Course Title	Operative Dentistry IV					
Course Code	DES400	DES400				
Course Type	Compulsory					
Level	Bachelor (1s	Bachelor (1st Cycle)				
Year / Semester	4 <sup>th</sup> year / 7 <sup>th</sup>	4 <sup>th</sup> year / 7 <sup>th</sup> semester				
Teacher's Name	ТВА					
ECTS	5	Lectures / week	1 hr / 13 weeks + exam week	Clinic / week	4 hrs / 13 weeks	
Course Purpose and Objectives	This course is a continuance of the Operative Dentistry III course. It includes a lecture and clinical component. The theoretical component is designed to give to the student's knowledge on patient comprehensive examination and assessment, diagnosis, treatment planning, ethical and compassionate patient communication and patient management. The principles, terminology, instruments, materials and techniques that are taught in the pre-clinical years will be further discussed in relation to the clinical practice of Operative Dentistry. The endodontic, periodontal, radiographic and occlusal evaluation will be related to the clinical practice of Operative Dentistry for the students to develop critical thinking during clinical patient care. The principles of tooth preparations and single tooth restorations in direct restorative materials such as amalgam and composite resin, to restore pathologically damaged tooth structure due to dental caries, fracture or trauma, will be discussed from a clinical perspective. Evidence based literature relevant to contemporary Operative Dentistry will be reviewed and students will have assignments related to that information.  In the clinical component, the students will treat patients under calibrated supervision, following the principles and techniques they learned in the laboratory simulation training and the theoretical component, utilizing current techniques, instrumentation and materials. They will gain experience in providing safe and effective comprehensive treatment of patients, following operative and nonoperative, prevention-based treatment plans. All aspects of Operative Dentistry interventions will be applied on the basis of a clear understanding of the aetiology and preventive aspects of caries and caries management by risk assessment.					

	The students will be treating a diverse population of patients with different backgrounds, to be exposed to different patient approaches and emphasis will be given to the appropriate diagnosis and treatment planning, including alternative treatment plans and proper patient communication. The philosophy of Operative Dentistry treatment will be minimum invasion and focus will be given on preventive measures, appropriate home care and dental follow ups to treat aetiologically the Dental caries disease. Proper rubber dam isolation techniques will be applied to the majority of Operative Dentistry cases. Students will have to comply with infection control protocols and all safety regulations, including environmental protection measures during all clinical procedures.  This course prepares the students for performing safe and effective Operative Dentistry procedures in a more advanced level.				
Learning Outcomes	<ul> <li>Perform a thorough clinendodontic evaluation appropriate radiograph</li> <li>Demonstrate proficient history of the patient.</li> <li>Identify the chief compexpectations.</li> <li>Develop treatment plan communicate with the the treatment and the compessor of the patient.</li> <li>Appropriately manipulates to rative materials single.</li> </ul>	ion of this course students should be able to: inical examination including periodontal and as related to Operative Dentistry, prescribe hs and interpret all diagnostic data gathered. cy in patient medical history and dental plaint, other Dental needs and treatment hs, alternative treatment plans and patient. Provide the expected prognosis of consequences of no treatment. ate and place, in patient tooth cavities, such as amalgam, composite resin and glass rder to properly restore anatomical form, s.			
Prerequisites	None	Co-requisites	None		
Course Content	<ul> <li>Reviewing Medical history, Dental history and identifying patient chief complaint through proper communication.</li> <li>New and recall patient clinical examination and assessment.</li> <li>Selection of appropriate radiographs for Operative Dentistry diagnosis. Data gathering and interpretation.</li> <li>Risk management and risk assessment in Operative Dentistry.</li> <li>Establishing diagnosis, including differential diagnosis and developing treatment plans and alternative treatment plans.</li> </ul>				

Teaching Methodology	<ul> <li>Establish and maintain patient records. Documentation and charting.</li> <li>Self-assessment of clinical performance and evaluation of restorations.</li> <li>Treating recall patients, patient education and motivation on appropriate home care related to Operative Dentistry.</li> </ul> Face-to-face			
Bibliography	Ritter AV, Boushell LW, Walter R. Sturdevant's Art and Science of Operative Dentistry. St. Louis: Elsevier, 2018.  Sakaguchi RL, Ferracane JL, Powers JM. Craig's Restorative Dental Materials. St. Louis: Elsevier, 2018.  Hilton TJ, Ferracane JL, Broome J. Summitt's Fundamentals of Operative Dentistry: A Contemporary Approach. Hanover Park, Illinois: Quintessence Publishing, 2013.			
Assessment	Final Examination Laboratory / Clinical Work / Oral presentations Participation and attendance Total	60% 30% 10% 100%		
Language	English			