

**Programme Outcomes (Early Childhood 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, technique for the plans in the learning process, by making instructional plans related to the subject-matter.
3	To be able to gain 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 philosophies 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 educate 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 solution 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	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	4	4	4	4	4
P6	4	4	4	4	4
P7	3	3	2	2	2
P8	2	2	2	2	2
P9	3	4	3	3	3
P10	3	3	3	3	2

