

King Saud University College of Dentistry

Department of Prosthetic Dental Sciences

SDS 431

**Clinical Fixed Prosthodontics I**

**DR. SHARIFA ALSHEHRI**

Course Director - F

**DR. SAHAR ALZAIN**

Course Co-director - F

**ACADEMIC YEAR**

**1430 /1431H (2009/2010G)**

**COURSE TITLE** : **Clinical Fixed Prosthodontics I**

**COURSE CODE** : **SDS 431**

**CREDIT HOURS** : **4 (1L+1P+2C)**

**PREREQUISITES** : **SDS 331 Course (Introduction to Fixed Prosthodontics)**

**COURSE DESCRIPTION**

This course serves as a transitional phase from a preclinical to a clinical environment. It provides a framework for the student to reinforce concepts learned in the previous fixed prosthodontic course (SDS 331). This course introduces the fourth-year students to the clinical aspects of delivering patient care in the specialty of fixed prosthodontics. It is designed to teach the student to clinically apply basic principles of fixed prosthodontics. **The student is expected to develop the necessary skills for gathering diagnostic information, developing a sequential treatment plan, and performing fixed prosthodontic procedures using sound clinical judgment.**

**COURSE OBJECTIVES**

**At the end of the course, the dental student should:**

1. acquire basic concepts necessary for the diagnosis and treatment planning of simple fixed prostheses.
2. bring together the knowledge and skills for a successful management of different clinical fixed prosthetic cases.
3. acquire experience of performing different types of tooth preparations of abutments of fixed prostheses.
4. acquire the knowledge and skills to fabricate a biologically compatible and esthetically and functionally acceptable provisional crown.
5. acquire the knowledge and skills to safely manage soft tissues for making impressions of prepared tooth/teeth.
6. acquire a clinical experience utilizing a face bow, inter-occlusal records and semi-adjustable articulators for mounting clinical cases.
7. acquire an experience in performing some laboratory procedures for fabrication of fixed prostheses.
8. develop a good dentist-laboratory technician relationship.
9. properly deliver fixed prostheses.
10. acquire an introductory preclinical experience of restoring missing tooth/teeth with dental implants.

**COURSE TOPICS**

* Treatment planning & treatment sequence of fixed partial prosthodontics
* Principles of occlusion
* Review of various tooth preparations
* Management of abnormal tooth positions
* Restoration of the endodontically treated teeth
* Interim fixed restorations
* Tissue management and impression making
* Description of Color and shade selection
* Principles of esthetics
* All ceramic restorations
* Implant supported fixed prosthodontics
* Connectors for fixed partial prosthesis
* Evaluation of the final restoration & try-in procedures
* Cementation of the final restoration
* Post-operative care of fixed partial prosthesis

**STUDY PLAN AND COURSE REQUIREMENTS:**

To receive the maximum benefit from this course, the student must attend all lecture, laboratory and clinical sessions. A large emphasis of this course is placed on the clinical applications of the principles of Fixed Prosthodontics, which will be presented in a variety of formats including lectures, preclinical exercises and clinical demonstrations.

A portion of this course is devoted to reviewing the fundamental concepts that were presented in the previous Prosthodontic course. Much of the review material can be found in your lecture notes from SDS 331, as well as the recommended textbooks listed in this syllabus. Reviewing your previous lectures will assist in understanding the lectures as they are presented.

**Satisfactory completion of this course requires:**

1. Attendance in lecture, laboratory and clinic. Twenty-five percent (25%) of absence from the lecture or laboratory sessions or clinical sessions will deprive the student from taking the final examination (University Rules & Regulations).
2. A minimal passing grade of %60 must be achieved for the didactic component as well as the clinical and laboratory component of the course.
3. A satisfactory completion of the laboratory and clinical competency exams.
4. A satisfactory completion of the minimum clinical requirements.

