PROJECT BASED LEARNING AND PRACTICES IN SCIENCE EDUCATION										
1	Course Title:	PROJECT BASED LEARNING AND PRACTICES IN SCIENCE EDUCATION								
2	Course Code:	FEN012	4							
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	le							
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:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Doç. Dr.	DİLEK ZEREN ÖZER							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi, Eğitim Fakültesi E Blok, Oda no: 231 Görükle, Bursa. +90 (224) 294 22 59 dzeren@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	To gain the ability to plan, develop and implement projects at secondary school level based on the project-based learning approach in science education.								
19	Contribution of the Course to Professional Development:	Contribution to academic development								
20	Learning Outcomes:									
		1	Students will be able to prepare, implement and reflect on a teacher-guided instructional lesson plan based on project-based learning and research-inquiry that is egalitarian and encourages participation.							
		2	Students will be able to discuss, criticise and reflect on project-based teaching practices in relation to teaching and learning.							
		3	Students will be able to compare, contrast and evaluate project-based and other teaching approaches.							
		4	Students will be able to collaboratively develop a 3-4 week project-based integrated unit and showcase the project in an environment such as a web-based or project exhibition.							
		5	Students will be able to develop, implement and guide micro-level project-based activities in collaboration with secondary school students in a real-world setting.							
		6	The learner will be able to create and evaluate alternative assessments appropriate for project-based teaching.							
		7								
		8								
		9								
		10								

21	Course Content:										
	Course Content:										
Week	Theoretical	Practice									
1	Project concept and history; Project method Project-based learning approach Features of Project Based Learning Approach										
2	Fundamentals of project-based learning environments; The use of project-based learning in science education.										
3	Positive and Negative Aspects of Project Based Learning Approach, Effects of Project Based learning on cognitive and skill development in students										
4	Developing lesson plans for project-based learning in science education										
5	Classroom management and organisation of project-based learning classrooms basic concepts related to project management (project management plan, risk analysis, time management, labour management, etc.)										
6	Introduction of national and international supported project opportunities that can be carried out in schools in the field of science teaching (TUBITAK, National Agency,										
Activit	es	Number	Duration (hour)	Total Work Load (hour)							
Theore	Thating a needs analysis, leal Examination of project examples related to	14	2.00	28.00							
Practica	als/Labs	0	0.00	0.00							
Self stu	Steps of project preparation in science	14	3.00	42.00							
Homew	vorks	5	10.00	50.00							
Project	carrying out the project; evaluation of the	0	0.00	0.00							
Field S	tudies	0	0.00	0.00							
Mi <b></b> gern	Nexamisement and evaluation in project-	0	0.00	0.00							
Others		0	0.00	0.00							
Final E	environments activities.	1	5.00	5.00							
Total W	/ork Load			125.00							
Total w	ork load/ 30 hr			4.17							
ECTS (	Credit of the Course			4.00							
12	Science Fairs, Project Exhibitions, Project Competitions										
13	Project-based learning applications in science education										
14	Project-based learning applications in science education										

22	Text Mate	extbooks, References and/or Other aterials:								<ul> <li>Erdem, M. (2002). Proje tabanlı öğrenme. Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, 22(22).</li> <li>Vatansever Bayraktar, H. (2015). Proje tabanlı öğrenme yaklaşımı. Uluslararası Sosyal Araştırmalar Dergisi/The Journal of International Social Research.</li> <li>Korkmaz, H., &amp; Kaptan, F. (2001). Fen eğitiminde proje tabanlı öğrenme yaklaşımı. Hacettepe Üniversitesi Eğitim Fakültesi Dergisi, 20(20).</li> <li>https://ets.anadolu.edu.tr/storage/nfs/IKT102U/ebook/IKT 102U-13V2S1-8-0-1-SV1-ebook.pdf</li> </ul>								
23	Asse	esme	ent				_		_									
TERM LEARNING ACTIVITIES						NUMBE R	E	WEIGHT										
Midtern	n Exa	am					(	0	0.0	0.00								
Quiz 0							0	0.0	0.00									
Home work-project 5							5	40	40.00									
Final Exam 1							1	60	60.00									
Total								6	10	100.00								
Contribution of Term (Year) Learning Activities Success Grade						s to	40	40.00										
Contribution of Final Exam to Success Grade							60	60.00										
Total							10	100.00										
Measurement and Evaluation Techniques Used in the Course							ie Me the Un	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.										
24	EC	rs /	WOI	RK L	OAD	TAB	LE											
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	Ļ	5	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5	
ÖK2	ų	5	1	5	1	5	1	5	1	5	5	1	5	1	1	1	1	
ÖK3	ę	5	5	1	5	1	5	1	5	1	5	1	5	1	1	1	1	
ÖK4	ų	5	1	5	1	5	1	5	1	5	1	5	5	1	1	1	1	
ÖK5	ť	5	1	5	1	5	1	5	1	5	5	5	1	1	1	1	1	
ÖK6	ţ	5	5	1	5	1	5	1	5	1	5	1	1	1	1	1	1	
LO: Learning Objectives PQ: Program Qualifications																		
Contrib 1 very low ution Level:		2 low 3 M		Med	ium	n 4 High			5 Very High									