

**King Saud University**

**College of Dentistry**

**Department of Prosthetic Dental Sciences**

**Dr. Ibraheem Alshiddi**

Course Director - DUC

**Dr. Rashed Habib**

Course Co-Director - DUC

**ACADEMIC YEAR**

**1434 /1435H (2013/2014G)**

**COURSE TITLE** : **Preclinical Removable Prosthodontics**

**COURSE CODE** : **SDS 323**

**CREDIT HOURS** : 4 (2L+2P)

**PREREQUISITES** : SDS 212

**COURSE DESCRIPTION:**

This is the first course offered in Removable Prosthodontics. It consists of the didactic and practical components concerned with the procedures involved in the construction of both complete and removable partial dentures. The complete denture course is taught in the first semester where the student learns the basic technical aspect of complete denture construction. In the second semester, the course acquaints the students with the principles and sequence of technical procedures involved in the fabrication of removable partial dentures.

During the course, various exercises that simulate the clinical treatment of the patient are also employed. The course in general is designed to prepare the student to understand the biological, mechanical as well as the esthetic aspect of complete denture and partial denture treatment.

**COURSE OBJECTIVES:**

1. The primary goal of this course is to familiarize the student with the biological and technical aspects of complete and removable partial dentures and their integration with the clinical procedures which will be taught in the succeeding clinical prosthodontic courses.
2. The student should demonstrate the abilities and skills to perform all the laboratory procedures related to the construction of complete dentures.
3. The student should be able to identify and describe the various components of a removable partial denture.
4. The student should be able to illustrate the basic knowledge of how to design a removable partial denture framework.
5. The student should demonstrate the basic knowledge and fundamentals of the various laboratory procedures related to the construction of the removable partial denture.
6. The student should be able to identify the different materials, instruments and devices involved in the construction of complete dentures and removable partial dentures as well as their uses.

**INSTRUCTIONAL METHODS:**

* Didactic Lectures
* Demonstration Sessions
* Hands on Practical Sessions

**EVALUATION AND ASSESSMENT:**

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| **Didactic component: (3 continuous)** |  |  | **30%** |
| 1. 1st continuous assessment/written examination |  | 10% |  |
| 1. 2nd continuous assessment/written examination |  | 10% |  |
| 1. 3rd continuous assessment/written examination |  | 10% |  |
| **Laboratory component: (5 practical)** |  |  | **25%** |
| * Weekly practical assessment |  | 6% |  |
| * 1st practical assessment |  | 6% |  |
| * 2nd practical assessment |  | 7% |  |
| * 3rd practical assessment |  | 6% |  |
| **Final Examination** |  |  | **40%** |
| * Didactic |  | 30% |  |
| * Practical |  | 10% |  |
| **Overall Course Director Evaluation** |  |  | **5%** |
| * Personal behavior of the student |  | 5% |  |
| **Total Grade** |  |  | **100%** |

**COURSE PROTOCOL:**

1. Due to the amount of work to be accomplished and the importance of the practical sessions on this course, student attendance is mandatory. If an absence is completely unavoidable you must report the reason in to the Course Director upon return to class.
2. 75% attendance is mandatory for lectures and practical sessions. If a student’s absence reaches 25%, it will prevent him from performing the final didactic and laboratory examinations.
3. On time attendance is mandatory for this course. As a matter of courtesy to the lecturer and to get maximum benefit from the lecture, you must be in your seat no later than 8:00 am on the class days. You must also be on time in attendance for all laboratory sessions.
4. All students must achieve a passing grade (60% minimum) for each component of the course to receive a pass mark in this course (i.e.):
   * 60% Removable Prosthodontics didactic portion
   * 60% Removable Prosthodontics laboratory portion
5. Laboratory Projects: All laboratory projects must be completed on time with a “pass” grade in order for a student to move on to the next project, take a practical examination, or pass the course.
6. Personal behavior of the student which includes:

* Communication and cooperation with faculty, staff and other students
* promptness in departing "on time" at the end of each session
* proper wearing of uniform and laboratory apron
* Careful handling of materials, equipments, electrical and non-electrical devices.