**CLINICAL & LABORATORY REQUIREMENTS:**

Each student is required to:

1. Complete the treatment of a minimum of two fixed prosthodontic cases of a relatively simple nature with a minimum of **4 units** (single crowns, 3 or 4 unit fixed partial denture, post and core restorations- direct or indirect).
2. For the purpose of this course, treatment means the following:
   1. Detailed and systematic documentation of clinical findings, including full detailed charting, accurate mounted study casts, radiographs.
   2. Clear documentation of all findings, treatment options, relative prognosis and treatment sequence.
   3. Meticulous execution of clinical procedures.
3. Complete and pass the laboratory competency exam.
4. Complete and pass the clinical competency exam.
5. It is important that each student be exposed to a range of common FP procedures. If this is not achievable by himself, then observing a colleague is the minimum requirement.
6. Clinical activities will be recorded on a weekly basis by the assigned instructor.
7. **Laboratory procedures you are responsible for the first semester**, are the following:
   1. Pouring preliminary impressions and fabricating your diagnostic casts.
   2. Diagnostic mounting.
   3. Diagnostic preparation and/or wax-up for esthetics or occlusal plane determination, including duplication of wax-up and pouring a stone cast.
   4. Fabrication of a putty matrix for provisional fabrication.
   5. Fabrication of an acrylic provisional.
   6. Fabrication of custom trays.
   7. Die trimming
   8. Laboratory work authorization.
8. **Laboratory procedures you are responsible for the second semester**, are the following:
   1. Die trimming
   2. Laboratory work authorization.

**INSTRUCTIONAL METHODS**

* Didactic Lectures
* Hands on Practical Sessions
* Hands on Clinical Sessions

**EVALUATION AND ASSESSMENT**

In order to receive a passing grade for the course, the student must pass each of the didactic and clinical/laboratory components separately.

1. **Didactic**
   1. Quizzes 10%
   2. Mid-term written examination 10%
   3. Final written examination 20%

**Total 40%**

1. **Clinical/laboratory**
   1. Laboratory Competency Exams 10%
   2. Continuous Laboratory Assessments 10%
   3. Clinical Competency Exams 10%
   4. Continuous Clinical Assessments 15%
   5. Clinical Requirement Achievements 10%
   6. Course Director end-of-year evaluation 5%

**Total 60%**

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**TOTAL 100%**

**REQUIRED TEXTBOOKS**

General Reference Book:

Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006.

Supplementary Reference:

Shillingburg HT, Hobo S, Whitsett LD, Jacobi R & Brackett SE. Fundamentals of Fixed Prosthodontics, 3rd ed. Quintessence Publishing Co, 1997.

**COURSE PROTOCOL**

The student should be present in the lecture room, the laboratory and the clinic prior to the lecturer and the instructor.

1. A student who attends 5 minutes after the beginning of the lecture time or 10 minutes after the beginning of the laboratory/clinical session will be given (-1) mark under “late” (LT) score.
2. A student who attends 10 minutes after the beginning of the lecture time or 15 minutes after the beginning of the laboratory/clinical session will be given (-2) mark under “late” (LT) score.
3. A student who is absent will be given (-2) marks under “absent” (AB) score.
4. A student who exceeds (-14) marks under (LT)+(AB) score in either the didactic, laboratory, or clinical part will not be eligible to sit for the final examination and will be considered as a “disqualified” student.
5. The student should be seated on the same location in the laboratory and the clinic and should handle the materials, equipments, instruments and other devices with care and caution.
6. The student should finish the clinical/laboratory work during the allotted clinical time.
7. A student is allowed to start the treatment procedure only after a definitive treatment plan is approved and signed in the patient's chart by the clinical instructor supervising the student.
8. Any clinical procedure that is performed by the student should be recorded in the patient's chart at each clinical session. The student should also write clearly his name, university number and signature. This should be followed by the signature of the clinical instructor supervising the student.
9. Professionalism is expected from students at all times. Coordination with the Booking Area to book patients is the responsibility of the students.
10. Improper management of the case, repeated ignorance to instructions, repeated irreversible damage, improper behavior with patients, dental assistants and/or clinical instructors will have a negative impact on the student’s grade.
11. The Final evaluation is based on the number of complete cases, proper management of the allotted clinical time, knowledge, performance of clinical procedures and proper behavior.
12. All verbal or written instructions given by the Course Director will be automatically considered as part of this course outline in your hand.

