



King Saud University
College of Dentistry
Department of Prosthetic Dental Sciences

SDS 441

**Clinical Removable
Prosthodontics II**

DR. SAMAR ALSALEH

Course Director - F

DR. Noura Omar

Co-Course Director - F

**ACADEMIC YEAR
1431 /1432H (2010/2011G)**

COURSE TITLE : CLINICAL REMOVABLE PROSTHODONTICS II

COURSE CODE : SDS 441

CREDIT HOURS : 3 (1L+2C)

PREREQUISITES : SDS 421

COURSE DESCRIPTION:

This fifth year SDS course is designed to give the student both didactic and clinical experience in the comprehensive management of a variety of cases in Removable Partial and Complete Dentures, emphasis will be placed on overdentures, single dentures, attachments and surveyed crowns.

The didactic component will cover general prosthodontic topics such as pattern and sequelae of edentulism. In addition, concepts of shortened dental arch and the pre-edentulous state will be reviewed. Clinically applied topics will be introduced on the following subjects: Attachments, Occlusion, Dental implants, and Maxillofacial prosthetics.

COURSE OBJECTIVES:

1. Improving the student's knowledge level, both didactically and clinically, with a view to refining the student's approach to comprehensive patient care.
2. Improving the student's clinical skills to perform a comprehensive examination, diagnosis, treatment planning and treatment for variety of removable prosthodontic cases. The students should be able to treat cases that need fixed/removable partial denture with surveyed crowns.
3. Reinforcing the mutual interdependence of high-quality clinical and technical activities for the attainment of precise and predictable clinical outcomes.

COURSE TOPICS:

1. Prosthodontics - Biologic and Functional Aspect of Tooth Loss
2. Pre-edentulism
3. Attachments for Overdentures
4. Attachments for RPD and FPD
5. Removable Occlusal Devices
6. Bite Raising in Prosthodontics
7. Dental Implants – Part 1

8. Dental Implants – Part 2
9. Dental Implants – Part 3
10. Dental Implants – Part 4
11. Maxillofacial Prosthesis – Part 1
12. Maxillofacial Prosthesis – Part 2
13. Maxillofacial Prosthesis – Part 3

INSTRUCTIONAL METHODS:

- ➔ Didactic Lectures
- ➔ Clinical Sessions

EVALUATION AND ASSESSMENT:

The student must pass both the Didactic and the Clinical component separately in order to receive a passing grade in the SDS 441 Course.

| | |
|---|-----------------------|
| Daily Clinical Evaluation: | 30% |
| <ul style="list-style-type: none"> • Clinical evaluation • Weight x Clinical evaluation | <p>15%</p> <p>15%</p> |
| Competency Tests: | 30% |
| Continuous Written Exam | 10% |
| Final Written Exam | 20% |
| Oral Exam | 10% |
| TOTAL GRADE | 100% |

COURSE REQUIREMENTS:

The clinical components of SDS 441 will be part of the Comprehensive Treatment for patients. The student may schedule the same patient in any clinical sessions as long as the same Instructor that started the case is available. For the requirements of SDS 441, the student must diagnose and complete the treatment of a minimum of 4 arches that include at least:

- One Overdenture Case
- One Fixed/Removable Partial Denture with Surveyed Crowns

COURSE PROTOCOL:

1. Each student must fulfill the minimum treatment requirements of the Course. The quality of treatment of each clinical step provided will be of primary concern in the assignment of the final grade. The clinical evaluation form will be strictly followed for each clinical procedure and graded and signed by the Instructor during the session. Treatment exceeding the minimum requirement will be favorably considered provided that its quality is acceptable. Attitude, personality, honesty and punctuality warrant positive grading and cannot be over emphasized.
2. Neatness in the arrangement of the instruments, equipments and materials needed for certain practical procedure will be evaluated as well as maintaining a good, neat and clean appearance of the personal outlook and the working area.
3. Personal behavior of the student will be considered in the evaluation, 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.
4. Each case must be treated under the supervision of the same instructor who signs the treatment plan of the case. Exceptional cases to this rule are to be arranged only by the course director.
5. Being 5 minutes late to the lecture or 10 minutes late to the clinical session is considered as late attendance (LT), each four(LT) will be considered as one absent. Exceeding the mentioned time will be considered as absent. When 25% of the lecture or the clinical sessions are missed, the student will be deprived from taking the final exam according to the university rules and regulations. However, absence due to emergency or sickness may be accepted provided an acceptable excuse or a medical report
6. Competency tests are developed to evaluate the student's ability to perform the procedure independent of faculty input. There will be 3 competency tests during the period of the Course. The competency tests will be performed on one of the cases being treated. The student will select the day to perform each test and will inform both his/her Instructor and the Course Director at the beginning of the clinical session.
7. A Continuous Assessment shall be given in this Course. The assessment will be conducted after the seventh week and it will be in a written exam format.
8. The final written examination at the end of didactic component will carry 20% of the total grade. The written examination will include multiple choice questions, short notes and essays.
9. Oral exam should cover the overall basic knowledge related to removable prostheses.

