

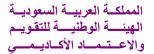
ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)



Course Specifications

Institution	University of Dammam	Date of Report Academic Year 2013- 2014			
College/Department: College of Dentistry /Substitutive Dental Sciences [SDS]					

A. Course Identification and General Information

1. Course title and code							
Introduction to Fixed Prosthodontics / SDEN 442							
2. Credit hours: 05							
3. Program(s) in which the course							
	y programs indicate this rather than list programs)						
Bachelor of Dental Surgery							
4. Name of faculty member respon	ible for the course						
Professor Amr Aly Mahrous							
5. Level/year at which this course							
6. Pre-requisites for this course (if	ny)						
0703232-3231-3242-3362							
7. Co-requisites for this course (if	ny)						
None							
8. Location if not on main campus							
Main campus							
9. Mode of Instruction (mark all the	9. Mode of Instruction (mark all that apply)						
a. Traditional classroom	What percentage? 100%						
b. Blended (traditional and onli	e) What percentage?						
c. e-learning	What percentage?						
d. Correspondence What percentage?							
f. Other	What percentage?						
Comments:							



B Objectives

1. What is the main purpose for this course?

To familiarize the student with the biological and technical aspects of Fixed Prosthodontics by:

- 1. Giving knowledge to the student for basic concepts of retention and resistance forms while preparing extra-coronal restorations.
- 2. Teaching the principles applicable to the preparation of complete veneer crowns (CVC), metal ceramic crowns (MCC), three-quarter crowns and fixed partial dentures (FPD).
- 3. Making students able to list the indications and contraindications for CVCs, MCCs, and FPDs.
- 4. Delivering the knowledge of biomechanics and how it applies to the design of CVCs, MCCS, and FPDs.
- 5. Learning the physical properties and manipulation of elastomeric materials and be able to manipulate and select the one appropriate for the specific case.
- 6. Learning different techniques for fabricating direct and indirect provisional restorations.
- 7. Giving a practical working knowledge of cast and soldered posterior FPD connector design, and of the technique necessary to solder it.
- 8. Making students knowledgeable for gypsum products utilized for the fabrication of casts and indices.
- 9. Educating the students for the properties of dental casting alloys and making them able to select dental casting alloys and solders.
- 10. Developing ability in the student to determine if the finished prosthesis is clinically acceptable.
- 11. The student will be able to differentiate between different types of cements used in fixed prosthodontics.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

Making self – evaluation forms with rubrics on every steps

C. Course Description (Note: General description in the form to be used fo1r the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics A. Lectures	No. of Weeks	Contact Hours
Introduction and Terminology	1	1
Principles of Tooth Preparation - 1	1	1
Principles of Tooth Preparation - 2	1	1
Complete Crown Preparation	1	1
Primary impression & related procedures	1	1
Fluid Control and Tissue Management	1	1
Secondary Impression Materials in fixed Prosthodontics	1	1
Posterior porcelain-fused-to-metal preparation	1	1

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Anterior porcelain-fused-to-metal preparation	1	1
Provisional Restorations -1	1	1
Provisional Restorations -2	1	1
Partial Veneer Crowns	1	1
Articulators	1	1
Fabrication of a Working Cast and Die - 1	1	1
Fabrication of a Working Cast and Die - 2	1	1
Wax patterns in fixed prosthodontics	1	1
Spruing and Investing - 1	1	1
Spruing and Investing - 2	1	1
Burnout and Casting -1	1	1
Burnout and Casting-2	1	1
Finishing and Polishing -1	1	1
Finishing and Polishing -2	1	1
Pontics	1	1
Cements and cementation techniques -1	1	1
Cements and cementation techniques -2	1	1
Solder joint and other connectors	1	1
B. Practical	1	1
Primary Impression Making	1	1
Diagnostic Cast Preparation	1	1
Custom Tray Fabrication	1	1
Complete Crown Preparation (Tooth #30)	1	1
Complete Crown Preparation (Tooth #30)	1	1
Complete Crown Preparation (Tooth #19)	1	1
Complete Crown Preparation (Tooth #14)	1	1
Temporary Crown Fabrication (Tooth #30)	1	1
Temporary Crown Fabrication (Tooth #30)	1	1
Temporary Crown Fabrication (Tooth #19)	1	1
Temporary Crown Fabrication (Tooth #14)	1	1
Tooth Preparation for Posterior PFM Crown	1	1
Tooth Preparation for Anterior PFM Crown	1	1
³ / ₄ Posterior Tooth Preparation	1	1
³ / ₄ Posterior Tooth Preparation	1	1
Final Impression Making	1	1
Master Cast and Die Preparation	1	1
Mounting on Articulator	1	1
Die Preparation	1	1
Wax Pattern Fabrication	1	1
Wax Pattern Fabrication	1	1
Spruing and Investing	1	1
Burnout and Casting	1	1
Finishing and Polishing	1	1

