**Section 2: COURSE SPECIFICATION**

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**Semester Courses:**

It is a clinical course in removable partial and complete denture prosthodontics, offered in the second semester of fourth year.

**Course Description:**

This is a one semester clinical course during the 4th year. It consists of didactic and clinical components. It consists of didactic component and clinical training (two sessions per week). The didactic component covers the theoretical background for different phases of treatment for a removable denture. The clinical course includes a detailed step-by-step description of the clinical procedures performed at each patient’s appointment. Different philosophies and rationales concerning patient’s examination, impression making, occlusion and jaw relation will be discussed. A special interest will be given to denture insertion, post-insertion follow up and maintenance

The course has three Credit Hours;

• Didactic; two Credit hours (2 hours lecture, weekly for one semester) and

• Clinical; three Credit hours (6 hours of clinical work, weekly for one semester).

**Course Information**:

Course Title: **Clinical Removable Prosthodontics- II**

Course Number: **(SDEN 562)**

Department: Substitutive Dental Sciences

Credit Hours: 03

Year: 05

Duration: One Semester

Semester: First

Pre-requisites: Clinical Removable Prosthodontics - I (SDEN 432)

Co-requisites: None

**Aims of the Course:**

1. The primary goal of the course is to allow students to examine, diagnose, and manage partially and completely edentulous patients with removable dentures with confidence.
2. The student should understand the clinical steps followed for the fabrication of removable dentures.
3. The student should demonstrate the abilities and skills to do all the laboratory procedures related to the construction of removable dentures.
4. The student should be able to identify the different materials, instruments and devices involved in the construction of removable dentures as well as their uses.
5. The student should be able to perform the different techniques required for the fabrication of a removable denture.

**Section 3: COURSE SCHEDULE**

**Didactic Component**

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| **Lecture No.** | **Week** | **Date** | **Topic** | **Lecturer** |
| **1.** | **1st** | **3/9/2014**  **(Wednesday)** | **Introduction to the course** | **Prof. Saber** |
| **2.** | **2nd** | **10/9/2014**  **(Wednesday)** | **Retention & Stability of complete dentures** | **Dr. Ali** |
| **3.** | **3rd** | **17/9/2014**  **(Wednesday)** | **Management of flat ridge** | **Dr. Zahid** |
| **4.** | **4th** | **24/9/2014**  **(Wednesday)** | **Management of difficult complete denture cases** | **Dr. Zahid** |
| **5.** | **5th** | **15/10/2014**  **(Wednesday)** | **Relining & rebasing of complete dentures** | **Dr. Gad** |
| **6.** | **6th** | **22/10/2014**  **(Wednesday)** | **Occlusion in complete denture - I** | **Dr. Fahd** |
|  | **6th** | **23/10/2014**  **(Thursday)** | **Quiz-1.** **23/10/2014** |  |
| **7.** | **7th** | **29/10/2014**  **(Wednesday)** | **Occlusion in complete denture - II** | **Dr. Fahd** |
| **8.** | **8th** | **5/11/2014**  **(Wednesday)** | **Other forms of RPDs** | **Dr. Khalid** |
| **9.** | **9th** | **12/11/2014**  **(Wednesday)** | **RPD special impression techniques** | **Dr. Shaimaa** |
| **10.** | **10th** | **19/11/2014**  **(Wednesday)** | **Tissue damage caused by RPD** | **Dr. Imran** |
|  | **11th** | **23/11/2014**  **(Sunday)** | **Quiz-2 23/11/2014- 4/12/2014** |  |
| **11.** | **11th** | **26/11/2014**  **(Wednesday)** | **Precision attachments** | **Dr. Khalid** |
| **12.** | **12th** | **3/12/2014**  **(Wednesday)** | **Surveyed crown** | **Prof. Saber** |
| **13.** | **13th** | **10/12/2014**  **(Wednesday)** | **Repairs and additions to RPD** | **Dr. Gad** |
| **14.** | **14th** | **17/12/2014**  **(Wednesday)** | **TMJ dysfunction syndrome.** | **Dr. Zahid** |
| **15.** | **15th** | **24/12/2014**  **(Wednesday)** | **Revision** | **Prof. Saber** |
|  | **16th** | **28/12/2014 (Sunday)** | **Final Exams 28/12/2014 -12/1/2015** | |

**Lectures Outline**

1. **Introduction to the course:**

A comprehensive presentation of the course outline will be introduced to

the students

**2. Retention & Stability of complete denture**

- Factors affecting retention

- Aids of retention

- Factors affecting stability

**3. Management of flat ridge:**

* + factors affecting atrophy of alveolar ridge
  + Treatment :

Prosthetic treatment.