**REQUIRED TEXTBOOKS:**

1. Hassaballa, M.H. and Talic, Y.F. Principles of Complete Denture Prosthodontics. 1st Edition. King Saud University-Academic Publishing and Press 2004.
2. Textbook of Complete Dentures. Rahn AO, Heartwell CM, 5th edition, 1992.
3. Dental Laboratory Procedures, Vol. 1 (Complete Dentures), Rudd and Morrow, 2nd Edition, 1986, The C.V. Mosby Co., St. Loius.
4. McCracken’s Removable Prosthodontics, 10th Edition 2000 by McGivney GP, Carr AB. The C.V. Mosby Co., St. Loius.
5. Phoenix, Rodney D.; Cagna, David R.; and DeFreest, Charles F., Stewart’s Clinical Removable Partial Prosthodontics, 3rd ed.
6. Dental Laboratory Procedures (Removable Partial Dentures) Morrow, Rudd, Eissman, Vol. III 2nd Edition, 1986. The C.V. Mosby Co., St. Loius.

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| **SCHEDULE OF LECTURES AND PATIENT SIMULATION CLINICS** |
| **SEMESTER I** |

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| **No.** | **Date** | **Session** | **Topic** | **Lecturer** |
| 1 | 5/9/2013 | Lecture | * Introduction to prosthodontics * Principles of complete denture prosthodontics | Dr. Alshiddi |
| Practical | * Assignment of instructors & issuance of instruments * Introduction to clinical and laboratory steps for fabricating complete denture. |  |
| 2 | 12/9/2013 | Lecture | * Custom impression trays and construction of master casts | Dr. Alshiddi |
| Practical | * Construction of maxillary custom tray with wax spacer & stops |  |
| 3 | 19/09/2013 | Lecture | * Record Blocks | Dr. Alshiddi |
| Practical | * Preparation of upper & lower base plates |  |
| 4 | 26/09/2013 | Lecture | * Jaw relations terminology for the edentulous patients | Dr. Alshiddi |
| Practical | * Fabrication of maxillary & mandibular occlusion rims |  |
| 5 | 3/10/2013 | Lecture | * Introduction to articulators | Dr. R. Habib |
| Practical | * Fabrication of maxillary & mandibular occlusion rims |  |

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| **Eid Al-Dhha Break** |

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| 6 | 24/10/2013 | Lecture | * Mounting the casts on Hanau articulator | Dr. R. Habib |
| Practical | * Mounting of maxillary & mandibular cast on Hanau articulator |  |
| 7 | 31/10/2013 | Lecture | * **1st Mid-term Exam** | Dr. Alshiddi Dr. R. Habib |
| Practical | * **First Practical Assessment** (Construction of maxillar & mandibular occlusion rims) |  |
| 8 | 7/11/2013 | Lecture | * Arrangement of anterior teeth | Dr. R. Habib |
| Practical | * Arrangement of maxillary and mandibular **anterior teeth** & setting of incisal guidance |  |
| 9 | 14/11/2013 | Lecture | * Arrangement of posterior teeth | Dr. R. Habib |
| Practical | * Arrangement of maxillary and mandibular **anterior teeth** & setting of incisal guidance |  |
| 10 | 21/11/2013 | Lecture | * Complete denture wax-up and flasking procedure | Dr. Vohra |
| Practical | * Arrangement of maxillary & mandibular **posterior teeth** |  |
| 11 | 28/11/2013 | Lecture | * Deflasking of dentures | Dr. Hassaballa |
| Practical | * Arrangement of maxillary & mandibular **posterior teeth** |  |
| 12 | 5/12/2013 | Lecture | * Principles of selective grinding, finishing, and polishing of the dentures | Dr. Hassaballa |
| Practical | * **Completion of arrangement** of maxillary & mandibular teeth |  |
| 13 | 12/12/2013 | Lecture | * Denture repairs | Dr. Hassaballa |
| Practical | * **Submission** of maxillary & mandibular teeth set-up for grading |  |
| 14 | 19/12/2013 | Lecture | * Clinical & laboratory techniques in relining and rebasing | Dr. Hassaballa |
| Practical | * Adjustment record blocks & mounting maxillary & mandibular casts for the 2nd practical assessment |  |
| 15 | 26/12/2013 | Lecture | * **2nd Mid-term Exam** | Dr. Hassaballa Dr. R. Habib |
| Practical | * Mounting maxillary & mandibular casts for the 2nd practical assessment |  |

