

| COURSE DESCRIPTION FORM | |
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| Course Code and Name | DHF310 Restorative Dental Treatment |
| Course Semester | 5-6 |
| Catalogue Data of the Course (<i>Course Content</i>) | General concepts in restorative dental treatment, preventive dentistry approaches, rules of operative dentistry, caries removal methods and materials used are explained and demonstrated theoretically and practically. |
| Course Textbooks | Sturdevant's Art and Science of Operative Dentistry, Theodore M. Roberson, Harald O. Hayman, Edward J. Swift. Mosby Inc, 2006 |
| Supplementary Textbooks | Textbook of Operative Dentistry, Baum L., Phillips RW., Lund MR., WB Saunders Company, 1995. |
| Credit (ECTS) | 6 |
| Prerequisites for the Course (<i>Attendance Requirements</i>) | Attendance is mandatory. (DHF210 or DHF 2260 or DHF222) |
| Course Type | Formal education |
| Language of Instruction | Turkish |
| Course Objectives | To teach the general concepts of Restorative Dentistry, caries removal and treatment methods of caries-free dental hard tissue lesions, theoretically and practically. |
| Course Learning Outcomes | <ol style="list-style-type: none"> 1. Has sufficient knowledge about restorative materials and their applications 2. Recognizes dental caries, knows diagnosis and treatment methods, knows caries remineralization. 3. Can determine the risk of dental caries, knows preventive methods. 4. Knows the etiology of dentin hypersensitivity and can apply its treatment. 5. Has sufficient knowledge about pulp capping 6. Can diagnose and treat caries-free tooth hard tissue loss. |
| Instruction Method (<i>Face-to-face, Distance education etc.</i>) | Face to face |

Weekly Schedule of the Course

Week 1: Preparation before restorative procedures. Presentation of the simulation unit and rubber-dam application.

Week 2: Composite restorations. Class I (occlusal) cavity (1 piece) preparation on premolar, upper and lower molars.

Week 3: Composite restorations. Class I (occlusal) cavity (1 piece) preparation on premolar, upper and lower molars.

Week 4: Adhesive systems. Class II (MO and OD) cavity (1 piece) preparation on premolar, upper and lower molars.

Week 5: Adhesive systems. Class II (MO and OD) cavity (1 piece) preparation on premolar, upper and lower molars.

Week 6: Glass ionomer restorations Adhesive systems. Class II (MOD) cavity (1 piece) preparation on premolar, upper and lower molars.

Week 7: Compomer restorations Modified cavity preparations on premolar, upper and lower molars.

Week 8: Clinical properties of dental caries, diagnosis, diagnostic methods and treatment planning. Class III (1 piece) cavity preparation on upper and lower incisors and canins.

Week 9: Clinical properties of dental caries, diagnosis, diagnostic methods and treatment planning. Class III (1 piece) cavity preparation on upper and lower incisors and canins.

Week 10: Determination of dental caries risk, determination and evaluation of DMFT, DMFS indexes. Cavity studies compensation decision.

Week 11: Determination of dental caries risk, determination and evaluation of DMFT, DMFS indexes. Cavity studies compensation decision.

Week 12: Pathology of dental caries (enamel, dentin and cementum caries) and its prognosis. Basement material application on Class I, II and MOD cavities.

Week 13: Pathology of dental caries (enamel, dentin and cementum caries) and its prognosis. Basement material application on Class I, II and MOD cavities.

Week 14: Caries protection protocol on adults. Permanent restoration application and polishing on Class I, II and MOD cavities.

Week 15: Caries protection protocol on adults. Permanent restoration application and polishing on Class I, II and MOD cavities.

Week 16: Remineralization of dental caries. Basement material application on Class III, IV and V cavities.

Week 17: Vital pulp treatment. Direct pulp capping, indirect pulp capping. Permanent restoration application and polishing on Class III, IV and V cavities.

Week 18: Vital pulp treatment. Direct pulp capping, indirect pulp capping. Permanent restoration application and polishing on Class III, IV and V cavities.

Week 19: Abrasion, erosion, attrition, abfraction. Reapplication of basement material and permanent filling.

Week 20: Abrasion, erosion, attrition, abfraction. Reapplication of basement material and permanent filling.

Week 21: Dentin hypersensitivity. Pin application on extracted teeth (anterior and posterior), light cured composite resin application and cavity studies (Black I-1piece).

Week 22: Dentin hypersensitivity. Pin application on extracted teeth (anterior and posterior), light cured composite resin application and cavity studies (Black I-1piece).