**LABORATORY COMPETENCY EXAM:**

Each student performs tooth preparation and provisionalization for a single PFM crown, which is graded according to defined standards by your laboratory instructor and by the course director. Each student is expected to pass this competency exam before he starts any tooth preparation procedures in the clinic. However if a student fails this exam, the student could still see patients and prepare them for fixed prosthodontic treatment (examination, treatment planning, referral for preparatory treatment and foundation restorations).

For those students who do not pass this exam, a redo exam will be scheduled after certain lab exercises are performed under the direction of the course director. Once an exam is failed, only a passing grade can be scored after the redo exam.

**CLINICAL COMPETENCY EXAM:**

Each student performs a single crown preparation and provisionalization, which is graded according to defined standards by your clinical instructor and by the course director. If it is not possible to do the exam on a single vital tooth, an abutment for an FPD may be used.

The purpose of the clinical competency exam on a single crown is to allow you to assess your performance and to work independently, while allowing the faculty to evaluate your clinical competence in Fixed Prosthodontics.

The procedures followed for this examination should not be any different from those involved in the restoration of any complete crown. The exception is that you cannot receive any help from your instructor. If you are unsure about anything and have a question, ask. It would be better to lose a point or two then to proceed and cause iatrogenic damage to the patient’s tooth, resulting in possible failure.

Prior to initiating a clinical competency exam, you should be fully prepared to describe the rationale for placement of a crown, how the treatment relates to the overall plan of care, the current periodontal, pulpal, and occlusal status of the tooth to be crowned, the type and design of the proposed prosthesis, and any special problems and considerations of which the attending faculty should be aware.

You should obtain the evaluation form with given grading criteria prior to initiating the clinical competency exam. Evaluation steps: Preparation and provisionalization. Self evaluation is a critical part of the examination process. Your evaluation of each step is required; otherwise 1 point will be subtracted from each section lacking.

For any fixed prosthodontic procedure, the following outcomes will result in a failure:

1. Failure to detect remaining caries on a prepared tooth.
2. A mechanical exposure of the pulp.

3. Damage to the adjacent tooth or teeth, which would necessitate a significant

change in contour of the adjacent tooth or teeth.

4. Failure to extend beyond existing foundation, caries, restorative material, or

abrasion areas, by a minimum of 0.5 mm onto sound tooth structure.

5. Irreversible damage to the periodontium during tooth preparation, retraction cord

placement, impression procedures, or delivery of an inappropriate provisional

restoration.

6. “Excessive preparation of the tooth”, necessitating root canal therapy,

periodontal intervention, or extraction.

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**SDS 431 COMPETENCY EXAM**

**TOOTH PREPARATION EXAM**

STUDENT NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ STUDENT NO.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_SERIAL NO.\_\_\_\_\_\_\_\_\_

PATIENT NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CHART NO.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TOOTH NO.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FEATURE** | **GRADING CRITERIA** | | | | **TOTAL** |
| **1.5 points** | **1 point** | **0.5 point** | **No points** |
| **Occlusal Reduction** | **Proper reduction;**  - Supporting areas or porcelain **=** 1.5 -2.0mm  - Nonsupporting areas or metal= 1.0-1.5mm | **Moderately under-reduced**  -Supporting areas or porcelain<1.5 mm -Nonsupporting areas or metal <1.0mm | **Moderately over-reduced**  -Supporting areas or porcelain≥2.5 mm  -Nonsupporting areas or metal ≥ 2 mm | **Severely over-reduced or under-reduced**  -Supporting areas or porcelain>3.0 mm or  <1.0 mm  -Nonsupporting areas or metal >2.5 mm or <0.5mm |  |
| **Axial Reduction** | **Proper reduction;**  (1.0-1.5mm for metal, 1.5-2.0mm for porcelain)  and  - Rounded line and point angles | **Moderately under-reduced**  (<1.0 mm for metal, <1.5mm for porcelain)  Or  -Lack of rounded line or point angles | **Moderately over-reduced**  (2mm for metal, 2.5mm for porcelain) | **Severely over-reduced or under-reduced**  (>2mm for metal, >2.5mm for porcelain) |  |
| **Two plane reduction** |  | Preparations have proper planes providing adequate material bulk for strength/esthetics | Preparations have moderately improper planes (over-reduced or under-reduced) | Preparations have significantly improper planes (over-reduced or under-reduced) |  |
| **Taper** | Retentive walls have 6 degrees of taper | - Taper present, but near parallel  or - Over-tapered on mesial or distal (>8° <16°) | -Undercuts visually present  or -Over-tapered on buccal or lingual (>8° <16°) | -Severe undercuts present  or -Severe over-tapered on any axial surface (>16°) |  |
| **Margin Placement** | Margins extended to specified target; (even with free gingival margin or 0.5 mm supragingival) | Moderately over-extended (not more than 0.5 mm subgingival) or Moderately under-extended (not more than 1 mm supragingival) | Significantly over-extended (not more than 1.0 mm subgingival) or Significantly  under-extended (not more than 1.5mm supragingival) | Severely over-extended (more than 1.0 mm subgingival) or Severely under-extended (more than 1.5mm supragingival) |  |
| **Finish, margins and  walls** |  | -margins and walls are  smooth -margins are continuous, well defined | -moderate roughness of margins and walls  -margins are moderately non-continuous, moderate lack of definition | -significant roughness of margins and walls  -margins are non-continuous  -lack of definition of finish line |  |
| **Preservation of adjacent tissue** |  | Adjacent Teeth are unaffected by preparation | Adjacent teeth are minimally touched. | Adjacent teeth are abraded and flattened |  |
| **Time management** |  | Student ends the competency exam on time | Student ends the competency exam 10-15 minutes late | Student ends the competency exam more than 15 minutes late |  |