Surgical treatment:

- Vestibuloplasty

- Ridge augmentation

- Ridge distraction

- Implants

**4. Management of difficult complete denture cases**

**-** Flabby ridge.

- Flat palate with shallow sulci

**-** Undercut ridges.

**-** Knife-like lower ridge.

**-** Large tuberosities.

- Tight lower lip

**-** Large tongue.

**-** Abnormal jaw relationships.

**-** Retching and nausea in denture wearers.

**5. Relining & rebasing complete denture:**

Objectives & indications & Contraindications

Clinical procedures:

- Tissue preparation & denture preparation

- Impression procedure (static & functional impressions)

Laboratory procedures:

- Relining:

- Flask method.

- Articulator or Hooper duplicator method.

- Chair side relines.

- Rebasing

**6 &7. Occlusion in complete denture:**

- Differences between natural and artificial occlusion

- Fundamentals of artificial occlusion.

- Requirements of complete denture occlusion

- Occlusal concepts of complete dentures

Balanced occlusion

Advantages of balanced occlusion

Factors affecting balanced occlusion - Hanau quint

Problems with anatomic & non-anatomic tooth forms

Occlusal designs for balanced occlusion

Non-balanced occlusion

Advantages and disadvantages of various occlusal schemes

1. **RPD special impression techniques**

Factors affecting support of the distal-extension base

Indications for a functional impression

Impression methods

Impression materials for functional impression

**9. Other forms of RPD**:

**-** Guide plane RPD

**-** Swing-lock RPD

**-** Removable partial overdenture

**-** Attachment-design RPD (fixed removable restoration)

**-** Temporary RPD:

Interim RPD

Transitional RPD

Treatment RPD

**10. Tissue damage caused by RPD:**

Damage to the gingival margins.

Damage to the mucoperiosteum.

Damage to the teeth.

Damage to the bone of the edentulous ridge.

Means of avoiding damage by RPD

- periodontal considerations in clasp design

- periodontal considerations in major& minor connectors design

**11. Precision attachments**

- Indications & contraindications

- Advantages & disadvantages

- Classifications & types

- Attachment selection

**jh12. Surveyed crown:**

- Contouring wax-patterns

- Placing internal attachments & rests

- Surveying ceramic veneer crowns

Milling of surveyed crowns

- Ledges on abutment crowns

1. **Repairs and additions to RPD**

– Broken clasp arms.

– Broken occlusal rests.

– Distortion or breakage of connectors.

– Loss of additional tooth or teeth not involved in retention of RPD

– Loss of abutment necessitating tooth & clasp additions

– Broken or lost denture tooth & broken resin base

**Procedures for making repairs & additions**

– Replacing a broken clasp arm with a wrought wire retentive arm

– Repair by soldering.

