

Kırıkkale University

FACULTY OF EDUCATION **ELEMENTARY SCHOOL TEACHER EDUCATION**

SNÖ3001	Science Teach	ning			
Semester	Course Unit Code	Course Unit Title	L+P	Credit	Number of ECTS Credits
5	SNÖ3001	Science Teaching	3	3	4

Mode of Delivery: Face to Face

Language of Instruction:
Turkish
Level of Course Unit:
Bachelor's Degree
Work Placement(s):

No
Department / Program:
ELEMENTARY SCHOOL TEACHER EDUCATION
Type of Course Unit:
Required
Objectives of the Course:
This course aims to provide basic knowledge and skills about teaching science subjects to undergraduate students.
Teaching Methods and Techniques:
The main topics covered in this course are: basic concepts of science and science education, features of science, technology, scientific knowledge and scientific method, science and technology literacy, history of science and science, research based science education, sample research based applications.
Prerequisites and co-requisities:

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Course Coordinator:

Name of Lecturers: Dr. Öğr. Üyesi KADER BİLİCAN Assistants:

Recommended or Required Reading

Çepni, S. 2009. (Ed). Kuramdan Uygulamaya Fen ve Teknoloji Öğretimi, Pegema Yayıncılık, 7. Baskı, Ankara

Temizyürek, K. Fen Öğretimi ve Uygulamaları, Nobel Yayıncılık.

Aydoğdu, M. ve Kesercioğlu T. İlköğretimde Fen ve Teknoloji Öğretimi, Anı Yayıncılık.

Course Category			
Mathmatics and Basic Sciences	:	Education	:
Engineering	:	Science	:
Engineering Design	:	Health	:
Social Sciences		Field	

Weekly	y Detailed Course Contents			
Week	Topics		Study Materials	Materials
1	Scientific literacy	(0)	Doing required readings	Bahar, M. (2006) Fen Teknoloji Ö¿
2	Nature of science,		Doing required readings	Bahar, M. (2006) Fen Teknoloji Ö¿
3	Science Process Skilss	(1 O	Doing required readings	Bahar, M. (2006) Fen Teknoloji Öर्
4	Constructivism in Science Teaching		Doing required readings	Bahar, M. (2006) Fen Teknoloji Ö¿
.5	Conceptual Teaching		Searching for scientific misconceptions	Bahar, M. (2006) Fen Teknoloji Ö¿
6	Inquiry Based Teaching		Doing required readings	Bahar, M. (2006) Fen Teknoloji Ö¿
.7	Learning Cycles (3E, 5E, 7E(Textbook analysis	Bahar, M. (2006) Fen Teknoloji Ö¿
8	Midterm			
9	STEM yaklaşımı		Doing required readings	Bahar, M. (2006) Fen Teknoloji Ö¿
10	STEM application examples		Providing materials for the required act	Bahar, M. (2006) Fen Teknoloji Ö
.11	microteaching		Not applicable	Bahar, M. (2006) Fen Teknoloji Ö¿
12	Mikroteaching		Not applicable	Bahar, M. (2006) Fen Teknoloji Ö¿
13	. Mikro teaching		Not applicable	Bahar, M. (2006) Fen Teknoloji Ö¿
14	. Microteaching		Not applicable	Bahar, M. (2006) Fen Teknoloji Ö¿
15	General evealuation of the class/Finals		Not applicable	Bahar, M. (2006) Fen Teknoloji Öर्

Course Learning Outcomes

No	Learning Outcomes
C01	At the end of this course, the student defines and distinguishes the terms of science, science and technology,
C02	Explains the concept of scientific literacy and the characteristics of scientific literate person
C03	Completiend the aims of the science curriculum
C04	Designing and applying student-centered science activities
C05	The themes that make up the nature of science are the sequences and explanations
C06	Designing and applying inquiry based science activities
C07	Desinging and applying STEM activities

Program Learning Outcomes

Assessment Methods and Criteria									
In-Term Studies	Quantity	Percentage							
Mid-terms	1	%40							
Quizzes	0	%0							
Assignment	0	%0							
Attendance	0	%0							
Practice	0	%0							
Project	0	%0							
Final examination	1	%60							
Total		%100							

Activities	Quantity	Duration	Total Work Load
Course Duration	16	3	48
Hours for off-the-c.r.stud	16	2	32
Assignments	5	4	20
Presentation	5	4	20
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	20	20
Total Work Load			150
ECTS Credit of the Course			5

Contribution of Learning Outcomes to Programme Outcomes

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20)																
All	1	2	2	3	5	2	1	2	1	1	5	5	4	3	1	4	2	2	3	1																	
C01	1	2	2	3	4	2	2	1	1	1	5	5	2	3	1	3	2	2	3	1																	
C02	1	2	2	3	5	2	1	1	1	1	5	5	2	2	1	3	2	2	3	1																	
C03	1	2	2	2	5	2	1	1	1	1	5	5	4	3	1	3	2	2	3	1																	
C04	1	2	2	2	5	1	1	1	1	1	5	5	4	3	1	3	2	2	3	1																	
C05	1	2	2	2	5	1	1	1	1	1	4	5	3	3	1	3	2	3	3	1																	
C06	1	2	2	2	5	1	1	3	1	1	5	5	5	5	1	4	4	2	4	1]																
C07	1	2	2	2	5	1	1	3	1	1	5	5	5	5	1	4	4	2	4	1	1																
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