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**SDS 431 COMPETENCY EXAM**

**PROVISIONAL EXAM**

STUDENT NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ STUDENT NO.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_SERIAL NO.\_\_\_\_\_\_\_\_\_

PATIENT NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CHART NO.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TOOTH NO.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FEATURE** | **GRADING CRITERIA** | | | **TOTAL** |
| **1 point** | **0.5 point** | **No points** |
| **Margin** | All margins are sealed and covered without any sub-marginal or excess acrylic without adversely affecting the gingival | Margins display moderate sub-marginal excess  and/or deficiencies (less than 0.5 mm) | Margins are open (a non-cement sealable gap exists between the tooth and provisional) | x2 = |
| **Contours** | Contours are harmonious with adjacent teeth forming proper embrasures | Contours are moderately over or under contoured | Contours are significantly over or under contoured |  |
| **Proximal contacts** | proximal contact is harmonious with the adjacent teeth and conducive for gingival health | Proximal contact is closed but is moderately smaller or larger in size than normal | Proximal contact is open |  |
| **Embrasures** | Embrasures are opened properly for esthetics and gingival health | Embrasures are moderately over or under contoured | Embrasures are significantly over or under contoured |  |
| **Internal adaptation** | Internal surface duplicates preparation detail and is well-adapted | Internal surface doesn’t fully duplicate preparation and is missing detail | Internal surface lacks adaptation and is easily rotated and/or tipped |  |
| **Occlusion** | Provisional displays proper occlusal contacts, without any interference in articulation | Restoration is in hypoocclusion  And/Or Working interference on provisional | Restoration is in hyperocclusion  And/Or Non-working or protrusive interference on provisional |  |
| **Occlusal anatomy** | Clearly defined with proper identifiable cusp points, ridges and grooves of proper height and depth | Lacking of identifiable cusp points, ridges and grooves of proper height and depth involving 1 cusp area | Lacking of identifiable cusp points, ridges and grooves of proper height and depth  involving 2 or more cusp areas |  |
| **Surface and Finish** | External surfaces are smooth and free of pits, voids, roughness that would accumulate plaque or irritate tissues | Moderate roughness on only one surface or voids (less than 1 mm) | Moderate roughness on more than one surface Or  Significant roughness or  voids (≥ 1 mm) on one surface |  |
| **Time management** | Student ends the competency exam on time | Student ends the competency exam 10-15 minutes late | Student ends the competency exam more than 15 minutes late |  |

**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 weekly basis for both didactic, laboratory and clinical parts.

**DPC Didactic Performance Card**

The student’s evaluation form in the didactic part.

**LPC Laboratory Performance Card**

The student’s evaluation form in the laboratory part.

**CPC Clinical Performance Card**

The student’s evaluation form in the Clinical part.

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.

Other forms of evaluation the Course Director will collect from the student are;

**CLE Continuous Laboratory Evaluation**

The student’s continuous evaluation form in the laboratory.