**14. Introduction to TMJ dysfunction syndrome:**

- Definitions

- Signs and symptoms

- Etiological theories

- Clinical presentation & diagnostic features

- Treatment approaches

Prosthetic implications

**Course Learning Outcomes (5 Domains)**

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| **Learning Outcomes** | | | | |  | |  |  |  |  | |
| **Domain 1: Knowledge** | | | | | | | | | | |
| **Skills to be developed** | **By the end this course the students will be able to**   * Describe the fabrication procedures of different removable prosthetic appliances. * Identify the clinical steps of different types in removable prosthodontics. * Differentiate between different materials used in various types of impressions. * Give reasons for the need of the treatment for patients with removable prosthetic appliances.. * Evaluate his own performance. * Students are supposed to apply the theoretical knowledge through examining, diagnosing and treating patients who need removable prosthodontic treatment. Students are supposed to treat patients with partial and complete edentulism with special needs. Students should follow the clinical policies and procedures as directed by the director of the dental clinics. | | | | | | | | | |
| **Teaching Strategies** | * Lectures * Topic Seminars | | | | | | | | | |
| **Methods of Assessment** | * Two quizzes & four different clinical assessments * Final exams composed of MCQs & essays. | | | | | | | | | |
| **Domain 2: COGNITIVE SKILLS** | | | | | | | | | | |
| **Skills to be developed** | By the end this course the students will be able to differentiate key findings.   * Make good clinical decisions. * Translate knowledge into new contexts. * Interpret facts, compare and contrast alternative procedures or materials. * Solve problems using appropriate skills or techniques (flat ridge, undercuts and abnormal jaw relations) * Select appropriate procedures or treatment. | | | | | | | | | |
| **Teaching Strategies** | * Lectures * Clinical sessions on patients. * Interpretation seminars for conducting clinical experiences. | | | | | | | | | |
| **Methods of Assessment** | * Graded Quizzes * Continuous Clinical Assessment (four all over the semester) * Final exams composed of MCQs and essays. * Dept. Discretion * Graded Achieved Requirements. | | | | | | | | | |
| **Domain 3: INTERPERSONAL SKILLS AND RESPONSIBILITY** | | | | | | | | | | |
| **3A: INTERPERSONAL SKILLS** | | | | | | | | | | |
| **Skills to be developed** | By the end this course the students will be able   * Work effectively in-group preparation for seminars. * Show respect and appropriate ethical behaviour towards classmates and instructors. * Demonstrate positive attitude toward others [nurses and technicians & employees]. | | | | | | | | | |
| **Teaching Strategies** | * Assigning work to be completed on schedule * Topic Presentations. * Group work and discussion | | | | | | | | | |
| **Methods of Assessment** | * Two Graded Quizzes. * One Written Final Exam. * Dept. Discretion * Graded Presentations. * Clinical Requirements. * Peer Evaluations. * Observation and Continuous Assessment. | | | | | | | | | |
| **3B: RESPONSIBILITY** | | | | | | | | | | |
| **Skills to be developed** | * Responsibility for self-learning * Time management and ability to function effectively under pressure. * Acting responsibly – personal and professional situations. | | | | | | | | | |
| **Teaching Strategies** | * Assigning work to be completed on schedule * Topic presentation with audience discussion &feedback * Group work and discussion | | | | | | | | | |
| **Methods of Assessment** | * Graded topic assignment and class presentations. * Evaluation of students’ behavior by instructors. | | | | | | | | | |
| **Domain 4: COMMUNICATION SKILLS, INFORMATION TECHNOLOGY, and NUMERICAL SKILLS** | | | | | | | | | | |
| **4A: COMMUNICATION SKILLS** | | | | | | | | | | |
| **Skills to be developed** | | | **At the end of the course, students will be able to:**   * Communicate effectively with colleagues and faculty both orally and in writing. * Use the Internet and hand-held devices for communication. | | | | | | | |
| **Teaching Strategies** | | | * Group discussions * Explanation of the basics of effective communication | | | | | | | |
| **Methods of Assessment** | | | * Evaluation of individual and group discussions and presentations by instructor and peers. | | | | | | | |
| **4B: INFORMATION TECHNOLOGY, and NUMERICAL SKILLS** | | | | | | | | | | |
| **Skills to be developed** | | **After completion of the course, the students will be able to:**   * Make Power Point Presentations. * Use IT applications in Removable Prosthodontics. | | | | | | | | |
| **Teaching Strategies** | | * Lectures. * Assignments that require the use of computers as tools and the use of the Internet to gather information. | | | | | | | | |
| **Methods of Assessment** | | * Graded Topic Presentations. | | | | | | | | |
| |  |  | | --- | --- | | **Teaching Strategies** | * Regular demonstrations | | **Methods of Assessment** | * Continuous assessments on the students’ performance * Final clinical exams. * Dept. Discretion | | **EVALUATION**  The student must pass the clinical and didactic parts separately.  Students are required to fulfill the following requirements on time.  **Requirements:**  - Students are required to fulfill the following requirements on time:  1. Clinically completed maxillary & mandibular complete dentures.  2. Clinically completed mandibular partial denture (Class I Kennedy) | |   **Domain 5: PSYCHOMOTOR SKILLS** | | | | | | | | | | |
| The students will be trained on performing clinical steps of different removable restorations & will be evaluated several times throughout the semester. | | | | | | | | | | |
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| **Continuous Assessment:**  Didactic: (Two quizzes) Clinical:  (Four assessments)  Dept. Discretion    **Final Exam:**  Final didactic exam  Clinical exam  **Total** | | | | **60%** | |  | | | | |
|
| 20% | |  | | | | |
| 30% | |  | | | | |
| 10% | |  | | | | |
|  | |  | | | | |
| **40%** | |  | | | | |
| 20% | |
| 20% | |  | | | | |
| **100%** | |  | | | | |
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| **Learning Resources**  **1. Required Texts** | | | | | | | | | | |
| 1. Atlas of Oral and Maxillofacial Rehabilitation: Seto K, Matsuura M, Shimozato K,   Goto M, Nomura T, 2004 | | | | | | | | | | |
| **2. Essential References** | | | | | | | | | | |
| 1. “Stewart’s Clinical Removable Prosthodontics” by Phoenix RD ,   Cagna DR and DeFreest CF 4th Ed., Quintessence , 2008  2. “McCracken's Removable Partial Prosthodontics” by Carr  AB, McGivney GP, Brown DT, 12th Ed., Elsevier , 2011  3. Prosthodontic Treatment for Edentulous Patients. Zarb G,  Hobkirk JA, Eckert SE, Jacob RF.13th Ed., Elsevier, 2013  4. “Clinical Complete Denture Prosthodontics” by Moustafa A.  Hassaballa, 2nd Ed King Fahad National Library, 2010   |  | | --- | | **Supplementary Materials** | | 1. **Articles and websites suggested by supervisors.** | | | | | | | | | | | | | |
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**Section 4: RELATED MATERIALS FOR THIS COURSE**

1. Quizzes, mid-terms, final exams [Provide their

solution set.]

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2. Paper or transparency copies of lecture notes (Keep

them organized, and, in sequence).

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3. Additional handouts

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