Week 23: Biological approach on cavity preparation and restoration. Rubber-dam application, prophylaxis (1 piece), Anamnesis (2 pieces)

Week 24: Biological approach on cavity preparation and restoration. Rubber-dam application, prophylaxis (1 piece), Anamnesis (2 pieces)

Week 25: Biological approach on cavity preparation and restoration. Rubber-dam application on clinic (1 piece), Polishing (2 pieces), cement mixing.

Week 26: Biological approach on cavity preparation and restoration. Rubber-dam application on clinic (1 piece), Polishing (2 pieces), cement mixing.

Week 27: Biological approach on cavity preparation and restoration. Helping composite resin restoration, Helping amalgam restoration.

Week 28: Biological approach on cavity preparation and restoration. Helping composite resin restoration, Helping amalgam restoration.

| <p>Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)</p> | <p>Weekly theoretical course hours : 1 Weekly practical course hours : 4 Reading activities Internet search and library work Designing and implementing materials : 2 Making a report Preparing and making presentations Midterm and revision for midterm : 9 Final exam and revision for final exam : 1</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------------|--------------------------------|---|----------|-----------------|------------------------|--------------------------------|---------------------------------|----|------------|----|-------------------------------|-------------|--|----|--------------------|--|--|----------|----------------------------------|---|------|--|--------------------------------------|------------|---|----|--|--|-----|--|------------------------------------|--|--|--|----------------------------------|----|---|----|--|----|---|----|----------------|--|--|-----|--------------------|--|--|------|----------------------|--|--|---|
| <p>Assessment Criteria</p> | <table border="1" data-bbox="505 490 1302 779"> <thead> <tr> <th></th> <th>Sayısı</th> <th>Katkısı (%)</th> </tr> </thead> <tbody> <tr> <td>Midterm exam</td> <td>2</td> <td>36</td> </tr> <tr> <td>Assignment</td> <td>1</td> <td>18</td> </tr> <tr> <td>Application</td> <td></td> <td></td> </tr> <tr> <td>Project</td> <td></td> <td></td> </tr> <tr> <td>Practice</td> <td>1</td> <td>6</td> </tr> <tr> <td>Quiz</td> <td></td> <td></td> </tr> <tr> <td>Final exam</td> <td>1</td> <td>40</td> </tr> <tr> <td>Total</td> <td></td> <td>100</td> </tr> </tbody> </table> | | | | | Sayısı | Katkısı (%) | Midterm exam | 2 | 36 | Assignment | 1 | 18 | Application | | | Project | | | Practice | 1 | 6 | Quiz | | | Final exam | 1 | 40 | Total | | 100 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sayısı | Katkısı (%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Midterm exam | 2 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Assignment | 1 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Application | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Practice | 1 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quiz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Final exam | 1 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Workload of the Course</p> | <table border="1" data-bbox="505 920 1445 1487"> <thead> <tr> <th>Activity</th> <th>Number of Weeks</th> <th>Duration (Weekly Hour)</th> <th>End of Semester Total Workload</th> </tr> </thead> <tbody> <tr> <td>Weekly theoretical course hours</td> <td>28</td> <td>1</td> <td>28</td> </tr> <tr> <td>Weekly practical course hours</td> <td>14</td> <td>4</td> <td>56</td> </tr> <tr> <td>Reading activities</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Internet search and library work</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Designing and implementing materials</td> <td>1</td> <td>9</td> <td>9</td> </tr> <tr> <td>Making a report</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Preparing and making presentations</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Midterm and revision for midterm</td> <td>28</td> <td>1</td> <td>28</td> </tr> <tr> <td>Final exam and revision for final exam</td> <td>28</td> <td>1</td> <td>28</td> </tr> <tr> <td>Total workload</td> <td></td> <td></td> <td>149</td> </tr> <tr> <td>Total workload/ 25</td> <td></td> <td></td> <td>5.96</td> </tr> <tr> <td>Course Credit (ECTS)</td> <td></td> <td></td> <td>6</td> </tr> </tbody> </table> | | | | Activity | Number of Weeks | Duration (Weekly Hour) | End of Semester Total Workload | Weekly theoretical course hours | 28 | 1 | 28 | Weekly practical course hours | 14 | 4 | 56 | Reading activities | | | | Internet search and library work | | | | Designing and implementing materials | 1 | 9 | 9 | Making a report | | | | Preparing and making presentations | | | | Midterm and revision for midterm | 28 | 1 | 28 | Final exam and revision for final exam | 28 | 1 | 28 | Total workload | | | 149 | Total workload/ 25 | | | 5.96 | Course Credit (ECTS) | | | 6 |
