Course Title	Endodontics I				
Course Code	DES255				
Course Type	Compulsory				
Level	Bachelor (1st Cycle)				
Year / Semester	2nd year / 4th semester				
Teacher's Name	TBA				
ECTS	2	Lectures / week	2 hours/ 13 weeks + exam week	Laboratories / week	None
Course Purpose and Objectives	Purpose and Objectives: This is the introductory course to the field of endodontics. The science of endodontics is divided into two basic parts, vital pulp treatment and root canal treatment. Vital pulp treatment aims at maintaining the health of the pulp tissue, while root canal treatment aims at maintaining the health of periapical tissues. In this course students become familiar with the fundamental morphology of the root canal system, the physiology of pulp and periapical tissues, the aetiology and pathogenesis of pulpal and periapical diseases, clinical and radiographic manifestations of pulpal and periapical diseases, diagnostic methodology in endodontics, strategies aiming at maintaining the health of the pulp tissue and introduction to treatment planning. The seminars of this course integrate lectures, group discussions about relevant clinical cases and problems. These seminars provide a sound basis for the preclinical and clinical training that will take place in the next academic year.				
Learning Outcomes	Upon successful completion of the course students will be able to: • Describe the morphology of the root canal system • Describe the histological changes of the structures of endodontic tissues • Discuss the physiology of pulp and periapical tissues as well as the changes, which take place in pulp and dentin during aging or as the result of harmful factors • Describe the aetiology and pathogenesis of pulpal and periapical diseases • Classify pulpal and periapical diseases				

	• Demonstrate recognition of the clinical and radiographic manifestations of pulpal and periapical diseases • Discuss diagnostic tests in endodontics, diagnostic validity, interpretation of the results. • Apply the principles of diagnostic methodology in endodontics. • Discuss the contribution of diagnostic tests in the differential diagnosis of pulp and periapical diseases • Discuss and propose different strategies for maintaining the health of the pulp tissue. • Recognise pulp capping (direct and indirect), selective carious removal, pulpotomy (partial and full) and pulpectomy. • Discuss simple relevant clinical cases and prepare a simple treatment plan		
Prerequisites	None	Co-requisites	None
Course Content	In that regard, students will familiarize themselves with the following Modules in Endodontics: • The science of Endodontics – Definitions and historical review • External root morphology • Internal root anatomy • Root canal system morphology and classifications • Structure of dentin-pulp complex and apical tissues • Function of dentin-pulp complex and apical tissues • Pathophysiology of pulp inflammation • Pulp response to caries • Pulp response to physical and iatrogenic trauma • Vital pulp treatment strategies • Pathophysiology of periapical inflammation • Clinical and radiographic correlations • Diagnostic methodology in endodontics • Differential diagnosis of pulp and periapical pathoses Basic aspects of treatment planning in endodontics		
Teaching Methodology	Lectures, Face-to-face, Team-Based Learning, Problem Based Learning, Small Group Discussions, Clinical Association Lectures		
Bibliography	Torabinejad M, Walton R. Endodontics: Principles and Practice. Philadelphia: Saunders, 2014. Bergenholtz G, Hørsted-Bindslev P, Reit C. Textbook of Endodontology. Oxford: Blackwell, 2012.		

Assessment	Final Examination	60%
	Lab Report / Oral presentations	30%
	Participation and attendance	10%
		100%
Language	English	