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|-------------------------------|---|-----------------|-----------------------------|---------------|------------------|
| Course Title                  | Operative Dentistry VI  |                 |                             |               |                  |
| Course Code                   | DES500  |                 |                             |               |                  |
| Course Type                   | Compulsory  |                 |                             |               |                  |
| Level                         | Bachelor (1 <sup>st</sup> Cycle)  |                 |                             |               |                  |
| Year / Semester               | 5 <sup>th</sup> year / 9 <sup>th</sup> semester   |                 |                             |               |                  |
| Teacher's Name                | TBA   |                 |                             |               |                  |
| ECTS                          | 5   | Lectures / week | 1 hr / 13 weeks + exam week | Clinic / week | 4 hrs / 13 weeks |
| Course Purpose and Objectives | <p>This course is a continuance of the Operative Dentistry V course. It includes a lecture and clinical component. The theoretical component is designed to give to the students 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 and the first clinical year will be further discussed in a more advanced level. 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. Evidence based literature relevant to contemporary Operative Dentistry will be reviewed and students will have assignments related to that information.</p> <p>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 work in a more advanced level from the previous clinical semesters and they will build experience in providing safe and effective comprehensive treatment of patients, following operative and non-operative, 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.</p> <p>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</p> |                 |                             |               |                  |

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|                      | <p>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.</p>  |               |      |
| Learning Outcomes    | <p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> <li>• Successfully manage dental emergencies.</li> <li>• Manage clinically teeth with extensive loss of tooth structure.</li> <li>• Describe multidisciplinary approach to patient treatment.</li> <li>• Participate in the dental health care team.</li> <li>• Restore endodontically treated teeth.</li> <li>• Appropriately manipulate and place, in patient tooth cavities, restorative materials such as amalgam, composite resin and glass ionomer cements in order to properly restore anatomical form, function and esthetics.</li> </ul> |               |      |
| Prerequisites        | None  | Co-requisites | None |
| Course Content       | <ul style="list-style-type: none"> <li>• Critical thinking and problem-solving skills in the comprehensive care of patients.</li> <li>• Clinical approach to Operative Dentistry in cooperation with the different dental specialties and disciplines in complex, multidisciplinary cases.</li> </ul>   |               |      |
| Teaching Methodology | Face-to-face  |               |      |
| Bibliography         | <p>Ritter AV, Boushell LW, Walter R. Sturdevant's Art and Science of Operative Dentistry. St. Louis: Elsevier, 2018.</p> <p>Sakaguchi RL, Ferracane JL, Powers JM. Craig's Restorative Dental Materials. St. Louis: Elsevier, 2018.</p> <p>Hilton TJ, Ferracane JL, Broome J. Summitt's Fundamentals of Operative Dentistry: A Contemporary Approach. Hanover Park, Illinois: Quintessence Publishing, 2013.</p>  |               |      |

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| Assessment                                      | <table border="1"> <tr> <td data-bbox="443 232 1023 271">Final Examination</td> <td data-bbox="1023 232 1195 271">60%</td> </tr> <tr> <td data-bbox="443 271 1023 349">Laboratory / Clinical Work / Oral presentations</td> <td data-bbox="1023 271 1195 349">30%</td> </tr> <tr> <td data-bbox="443 349 1023 387">Participation and attendance</td> <td data-bbox="1023 349 1195 387">10%</td> </tr> <tr> <td data-bbox="443 387 1023 425">Total</td> <td data-bbox="1023 387 1195 425">100%</td> </tr> </table> | Final Examination | 60% | Laboratory / Clinical Work / Oral presentations | 30% | Participation and attendance | 10% | Total | 100% |
| Final Examination                               | 60%   |                   |     |   |     |                              |     |       |      |
| Laboratory / Clinical Work / Oral presentations | 30%   |                   |     |   |     |                              |     |       |      |
| Participation and attendance                    | 10%   |                   |     |   |     |                              |     |       |      |
| Total   | 100%  |                   |     |   |     |                              |     |       |      |
| Language  | English   |                   |     |   |     |                              |     |       |      |