Course Information										
Course Code	Т							Year/Semester		
FİZ1003	2	0	0	1	3	C	TR	1/Fall		
Course Name (Turkish)	I aboratuvar I okniči vo K avnak I arama									
Course Name (English)	Laborato	Laboratory Technique and Source Scanning								

Unit/Program	rogram Physics Department/Undergraduate Program									
Course Prerequisite	There are no prerequisites									
Course Objectives	To ensure the discipline and safety of working in the laboratory, to recognize laboratory equipment and equipment and to learn the device features, to learn to scan resources by using library automation in order to develop resource scanning skills, which is the first step necessary for scientific studies, and to gain the ability to combine and interpret information about the desired subject, and to turn the information and results obtained into a scientific report.									
Course Outline	This course; Laboratory working principles, laboratory safety, laboratory equipment and equipment, Planning an experiment, setting up the setups, keeping an experiment notebook and writing a report, general evaluation, Basic concepts related to research, research stages, problem and hypothesis selection, library use and literature review, critical thinking in research, control of variables, research Prepare the report.									
Textbook/ Material / Resources	 Laboratory Technique. Cem Karagözlü, Necati Akbulut. Ege University Faculty of Agriculture Kaptan, S. (1998) Scientific Research and Statistical Techniques, Ankara Science Book. 									
Internship Status										
		Course Precedents								
University Name	Program Namo I Colirco Namo									
Uludag University	Education Faculty	Source Scanning and Report Writing	1-2-0-2-4	С						
Pamukkale University	1-2-0-2-3	С								
The instructor wh	Signo	Signature								
Instructors who c	Signo	Signature								

Academic justification for the opening of the course? (The effect of course outcomes on program outcomes, etc.)

Brief explanation of the course (theoretical lecture, applications, laboratory, studio, off-campus activity, using software, etc.)

External Stakeholder Opinions About the Course (It is expected that the opinions to be obtained from the business world that will employ your graduates or from real or legal persons outside the University who have expertise on the subject of the course will be specified. Proof documents must be attached to this form.)

the course will be specified. I roof documents must be attached to this form.)							
Stakeholder Name	Opinion (It should be given as a summary, it should not exceed two lines.)						

	Weekly Course Content Distribution								
Week	Theory	Application/Laboratory							
1	Laboratory Safety and First Aid								
2	Laboratory Accidents and First Aid								
3	Laboratory Instruments and Equipment								
4	Scientific Method and Stages								
5	Determining the Research Topic / Problem - Solve the Research Problem Selection Criteria								
6	Source Scan								
7	Effective use of the library and computers to access resources. Major databases that can be used in the scientific field.								
8	Ethics in Scientific Research								
9	Perform sample source scans								
10	Midterm Exam								
11	Content in the Preparation of Scientific Research Reports								
12	Indirect citation In-Text Citations								
13	Method Section Results and Interpretation Section								
14	Discussion – Conclusion and Recommendations Section								
15	Finale								
16									

Assessment									
	Activity	Custom	Contribution to Success Grade (%)						
	Midterm Exams	1	40						
	Quizzes								
	Assignments								
Evaluation Criteria	Projects								
	Term Paper								
	Laboratory								
	Other								
	Final Exam	1	60						
		Sum:	100						
Remarks									
	Mathematics and Basic Sciences	100							
	Engineering Sciences								
Content Design and	Social Sciences								
Subject Weight (%)	Health Sciences								
	Educational Sciences								
	Culture and Art Sciences								
	Design Information								

Workload (ECTS) Calculation									
Events	Events Number Duration (Hours)								
Fieldwork									
Midterm Exam Application	1	1	1						
Self-Study (including pre-class and exam preparation)	1	2	2						
Make-up Exam	1	1	1						
Experiment and Observation									
Class Participation (Theory)	14	2	28						
Homework									
Final Exam Practice	1	1	1						
Laboratory									
Article Review									
Writing an Article									
Reading	14	1	14						
Case Study									
Performance									
Problem Solution									
Project Preparation									
Project Submission									
Quiz	Report Preparation								
Submitting Reports									
Role/Drama Work									
Seminar									
Oral Exam									
Team/Group Work	14	1	14						
Argument	14	1	14						
Application/Practice									
Other									
	Total Workload:								
EC (The number obtained as a result of Total re	3								

	The Relationship Between Course Learning Outcomes and Program Outcomes												
Program Outcomes (PO) Learning Outcomes (LO) (Course Outcomes)		1	2	3	4	5	6	7	8	9	10	11	12
1	Learns the rules to be followed while working in the laboratory and takes the necessary precautions	5	5	5	1	1	1	5	4	3	1	1	
-	Interpret the error elements that will be reflected in the measurement results	5	5	5	3	1	1	5	3	3	1	1	
÷	Learns the methods of accessing the information required in the experiment and analysis process effectively	5	5	5	5	2	1	5	4	5	1	1	

Organizer: Assist. U.S. Seçil NİKSARLIOĞLU

Preparation Date: 20.05.2024