**CCE Continuous Clinical Evaluation**

The student’s continuous evaluation form in the Clinic.

**CCR Fixed Prosthodontics Clinical Cases Report**

The student’s form used to report all clinical cases.

**EVALUATION FORMS ABBREVIATION**

LC Lecture

LB Laboratory session

CL Clinical session

LT Late attendance

AB Absent (no show)

Q Quiz

IE Instructor evaluation

REQ Clinical requirement achievements

CDE Course Director end-of-year evaluation



**DR. SHARIFA ALSHEHRI**

Course Director

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student Name |  | Serial No. |  | Student No. |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| WEEK | LC | LT | AB | Q | WEEK | LC | LT | AB | Q | REMARKS |
| 1st | 1 |  |  |  | 8th | 8 |  |  |  |  |
| 2nd | 2 |  |  |  | 9th | 9 |  |  |  |  |
| 3rd | 3 |  |  |  | 10th | 10 |  |  |  |  |
| 4th | 4 |  |  |  | 11th | 11 |  |  |  |  |
| 5th | 5 |  |  |  | 12th | 12 |  |  |  |  |
| 6th | 6 |  |  |  | 13th | 13 |  |  |  |  |
| 7th | 7 |  |  |  | 14th | 14 |  |  |  |  |
|  |  |  |  |  | 15th | 15 |  |  |  |  |

TOTAL: LT AB Q /10

Mid-term Examination Final Examination

/10 /20

GRAND TOTAL

/ 40

|  |  |  |  |
| --- | --- | --- | --- |
| Approved Course Director: |  | Academic Year 20 | Semester |



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| --- | --- | --- | --- | --- | --- |
| Student Name |  | Serial No. |  | Student No. |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| WEEK | LB | LT | AB | IE | WEEK | LB | LT | AB | IE | REMARKS |
| 1st | 1 |  |  |  | 8th | 8 |  |  |  |  |
| 2nd | 2 |  |  |  | 9th | 9 |  |  |  |  |
| 3rd | 3 |  |  |  | 10th | 10 |  |  |  |  |
| 4th | 4 |  |  |  | 11th | 11 |  |  |  |  |
| 5th | 5 |  |  |  | 12th | 12 |  |  |  |  |
| 6th | 6 |  |  |  | 13th | 13 |  |  |  |  |
| 7th | 7 |  |  |  | 14th | 14 |  |  |  |  |
|  |  |  |  |  | 15th | 15 |  |  |  |  |

TOTAL: LT AB IE /10

Tooth Prep Competency Provisional Competency

/5 /5

GRAND TOTAL

/ 20

|  |  |  |  |
| --- | --- | --- | --- |
| Approved Course Director: |  | Academic Year 20 | Semester |



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Course Director

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student Name |  | Serial No. |  | Student No. |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| WEEK | CL | LT | AB | IE | WEEK | CL | LT | AB | IE | REMARKS |
| 1st | 1 |  |  |  | 8th | 8 |  |  |  |  |
| 2nd | 2 |  |  |  | 9th | 9 |  |  |  |  |
| 3rd | 3 |  |  |  | 10th | 10 |  |  |  |  |
| 4th | 4 |  |  |  | 11th | 11 |  |  |  |  |
| 5th | 5 |  |  |  | 12th | 12 |  |  |  |  |
| 6th | 6 |  |  |  | 13th | 13 |  |  |  |  |
| 7th | 7 |  |  |  | 14th | 14 |  |  |  |  |
|  |  |  |  |  | 15th | 15 |  |  |  |  |

TOTAL: LT AB IE /15 REQ /10 CDE /5

Tooth Prep Competency Provisional Competency

/5 /5

GRAND TOTAL

/ 40

|  |  |  |  |
| --- | --- | --- | --- |
| Approved Course Director: |  | Academic Year 20 | Semester |



