CURRENT ISSUES IN SCIENCE EDUCATION

1	Course Title:	CURRENT ISSUES IN SCIENCE EDUCATION
2	Course Code:	FEN0105
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. ZEHRA ÖZDİLEK
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	zozdilek@uludag.edu.tr, 224 2942281, Bursa Uludağ Üniversitesi Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü/Fen Bilgisi Öğretmenliği Lisans Programı
17	Website:	
18	Objective of the Course:	It aims to examine current studies, trends and issues in the field of science education from an in-depth and critical perspective.
19	Contribution of the Course to Professional Development:	This course helps prospective science teachers learn the meaning of learning and teaching science, the purpose and basic principles of science teaching, basic skills in science teaching, current trends and problems in science teaching, and the components of effective science teaching.
20	Learning Outcomes:	
	1	Researches current issues in the field of science teaching in the world and in Turkey.
	2	Discusses problem situations and solution suggestions in studies using new approaches.
	3	Becomes aware of current science teaching problems and new trends in Turkey and the world.
	4	She/he discusses how solutions to science teaching problems can be proposed with the current approaches she proposes.
	5	Plans and implements lessons based on current issues.
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	A Critical View of the Constructivist Approach in Science Education	
2	Science Communication	

3	Research techniques in science education	
4	Scientific explanations and arguments	
5	Nature of science	
6	Concept teaching in science education	
7	Technology-supported science teaching and material design	
8	STEAM education	
9	environmental education	
10	Measurement and evaluation in science	
11	Evaluation of lesson plans prepared on the basis of current approaches	
12	Evaluation of lesson plans prepared on the basis of current approaches	
13	Evaluation of lesson plans prepared on the basis of current approaches	
14	Evaluation of lesson plans prepared on the basis of current approaches	

22	Textbooks, References and/or Other Materials:	FEN EĞİTİMİNDE GÜNCEL KONULAR Editör: Doç. Dr. Özgür TAŞKIN, ISBN 978-605-241-088-2 INTERNATIONAL JOURNAL OF SCIENCE EDUCATION SCIENCE EDUCATION TECHNOLOGY STUDIES IN SCIENCE EDUCATION EGITIM VE BILIM-EDUCATION AND SCIENCE MATHEMATICS SCIENCE AND TECHNOLOGY

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	0	0.00	0.00
Homeworks	5	10.00	50.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			118.00
Total work load/ 30 hr			3.93
ECTS Credit of the Course			4.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Within the scope of this course, students will be asked to implement performance tasks during the semester. At the end of the semester, an open-ended final exam will be held.

24	**ECTS / WORK LOAD TABLE**

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5
ÖK2	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5
ÖK3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
ÖK4	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5
ÖK5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**				**5 Very High**			