| Activity | Number of Weeks | Duration (Weekly Hour) | End of Semester Total Workload | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weekly theoretical course hours | 28 | 1 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weekly practical course hours | 14 | 4 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reading activities | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Internet search and library work | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Designing and implementing materials | 1 | 9 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Making a report | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preparing and making presentations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Midterm and revision for midterm | 28 | 1 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Final exam and revision for final exam | 28 | 1 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total workload | | | 149 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total workload/ 25 | | | 5.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Credit (ECTS) | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Contribution Level between Course Outcomes and Program Outcomes</p> | <table border="1" data-bbox="505 1632 1445 2063"> <thead> <tr> <th>No</th> <th>Programme outcoms</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>The normal structure and functions of the human body and specifically the structures of the mouth and the teeth on the basis of cells, tissues, organs and systems, know the interactions.</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>2</td> <td>Causes and formation of oral, dental and jaw diseases mechanisms, the findings caused by the structure and dysfunction and organism affect.</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>3</td> <td>In the national core training program of dentistry and Gazi University Faculty of Dentistry Signs and symptoms in the Extended Education Program findings,</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table> | | | | | | No | Programme outcoms | 1 | 2 | 3 | 4 | 5 | 1 | The normal structure and functions of the human body and specifically the structures of the mouth and the teeth on the basis of cells, tissues, organs and systems, know the interactions. | | | | | X | 2 | Causes and formation of oral, dental and jaw diseases mechanisms, the findings caused by the structure and dysfunction and organism affect. | | | | | X | 3 | In the national core training program of dentistry and Gazi University Faculty of Dentistry Signs and symptoms in the Extended Education Program findings, | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| No | Programme outcoms | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | The normal structure and functions of the human body and specifically the structures of the mouth and the teeth on the basis of cells, tissues, organs and systems, know the interactions. | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Causes and formation of oral, dental and jaw diseases mechanisms, the findings caused by the structure and dysfunction and organism affect. | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | In the national core training program of dentistry and Gazi University Faculty of Dentistry Signs and symptoms in the Extended Education Program findings, | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | diseases and conditions and occupational know the applications at a specified level, understand, associates and evaluates | | | | | |
| 4 | In line with personal learning needs to reach the best scientific evidence available, knows to evaluate reliability and validity. | | | X | | |
| 5 | Legislation on professional legal responsibilities, know deontology and ethical principles. | | X | | | |
| 6 | In the national core training program of dentistry and Gazi University Faculty of Dentistry Professional in the Extended Education Program know and do applications at a specified level. | | | X | | |
| 7 | Evidence based application of diagnosis, management and follow-up process with critical thoughts and ethical principles. | | X | | | |
| 8 | Is aware of the limitations, professional development puts personal learning goals in a way to support to the appropriate center if necessary directs | | | X | | |
| 9 | Diseases of the mouth, teeth and jaws in society knows the incidence, prevention and reduction contributes. | | | | X | |
| 10 | Independently practicing on its own duties and responsibilities related to the law, regulation, acts in accordance with the legislation and ethical principles. | | X | | | |
| 11 | Has teamwork and leadership skills, become role models to colleagues and society | | | X | | |
| 12 | Plans personal professional development, lifelong performs with the principle of learning. | | | X | | |
| 13 | Patients, patient relatives, other health personnel, community, effective written and oral communication with relevant sectors and media communicates. | | | X | | |
| 14 | Foreign language and information communication technologies monitors innovations in the profession. | | | X | | |
| Lecturer(s) and Contact Information | 1. Prof. Dr. Oya BALA - oyabala@gazi.edu.tr 2. Prof. Dr. Mine Betül ÜÇTAŞLI - uctasli@gazi.edu.tr 3. Prof. Dr. Hacer DENİZ ARISU - hacer@gazi.edu.tr 4. Assoc. Prof. Dr. Suat ÖZCAN - suatozcan@gazi.edu.tr 5. Assist. Prof. Dr. Cemile KEDİCİ ALP - cemilealp@gazi.edu.tr 6. Assist. Prof. Dr. Sinem AKGÜL - sinemakgul@gazi.edu.tr 7. Assist. Prof. Dr. Hanife ALTINIŞIK - hanifekamak@gazi.edu.tr | | | | | |