**DR. SHARIFA ALSHEHRI**

Course Director

**CONTINUOUS CLINICAL EVALUATION**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student Name |  | Serial No. |  | Student No. |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week | Date | Patient's Name | Patient's File | Performed Procedure | Grade  (of 10) | Instructor Initials | Instructor Signature |
| **1st** |  |  |  |  |  |  |  |
| **2nd** |  |  |  |  |  |  |  |
| **3rd** |  |  |  |  |  |  |  |
| **4th** |  |  |  |  |  |  |  |
| **5th** |  |  |  |  |  |  |  |
| **6th** |  |  |  |  |  |  |  |
| **7th** |  |  |  |  |  |  |  |
| **8th** |  |  |  |  |  |  |  |
| **9th** |  |  |  |  |  |  |  |
| **10th** |  |  |  |  |  |  |  |
| **11th** |  |  |  |  |  |  |  |
| **12th** |  |  |  |  |  |  |  |
| **13th** |  |  |  |  |  |  |  |
| **14th** |  |  |  |  |  |  |  |
| **15th** |  |  |  |  |  |  |  |

NG: No Grade SA: Student Absent (score 0) PDNS: Patient did not show up

|  |  |  |  |
| --- | --- | --- | --- |
| Approved Course Director: |  | Academic Year 20 | Semester |



**DR. SHARIFA ALSHEHRI**

Course Director

**CONTINUOUS CLINICAL EVALUATION**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student Name |  | Serial No. |  | Student No. |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week | Date | Patient's Name | Patient's File | Performed Procedure | Grade  (of 10) | Instructor Initials | Instructor Signature |
| **1st** |  |  |  |  |  |  |  |
| **2nd** |  |  |  |  |  |  |  |
| **3rd** |  |  |  |  |  |  |  |
| **4th** |  |  |  |  |  |  |  |
| **5th** |  |  |  |  |  |  |  |
| **6th** |  |  |  |  |  |  |  |
| **7th** |  |  |  |  |  |  |  |
| **8th** |  |  |  |  |  |  |  |
| **9th** |  |  |  |  |  |  |  |
| **10th** |  |  |  |  |  |  |  |
| **11th** |  |  |  |  |  |  |  |
| **12th** |  |  |  |  |  |  |  |
| **13th** |  |  |  |  |  |  |  |
| **14th** |  |  |  |  |  |  |  |
| **15th** |  |  |  |  |  |  |  |

NG: No Grade SA: Student Absent (score 0)

|  |  |  |  |
| --- | --- | --- | --- |
| Approved Course Director: |  | Academic Year 20 | Semester |



**DR. SHARIFA ALSHEHRI**

Course Director

**FIXED PROSTHODONTICS CLINICAL CASES REPORT**

**STUDENT’S NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_COURSE No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**STUDENT’S No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ STUDENT’S SERIAL No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PATIENT’S NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PATIENT’S FILE No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**RESTORATION TYPE:**

* **CROWN/s # \_\_\_\_\_\_\_\_\_**
* **FPD # \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (ABUTMENT/RETAINERS #\_\_\_\_\_\_\_\_\_PONTIC/s#\_\_\_\_\_\_\_\_\_)**
* **CAST POST & CORE # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **PREFABRICATED POST & CORE #\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **RESTORATION BUILD-UP # \_\_\_\_\_\_\_\_\_ ( ◊ with Pins or ◊ without Pins)**
* **OTHER (describe)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**No. of Units = \_\_\_\_\_\_\_\_\_\_\_\_\_**

**Case Completed: Overall Grade:**

**◊ YES**

**◊ NO: - Reason \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**- Clinical procedure student stopped at: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Instructor’s Comments:**

**Instructor’s Name: Instructor’s Signature:**

For each completed case, the following should be submitted in an envelope attached to this form with the student's name, student’s No., Student’s serial No., the patient's name, and patient’s file No. on it:

* Pre-treatment bite-wing and/or periapical radiograph of the teeth treated.
* Post-treatment bite-wing radiograph of the teeth treated with crowns or FPD.
* Post-treatment periapical radiograph of the teeth treated with post and core (either cast or prefabricated)
* (The submitted radiographs should be the duplicate copies, keeping the original in the patient's file)

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| SDS 431 | **1st Week** |
|  | 7 October 2009 |

