

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Teaching of Socioscientific Issues in Science Education							
Course Code		İFB527		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 8		Workload	200 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the (Course	existence. So community life have a positiv life; Complex, (SSI). These definitive solu enable them t	ciety is makin e directly or in ve effect on so open-ended, topics include tions. The aim	g progress in directly. This ciety life. It is and uncontro the facts of e of this cours these issues	science in interaction thought th oversial cor everyday lifese is to pro- , and to ena	I line with its n in science an nat it has positi ntroversial issu e, and in gene vide the stude	eeds, and fu d technolog ive and nega ues are know eral, there ar nts with info	ction since mankir iture progress also y can not always b ative effects on the wn as socioscientif e topics that are n rmation about the onal, local, global i	affects be said to society ic issues ot SSI, to
Course Content		in daily life, pr based on evic values when o the characteri	roviding basic dence about so deciding on SI istics and dime	information a ocio-scientific BS. The cour ensions of S	about these c issues, ar se focuses SI, the natu	e subjects, tea nd informing a s on science te	ching argum bout the use chnology lite nature of so	echnological deve ent development s and importance c eracy, sociological cientific literacy and	skills of moral aspects,
Work Placement		N/A							1
Planned Learning	Activities	and Teaching	Methods	Explanation	(Presenta	tion), Discussi	ion		
Name of Lecturer(s) Prof. Dilek KARIŞAN KORL									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

Topçu, M. S. (2015) SosyoBilimsel Konular ve Öğretimi, Pegem Yayincilik. Sadler, T. D. (2009). Situated learning in science education: Socioscientific issues as contexts for practice. Studies in Science Education, 45(1), 1-42. Sadler, T. D., & Zeidler, D. L. (2005). Patterns of informal reasoning in the context of socioscientific decision making. Journal of Research in Science Teaching, 42(1), 112-138. Zeidler, D. L. (2014). Socioscientific Issues as a Curriculum Emphasis: Th eory, Research and Practice. In S. K. Abell & N. G. Lederman (Eds.), Handbook of Research on Science Education (pp. 697-725). Mahwa, NY: Routledge, Taylor and Francis. Zeidler, D. L., Walker, K. A., Ackett, W. A., & Simmons, M. L. (2002). Tangled up in views: Beliefs in the nature of science and responses to socioscientific dilemmas. Science Education, 86(3), 343-367.

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Science and Technology literacy
2	Theoretical	Introduction to Sociscientific Issues (SSI)
3	Theoretical	The characteristics and dimensions of the SSI
4	Theoretical	Development and history of SSI
5	Theoretical	The Importance of SSI in science education
6	Theoretical	Teaching framework for SSI teaching
7	Theoretical	Sample lesson plans for SSI teaching
8	Intermediate Exam	mid term
9	Theoretical	SSI and moral perspective
10	Theoretical	SSI and social Media
11	Theoretical	SSI and argumentation
12	Theoretical	SSI and its applications
13	Theoretical	An overview of SSI
14	Theoretical	Examples of SSI
15	Final Exam	final exam



1

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Assignment	5	10	0	50
Reading	5	9	0	45
Practice Examination	1	20	3	23
Midterm Examination	1	10	2	12
	200			
	8			

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Recognizing the position and importance of SSI in science education
2	To know the general characteristics of SSI
3	Knowing SSI applications
4	Understanding SSI and its argumentation relationship
5	SSI-based lesson planning

Programme Outcomes (Science Education Master)

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1	To be able to have an expert theoretical knowledge within the field of science education.
2	To be able to transfer expert knowledge gained in science education into various instructional environment.
3	To be able to integrate science education knowledge with the other disciplines and product functional knowledge
4	To be able to use information and communication technologies efficiently in conceptual learning
5	To be able to find scientific solutions to the problems in the field of science education
6	To be able to evaluate the knowledge critically in the field
7	To be able to participate in team projects in the science education field
8	To be able to adopt lifelong learning strategies to his/her studies
9	To be able to use at least one foreign language efficently in oral and verbal communication
10	To be able to share national and international data in the field of science education
11	To be able to comprehend and evaluate science-technology-society and environment interactions
12	To be able to comprehends science under the ethical values and take account of ethical considerations
13	To be able to use scientific information in the other domains that is gained in the masters field and have the transfer skills
14	To be able to follow the current development in the science education field
15	To be able to develop strategical plans and evaluate them in the context of quality processes

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	4	4	5	4	4
P2	5	5	4	5	5
P3	4	4	5	4	5
P4	5	4	4	4	5
P5	3	5	3	5	5
P6	4	5	4	5	4
P7	4	3	5	4	4
P8	3	3	5	4	3
P9	3	4	4	5	5
P10	4	5	4	5	4
P11	3	5	5	4	5
P12	4	4	5	4	4
P13	3	3	4	5	5
P14	4	4	5	5	5
P15	3	5	5	4	5

