

اسم المقرر : الاستعاضه المتحركه واستعاضه الوجه والفكين

رقم ورمز المقرر : ٤٤١ ماس

عدد وحداته الدراسيه: ٣ ساعات

المتطلبات السابقه : ٤٢١ ماس

## **SDS 441 – CLINICAL REMOVABLE PROSTHODONTICS II**

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### **SEQUENCE:**

This course is given to fifth year students. The Clinical part of this Course will be merged with the Fifth Year Comprehensive Treatment Clinic.

**PRE-REQUISITES: SDS 421**

**COURSE CREDIT: 3 Credit Hours**

- 1 credit hour = One hour lecture weekly for one semester.
- 2 credit hours = 3 hours clinic weekly for two semesters.

### **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 EVALUATION:**

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

### **Final Examination:**

#### **1. Daily Clinical Evaluation = (30%)\***

**\* (15% for clinical Evaluation, 15% for weight x Clinical Evaluation)**

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. Competency Tests = (30%)**

These 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 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. The six competency test will be as follows:

- 1) Tooth preparation, design and final impression for an RPD arch (10%)
- 2) Border moulding final impression for a complete or overdenture arch (10%)
- 3) Jaw relation record for a complete overdenture case (10%)

The student will be responsible for completing all of the competency tests within the course at their discretion.

#### **3. Continuous Written Exam = (10%)**

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.

#### **4. Final Written Exam = (20%)**

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.

#### **5. Oral Exam = (10%)**

It should cover the over all basic knowledge related to removable prostheses.

## **CLINICAL 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 5 cases that include at least:

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

## **REFERENCES:**

1. Owall B, Kayser AF, Carlsson GE. Prosthodontics: Principles and management strategies. London: Mosby-Wolfe, 1996.
2. Jenkin 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.

## **COURSE OUTLINE:**

### **1. Introduction, Prosthodontics – Biologic and functional aspect of tooth loss**

- a. Course description, objectives and requirements.
- b. The inter-relationship between SDS 441 and DEN 491.
- c. Biological and functional aspects of tooth loss.
- d. The shortened dental arch concept.

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

### **2. Pre-edentulism.**

- a. Definition and sequelae
- b. Description of 'preventive' prosthodontics
- c. Factors influencing management options
- d. Transitional prostheses
- e. Overdentures
- f. Implants

*Reference: Prosthodontics. Principles and Management Strategies. Owall, Kayser and Carlsson Chap. 4 pp. 49-64.*

### **3. Attachments for Overdentures**

- a. Indications and benefits
- b. Magnets and stud attachments
- c. Bar attachments, Hader and Dolder
- d. Clinical and laboratory methods for attachment incorporation

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

### **4. Attachments for RPD and segmented bridges**

- a. Classification of RPD attachments
- b. Indications and contra-indications
- c. Rigid and non-rigid connectors for fixed bridges

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

### **5. Removable Occlusal Devices**

- a. Diagnostic and management rationale.
- b. Classification.
- c. Method of fabrication.
- d. Post insertion Instructions.

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

### **6. Bite raising in Prosthodontics**

- a. Definition of bite collapse.

- b. Indication and contraindication of bite raising.
- c. Mechanics of bite raising.

*Reference: Evaluation and diagnosis of occlusal problems. Peter dawson. Chap. 5*

## **8. Dental Implants I**

- a. Introduction
- b. Types of dental implants
- c. Osseointegration concept
- d. Brief overview of the surgical procedures

*Reference: Osseointegration in Dentistry. Worthington, P, Lang, BR and LaVelle, WE.  
Chap. 1 & 5 pp 11-18 & 47-64.*

## **9. Dental Implants II**

- a. Command for comprehensive treatment planning
- b. Implant epidemiology, indications and benefits
- c. Concept of case selection and clinical assessment
- d. Medical Evaluation and surgical risks

*Reference: Implant in Dentistry. Block, Kent and Guerra Chap. 3&8 pp 17-20 & 74-86.*

## **10. Dental Implants III**

- a. Radiographic examination
- b. Mounted casts and surgical stents
- c. Prosthetic options
- d. Answering the patient's questions

*Reference: Implant in Dentistry. Block, Kent and Guerra Chap. 5&8 pp 33-44 & 74-86.*

## **11. Dental Implants IV**

- a. Prosthodontic aspects of osseointegration
- b. Fixed implant-supported prosthesis
- c. Removable implant-supported prosthesis
- d. Maintenance and oral hygiene

*Reference: Osseointegration in Dentistry. Worthington, P, Lang, BR and LaVelle, WE.  
Chap. 9 pp. 91-116.*

## **12. Maxillofacial Prosthesis I**

- a. Introduction
- b. Classification of congenital defects
- c. Cleft lip & palate team
- d. Sequence of treatment

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

## **13. Maxillofacial Prosthesis II**

- a. Review on head and neck cancer

- b. Acquired maxillary defects
- c. Acquired mandibular defects
- d. Radiation therapy

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

#### **14. Maxillofacial Prosthesis III**

- a. Classification of facial replacements
- b. Facial moulage
- c. Materials used in maxillofacial prosthetics

*Reference: Clinical Maxillofacial Prosthetics: Thomas Taylor. Chap. 16, pp. 233-245.*

#### **SDS 441 - Lecture Schedule**

<b>Lecture #</b>	<b>Date</b>	<b>Lecture Title</b>	<b>Lecturer</b>
1	1 <sup>st</sup> week	Biologic and functional aspect of tooth loss	
2	2 <sup>nd</sup> week	Pre-edentulism	
3	3 <sup>rd</sup> week	Attachments for overdentures	
4	4 <sup>th</sup> week	Attachments for RPD an FPD	
5	5 <sup>th</sup> week	Removable occlusal devices	
6	6 <sup>th</sup> week	Bite raising in Prosthodontics	
	8 <sup>th</sup> week	<b>Mid-term Assessment</b>	
7	9 <sup>th</sup> week	Dental Implants (I)	
8	10 <sup>th</sup> week	Dental Implants (II)	
9	11 <sup>th</sup> week	Dental Implants (III)	
10	12 <sup>th</sup> week	Dental Implants (IV)	
11	13 <sup>th</sup> week	Maxillofacial prosthesis (I)	
12	14 <sup>th</sup> week	Maxillofacial prosthesis (II)	
13	15 <sup>th</sup> week	Maxillofacial prosthesis (III)	
14	16 <sup>th</sup> week	<b>End of Term Assessment</b>	