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| LECTURE NO. 1 | Lecturer: Dr. Sharifa ALShehri |
| TITLE: Introduction and Orientation | |
| TOPICS:   * Overview of SDS 431 course objectives and contents * Review of knowledge and skills gained to date (with special reference to course SDS 331) * Course continuous assessment and clinical examination   *REFERENCE:*   * *SDS 431 course syllabus* | |
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| LAB SESSION NO. 1 |  |
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| * Laboratory Orientation * Get a Dentoform and equilibrate * Alginate impression making & pouring | |
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| SDS 431 | **2nd Week** |
|  | 14 October 2009 |

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| LECTURE NO. 2 | Lecturer: Dr. Sharifa ALShehri |
| TITLE: The Dynamics of Treatment Planning | |
| TOPICS:   * Identification of Patients Needs * Treatment of Tooth Loss * Selection of Abutment Teeth * Treatment Sequence   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 82-104** | |
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| LAB SESSION NO. 2 |  |
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| * Make a silicon putty index for Maxillary right quadrant (#17 to #13). * Practice on tooth preparation of #16 for PFM Crown. * Practice on direct provisional fabrication. | |
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| SDS 431 | **3rd Week** |
|  | 21 October 2009 |

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| LECTURE NO. 3 | Lecturer: Dr. Sulieman Al Johany |
| TITLE: Principles of Occlusion | |
| TOPICS:   * Review of Anatomy * Clinical Significance of Tooth and Joint Morphology * Review of Mandibular Movements, including Border and Functional Movements * Examination of the Occlusion, Clinical Signs and Symptoms, Radiographic Signs, Occlusal Contacts   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 110-135** | |
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| LAB SESSION NO. 3 |  |
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| * Demonstration of direct provisional fabrication. * Practice on direct provisional fabrication. * Patient related laboratory work (last hour of the laboratory session) | |
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| SDS 431 | **4th Week** |
|  | 28 October 2009 |

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| LECTURE NO. 4 | Lecturer: Dr. Haneef Sherfudhin |
| TITLE: Review of Various Tooth Preparation and Managing Abnormal Tooth Positions | |
| TOPICS:   * The Complete Cast Crown Preparation * The Metal Ceramic Crown Preparation * Managing Pier Abutments * Managing Tilted Molar Abutments * Managing Space Deficit/Excesses * Managing Supra-eruptions/Short Clinical Crowns * Preparations for Periodontally Compromised Teeth   *REFERENCES:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006, pp. 258-285* * *Shillingburg HT, Hobo S., Whitsett LD, Jacobi R & Brackett SE. Fundamentals of Fixed Prosthodontics, 3rd ed.,* **pp. 95-102, 189-193 and 211-213** | |
| QUIZ No. 1 | |
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| LECTURE NO. 4 |  |
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| **Laboratory Competency Exam**  **(Tooth preparation & Provisionalization)**  The dentoform will be collected at the end of the exam for grading | |
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| SDS 431 | **5th Week** |
|  | 4 November 2009 |

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| LECTURE NO. 5 | Lecturer: Dr. Sulieman Al Johany |
| TITLE: Restoration of the Endodontically Treated Teeth | |
| TOPICS:   * Treatment Planning * Principles of Tooth Preparation * Procedures for Post and Core Preparations   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 336-375** | |
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| LAB SESSION NO. 5 |  |
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| * Patient related laboratory work. * A practice session (tooth preparation & Provisionalization) for students who did not pass the laboratory competency exam. | |
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| SDS 431 | **6th Week** |
|  | 11 November 2009 |

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| LECTURE NO. 6 | Lecturer: Dr. Abdulaziz Albaker |
| TITLE: Interim Fixed Restorations | |
| TOPICS:   * Applications of Templates in Diagnosis and Treatment * Template Construction Techniques * Review of Provisional Restoration Fabrication Techniques   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 466-502** | |
| QUIZ No. 2 | |
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| LAB SESSION NO. 6 |  |
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| * Patient related laboratory work. * A practice session (tooth preparation & Provisionalization) for students who did not pass the laboratory competency exam. | |
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| SDS 431 | **7th Week** |
|  | 18 November 2009 |

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| LECTURE NO. 7 | Lecturer: Dr. Youssef Aljabbari |
| TITLE: Tissue Management and Impression Making | |
| TOPICS:   * Fluid Control * Finish Line Exposure * Types of Impression Materials * Impression Techniques   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 431-462** | |
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| LAB SESSION NO. 7 |  |
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| **Laboratory Competency (redo) Exam**  **(Tooth preparation & Provisionalization)**  The dentoform will be collected at the end of the exam for grading   * Patient related laboratory work. | |
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| SDS 431 | **8th Week** |
|  | 9 December 2009 |

