COURS	E DESCRIPTION FORM		
Course Code and Name	DHF2462 Microscope Types Used in Dentistry		
Semester of the Course	1		
Course Content / Catalog Content	It focuses on the materials used in dentistry and the technical characteristics of the devices used in the microscopic evaluation of the tissues in the oral cavity, their usage areas, preparation of preparations and basic evaluation methods		
Basic Textbook	Chiarini-Garcia, Hélio, Melo, Rossana Light Microscopy Methods and Protocols, Springer, 2011 Kuo, John Electron Microscopy Methods and Protocols Springer, 2014		
Auxiliary Textbooks	Suzanne Bell, Keith Morris An Introduction to Microscopy, October 21, CRC Press 2009 Terry D. Allen Ph.D. D.Sc. Introduction to Electron Microscopy for Biologists: Methods in Cell Biology: Volume 88, Academic Press, 2008		
Course Credit (ECTS)	3		
Course Prerequisites (Course attendance requirements should be specified in this article.)	Attendance is mandatory.		
Course Type	Vocational / Technical Elective Course		
Language of the Course	Turkish		
Course Objectives and Goals	This course aims to teach the materials used in dentistry and the technical features and usage areas of the devices used in microscopic evaluation of the tissues in the oral cavity, the preparation of the preparations and the basic evaluation methods.		
Learning Outcomes of the Course	<ol> <li>Understands the role of microscopic examination in dental practice</li> <li>Understands how to examine the surface properties of dental materials.</li> <li>Have information about the procedures to be done before the histopathological evaluation of intraoral lesions.</li> <li>Have information about the types of microscopes used in dental research.</li> </ol>		
Course Format	Face-to-face lecture, question-answer, demonstration		
Weekly Distribution of the Course	1. Week Fundamentals of Light and Optics 2. Week Microscope Types, Working Principles and Ergonomics 3. Week Working Principles and Parts of Light Microscope 4. Week Preparation of Preparation for Light Microscope 5. Week Preparation Methods for Tooth and Periodontal Tissues 6. Week Polarized Light Microscopy 7.Week Passing (Transmission) Electron Microscope (TEM) 8. Week Sample Fixation and Preparation for TEM 9. Week Scanning Electron Microscope 10. Week Sample Fixation and Preparation for SEM 11. Week Fluorescence Microscopy 12. Week Confocal Microscopy 13. Week Light Microscopic Evaluation of Intraoral Tissues 14.Week Leisure time activities		

<b>Teaching Activities</b> (The time spent for the activities mentioned here will determine the credit. It needs to be filled carefully.)	Theoretical hours per week 2x14=28 Weekly practical lesson hour 1x13=13 Reading Activities 1x13=13 Internet browsing, library work 1x13=13 Midterm and midterm exam preparation 2x2=4 Final exam and preparation for the final exam 2x2=4									
	Numbe		Number	Total Contribution (%)						
	Midterm 1		1	60						
	Homework		-							
	Application									
	Projects									
Evaluation Criteria	Practice									
	Quiz									
	Ratio of Periodic Studies to Success within the Year (%)									
	Final Success I		1		40					
	Attendance Sta	itus	2	100 Total				Т°	tal	
	Activity			Numbe of	er	Duration (Weekly Hours)		Total Workload at the End		
	Theoretical lesson per week			Weeks	3	2		of the Term		
	Weekly practical lesson hours			13		1		13		
					+	1				
	Reading Activities			13				13		
	Internet browsing, library work			13		1		13		
	Material design, application									
Course Workload	Report preparing									
	Preparing the presentation				_					
	Presentation									
	Midterm and midterm exam preparation			2 2				4		
	Final exam and preparation for the final exam			2	2			4		
Other				1						
	Total workload						75			
	Total workload / 25						75/25			
	ECTS Credit of the Course						3			
	No	1	am Outcomes	1	2	3	4	5		
	1	PO1				X			1	
	2	PO2				+			1	
	3	PO3							1	
	4	PO4							1	
<b>Contribution Level Between Course Outcomes</b>	5 PO5				+	1		1		
and Program Outcomes	6 PO5				+			1		
		7 PO7				+			1	
	8 PO8				+			1		
		9 PP9				+			1	
	10 PO10					+			1	
	10   PO10								<u> </u>	

	11 12 13 14	PO11 PO12 PO13 PO14		X	х		
Instructor (s) to Give the Course and Contact Information	1. Sibel Elif Gü 2. Benay Yıldır 3. Emre Barış 4. Burcu TOKÖ	ım benay@gazi.ed emrebaris@gaz	lu.tr zi.edu.tr				