REFERENCES:

1. Owall B, Kayser AF, Carlsson GE. Prosthodontics: Principles and management strategies. London: Mosby-Wolfe, 1996.
2. Jenkines G. Precision attachments: a link to successful restorative treatment. Quintessence Publishing Co., 1999.
3. Preiskel H. Overdentures made easy. Quintessence Publishing Co.
4. Mohl M, Zarb G, Carlsson G, Rugh J. A text book of occlusion. Quintessence Publishing Co., 1991.
5. Dawson P. Evaluation and diagnosis and treatment of occlusal problems, second edition. St Louis: Mosby, 1989.
6. Worthington P, Lang B, LaVelle W. Osseointegration in Dentistry. Quintessence Publishing Co., 1994.
7. Block M, Kent J, Guerra L. Implant in Dentistry. W.B. Saunders Company, 1997.
8. Beumer, Curtis, Fritell. Maxillofacial Rehabilitation.
9. Taylor T. Clinical Maxillofacial Prosthetics. Quintessence Publishing Co., 2000.

EVALUATION FORMS:

Three forms are to be used by the Course Director to register the grades, sign the marks and write the remarks for each student on a daily basis for both the didactic and clinical parts.

DPC Didactic Performance Card

The student's evaluation form in the didactic part

Clinical Evaluation Form

The student's evaluation form in the clinical part

Competency Tests Form

Each form will represent the assessments and grand total marks for each part of the course.

A copy of each evaluation form is attached to this course outline for the student's information and guidance.

Computer print of DPC will be submitted to each student during this academic semester:

- **After each assessment for didactic part**

EVALUATION FORMS ABBREVIATION:

LC Lecture

LT Late attendance on the lecture or clinical sessions beyond 5 minutes after the due time.

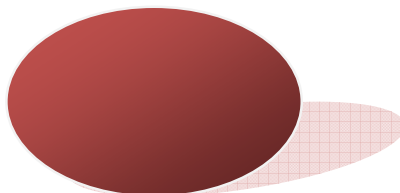
AB Absent (no show)

NT Neatness in the arrangement of the instruments, equipments and materials needed for certain practical procedure and maintaining a good, neat and clean appearance of the personal outlook as well as the working area.

PB 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.
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SDS 441



DR. SAMAR ALSALEH
Course Director – F

Student Name

Group no.

Student no.

| WEEK | LC | LT | AB | WEEK | LC | LT | AB | REMARKS |
|-----------------|----|----|----|------------------|----|----|----|---------|
| 1 st | | | | 8 th | | | | |
| 2 nd | | | | 9 th | | | | |
| 3 rd | | | | 10 th | | | | |
| 4 th | | | | 11 th | | | | |
| 5 th | | | | 12 th | | | | |
| 6 th | | | | 13 th | | | | |
| 7 th | | | | 14 th | | | | |

TOTAL: LT

AB

First Didactic Assessment

GRAND TOTAL /10

Approved Course Director:

Academic Year 20

Semester

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CLINICAL EVALUATION FORM

Student Name: _____ Student No.: _____
Patient's Name: _____ Patient No.: _____
Date Started: _____ Date Completed: _____

Type of Case: Upper Lower

| CLINICAL PROCEDURE | DATE | GRADE | INSTRUCTOR SIGNATURE |
|---|------|-------|----------------------|
| 1. Diagnosis & Treatment Planning | | | |
| 2. Primary Impressions | | | |
| 3. Survey/Design | | | |
| 4. Mouth Preparation | | | |
| 5. Other Restorative Procedures | | | |
| 6. Border Molding | | | |
| 7. Final Impression | | | |
| 8. Try-in Framework | | | |
| 9. Functional Impression (Altered Cast) | | | |
| 10. Maxillary-Mandibular Jaw Relations | | | |
| 11. Try-in Trial Denture(s) | | | |
| 12. Prosthesis Placement | | | |
| 13. Post Placement Evaluation | | | |
| 14. Neatness | | | |
| 15. Personal Behavior | | | |
| OVERALL GRADE (AVERAGE) | | | |

COMPETENCY TEST FORM

Student Name: _____

Student No.: _____

| EXAMINATION | PATIENT NAME & FILE NO. | EVALUATION | | |
|--|----------------------------|-----------------|-----------------|---------|
| | | EXAMINER (1) | EXAMINER (2) | AVERAGE |
| (1) Designing & Tooth Preparation | | | | |
| (2) Final Impression of Edentulous Arch | | | | |
| (3) Maxillary- Mandibular Jaw Relation | | | | |

LECTURE NO. 1

Lecturer: Dr. Samar Alsaleh

TITLE: Prosthodontics - Biologic & Functional Aspect of Tooth Loss

TOPICS:

- Overview of the course outline, objectives, and requirements
- The inter-relationship between SDS 441 and DEN 491
- Biological and functional aspects of tooth loss
- The shortened dental arch concept

REFERENCE:

- *Prosthodontics. Principles and Management Strategies. Owall, Kayser and Carlsson, Chap. 3, pp. 35-47.*

LECTURE NO. 2

Lecturer: Dr. Samar Alsaleh

TITLE: Pre-edentulism

TOPICS:

- Definition and sequelae
- Description of 'preventive' prosthodontics
- Factors influencing management options
- Transitional prostheses
- Overdentures
- Implants

REFERENCE:

- *Prosthodontics. Principles and Management Strategies. Owall, Kayser and Carlsson, Chap. 4, pp. 49-47.*

LECTURE NO. 3

Lecturer: Dr. Samar Alsaleh

TITLE: Attachments for Overdentures

TOPICS:

- Indications and benefits
- Magnets and stud attachments
- Bar attachments, Hader and Dolder
- Clinical and laboratory methods for attachment incorporation

REFERENCE:

- *Overdentures made easy. Preiskel, Chap. 5 & 6, pp. 81-137.*

LECTURE NO. 4

Lecturer: Dr. Samar Alsaleh

TITLE: Attachments for RPD and Segmented Bridges

TOPICS:

- Classification of RPD attachments
- Indications and contraindications
- Rigid and non-rigid connectors for fixed bridges

REFERENCE:

- *Precision Attachments. Gareth Jenkins, Chap. 2 & 5 pp. 21-32 & 65-77.*

LECTURE NO. 5

Lecturer: Dr. Samar Alsaleh

TITLE: Removable Occlusal Devices

TOPICS:

- Diagnostic and management rationale
- Classification
- Method of fabrication
- Post-insertion instructions

REFERENCE:

- *A Textbook of Occlusion. Mohl Zarb, Carlsson and Rugh, Chap. 20, pp. 271-284.*

LECTURE NO. 6

Lecturer: Dr. Samar Alsaleh

TITLE: Bite Raising in Prosthodontics

TOPICS:

- Definition of bite collapse
- Indications and contraindication of bite raising
- Mechanics of bite raising

REFERENCE:

- *Evaluation and diagnosis of occlusal problems. Peter dawson, Chap. 5.*

SDS 441

7th Week

**MID-TERM
WRITTEN
EXAMINATION**

LECTURE NO. 7

Lecturer: Dr. Samar Alsaleh

TITLE: Dental Implants – Part I : Clinical Procedures

TOPICS:

- Review of surgical procedure
- Impression techniques in implant Prosthodontics.
- Abutment selection
- Temporization

REFERENCE:

LECTURE NO. 8

Lecturer: Dr. Tariq Abduljabbar

TITLE: Dental Implants – Part II : Clinical and Laboratory Procedures

TOPICS:

- Laboratory procedures
- Try in and insertion
- Cementation of single implant restorations.
- Delivery of implant retained overdenture

LECTURE NO. 9

Lecturer: Dr. Tariq Abduljabbar

TITLE: Dental Implants – Part III: Occlusal Considerations for Implant supported Prosthesis and Maintenance

TOPICS:

- Occlusal considerations for implant supported prosthesis
- Maintenance and complications

LECTURE NO. 10

Lecturer: Dr. Tariq Abduljabbar

TITLE: Dental Implants – Part IV: Advanced Implant Prosthodontics

TOPICS:

- Anatomical limitation for implant placement
- Full-mouth implant supported rehabilitation
- Implant failure

LECTURE NO. 11

Lecturer: Prof. Walid Sadig

TITLE: Maxillofacial Prosthesis – Part 1

TOPICS:

- Introduction
- Classification of congenital defects
- Cleft lip and palate team
- Sequence of treatment

REFERENCE:

- *Maxillofacial Rehabilitation. Beumer, Curtis & Fritell, Chap. 7, pp. 292-310.*

LECTURE NO. 12

Lecturer: Prof. Walid Sadig

TITLE: Maxillofacial Prosthesis – Part 2

TOPICS:

- Review on head and neck cancer
- Acquired maxillary defects
- Acquired mandibular defects
- Radiation therapy

REFERENCE:

- *Clinical Maxillofacial Prosthetics. Thomas Taylor, Chap. 6, 7 & 8, pp. 85-133.*

LECTURE NO. 13

Lecturer: Prof. Walid Sadig

TITLE: Maxillofacial Prosthesis III

TOPICS:

- Classification of facial replacements
- Facial moulage
- Materials used in maxillofacial prosthetics

REFERENCE:

- *Clinical Maxillofacial Prosthetics. Thomas Taylor, Chap. 16, pp. 323-245.*

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15th Week

31 January 2010

FINAL WRITTEN EXAMINATION