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| LECTURE NO. 8 | Lecturer: Dr. Sharifa ALShehri |
| TITLE: Description of Color and Esthetics | |
| TOPICS:   * Description of Color * Shade Selection Sequence * Esthetics   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 709-732** | |
| Quiz No. 3 | |
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| LAB SESSION NO. 8 |  |
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| * Patient related laboratory work. | |
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| SDS 431 | **9th Week** |
|  | 16 December 2009 |

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| LECTURE NO. 9 | Lecturer: Dr. Abdulaziz Albaker |
| TITLE: All Ceramic Restorations | |
| TOPICS:   * High Strength Ceramics * All-Ceramic Systems * Selection of All-Ceramic Systems * Porcelain Labial Veneer   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 774-800** | |
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| LAB SESSION NO. 9 |  |
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| * Patient related laboratory work. | |
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| SDS 431 | **10th Week** |
|  | 23 December 2009 |

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| **MID-TERM WRITTEN EXAMINATION** | |
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| SDS 431 | **11th Week** |
|  | 30 December 2009 |

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| LECTURE NO. 10 | Lecturer: Dr. Khalil Al Ali |
| TITLE: Implant Supported Fixed Prosthesis I | |
| TOPICS:   * Treatment planning * Partial edentuilism in the anterior regions * Partial edentulism in the posterior regions   *REFERENCE:*   * *Clinical Manual of Implant Dentistry,* **pp. 145-157** | |
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| LAB SESSION NO. 10 |  |
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| * Patient related laboratory work. | |
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| SDS 431 | **12th Week** |
|  | 6 January 2010 |

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| LECTURE NO. 11 | Lecturer: Dr. Khalil Al Ali |
| TITLE: Implant Supported Fixed Prosthesis II | |
| TOPICS:   * Treatment planning for the single missing tooth * Surgical considerations * Prosthetic considerations   *REFERENCE:*   * *Clinical Manual of Implant Dentistry,* **pp. 133-144** | |
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| LAB SESSION NO. 11 |  |
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| * Patient related laboratory work. | |
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| SDS 431 | **13th Week** |
|  | 13 January 2010 |

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| LECTURE NO. 12 | Lecturer: Dr. Youssef Aljabbari |
| TITLE: Connectors for Partial Fixed Dental Prosthesis | |
| TOPICS:   * Rigid Connectors * Non-rigid Connectors * Connector Design * Soldering   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 843-867** | |
| QUIZ No. 4 | |
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| LAB SESSION NO. 12 |  |
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| Patient related laboratory work. | |
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| SDS 431 | **14th Week** |
|  | 20 January 2010 |

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| LECTURE NO. 13 | Lecturer: Dr. Sharifa ALShehri |
| TITLE: Evaluation of the Final Restoration & Cementation | |
| TOPICS:   * Evaluation of the Final Restoration * Characterization and Glazing * Interim Cementation * Definitive Cementation * Types of Permanent Cements * Cementation of Metal Based Crowns * Cementation of All Ceramic Veneers and Inlays   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 887-806 & 909-925** | |
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| LAB SESSION NO. 13 |  |
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| * Patient related laboratory work. | |
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| SDS 431 | **15th Week** |
|  | 27 January 2010 |

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| LECTURE NO. 14 | Lecturer: Dr. Sharifa ALShehri |
| TITLE: Post-Operative Care | |
| TOPICS:   * Post-Cementation Appointments * Periodic Recall * Emergency Appointments * Re-treatment   *REFERENCE:*   * *Rosenstiel SF, Land MF & Fujimoto J. Contemporary Fixed Prosthodontics, 4th ed. Mosby Elsevier, 2006,* **pp. 929-943** | |
| QUIZ No. 5 | |
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| LAB SESSION NO. 14 |  |
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| Patient related laboratory work. | |
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| SDS 431 | **16th Week** |
|  | 3 february 2010 |

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| **FINAL WRITTEN EXAMINATION** | |
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