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| **SEMESTER II** | | | | |

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| 16 | 30/01/2014 | Lecture | * Types of removable partial dentures & parts of a removable partial denture and their functions | Dr. Alshiddi |
| Practical | * Introduction to clinical and laboratory steps for fabricating removable partial denture. |  |
| 17 | 6/2/2014 | Lecture | * Classification of partially edentulous arches | Dr. M. Al Rifaiy |
| Practical | * **Second Practical Assessment** (Arrangement of teeth for complete dentures) |  |
| 18 | 13/02/2014 | Lecture | * Surveying of partially edentulous arches | Dr. M. Al Rifaiy |
| Practical | * Surveying of a cast |  |
| 19 | 20/02/2014 | Lecture | * Abutment teeth (posterior) preparation | Dr. R. Habib |
| Practical | * Preparation of rest seats on posterior plaster teeth |  |
| 20 | 27/02/2014 | Lecture | * Abutment teeth (anterior) preparation | Dr. R. Habib |
| Practical | * Preparation of rest seats on anterior plaster teeth |  |
| 21 | 6/3/2014 | Lecture | * Direct retainers (intra- and extra- coronal) | Prof. Fahmi |
| Practical | * Surveying ivorine jaw model, preparation of guide planes on ivorine teeth**,** and recontouring of clasps |  |
| 22 | 13/03/2014 | Lecture | * Direct retainers (infrabulge) | Prof. Fahmi |
| Practical | * Preparation of occlusal rest seats on molar and premolar teeth, embrasure rest seats and long occlusal rest seats |  |
| 23 | 20/03/2014 | Lecture | * Indirect retainers | Prof. Fahmi |
| Practical | * Preparation of anterior rest seats on ivorine teeth and polishing of teeth |  |

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| **Mid 2nd Semester Break** | | | | |
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| 24 | 3/4/2014 | Lecture | * Major connectors I | Prof. Fahmi |
| Practical | * Complete preparation of posterior and anterior rest seats on ivorine teeth * Polishing of teeth |  |
| 25 | 10/4/2014 | Lecture | * Major connectors II | Prof. Fahmi |
| Practical | * **3rd Practical Assessment** (Abutment teeth preparation). |  |
| 26 | 17/04/2014 | Lecture | * Designing of removable partial denture and lab prescription or work authorization | Dr. Vohra |
| Practical | * **Demonstration:** Surveying, designing, and prescription writing of cast #1 * **Exercise:** Surveying, designing and prescription writing of cast #2. |  |
| 27 | 24/04/2014 | Lecture | * **3rd Mid-term Exam** | Dr. Alshiddi Prof. Fahmi |
| Practical | * Surveying, designing and prescription writing of cast #3 & #4. |  |
| 28 | 1/5/2014 | Lecture | * Laboratory procedures of making a conventional removable partial denture | Dr. Vohra |
| Practical | * Submission and discussion of designing and prescription writing of surveyed cases #5 & # 6 |  |
| 29 | 8/5/2014 | Lecture | * Denture base and teeth for removable partial dentures | Dr. Vohra |
| Practical | * Preparation of mounted maxillary and mandibular casts for final practical examination (arrangement of teeth for complete dentures) |  |
| 30 | 15/05/2014 | Lecture | * Provisional partial dentures | Dr. Alshiddi |
| Practical | * Preparation of mounted maxillary and mandibular casts for final practical examination (arrangement of teeth for complete dentures) |  |