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Completing requirements	1
Completing requirements	1
Completing requirements	1

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30		60			90
Credit	3		2			5

3. Additional private study/learning hours expected for students per week.

No

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Identify the dental instruments, terminology and anatomy of various types of tooth preparations.	Lectures	Two Quizzes
1.2	Describe the oral diagnostic process including clinical and special investigations.	Topic Seminars	Final exams composed of MCQs & essays.
1.3	Describe the fabrication procedures of different fixed prosthetic appliances.		
2.0	Cognitive Skills		
2.1	Differentiate key findings.		Graded Quizzes
2.2	Makes good clinical decisions.		Continuous Practical
2.3	Translate knowledge into new contexts.		Assessment
2.4	Interpret facts, compare and contrast alternative procedures or materials.		Graded Topic Seminar Presentations
2.5	Solve problems using appropriate skills or techniques.	Lectures — Topic Seminars	Graded Topic Seminar Assignments
2.6	Selects appropriate procedures or treatment.		 Final exams composed of scenario-based MCQs and essays. Graded Achieved

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3.0	Interpersonal Skills & Responsibility			•	Requirements. Oral Exam through a panel of at least two faculty members.
3.1	Discuss methods of managing and maintaining a safe environment in dental clinics and laboratories.	•	Assigning work to be completed on schedule Topic presentation	•	Graded topic assignment and class presentations.
3.2	Time management and ability to function effectively under pressure.		with audience discussion &feedback		Evaluation of student behavior by instructors.
3.3	Acting responsibly – personal and professional situations.	•	Group work and discussion		
4.0	Communication, Information Technology, Numer	ical			
4.1	Communicate effectively with colleagues and faculty both orally and in writing.	 Group discussions Explanation of the basics of effective 	•	Evaluation of individual and group discussions and	
4.2	Use the Internet and hand-held devices for communication.		communication		presentations by instructor and peers.
5.0	Psychomotor				
5.1	1. Perform and order special investigations, including oral and maxillofacial radiographs to diagnose patient complaint.	•	Assigning work to be completed on schedule Topic Presentations. Group work and	•	Two Graded Quizzes. One Written Final Exam. Oral Exam.
5.2 5.3	Perform proper isolation of operative. Perform tooth preparation designs for various restorative materials following modern biomechanical and esthetic principles	-	discussion	•	Graded Presentations. Practical Requirements. Peer Evaluations. Observation and Continuous Assessment by the Instructors.



	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment	
1	Quiz 1	4 th	10%	
2	Quiz 2	7 th	10%	
3	Practical exam #1	5 th	5%	
4	Practical exam #2	7 th	10%	
5	Practical exam #3	9 th	10%	
6	Final Practical exam	13 th	20%	
7	Topic Presentation	13 th	15%	
8	Final Written	15 th	20%	

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week) Two Office Hours / Week

E. Learning Resources

1. List Required Textbooks

Fundamentals of Fixed Prosthodontics" by Shillingburg, Hobo and Whitsett, 3rd Ed., Quintessence.

2. List Essential References Materials (Journals, Reports, etc.) Journal of Prosthetic Dentistry

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) PubMed Database for Searching the Dental & Biomedical Literature

5. Other learning material such as computer-based programs/CD, professional standards or regulations and

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software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

Data Shows

2. Computing resources (AV, data show, Smart Board, software, etc.)

UOD e-library

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- Student Surveys
- Teacher- Student discussions

2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor

- Annual evaluation by departmental chair.
- Peer evaluation

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3 Processes for Improvement of Teaching

- Implementing professional faculty development workshops by experts in dental education.
- Enhancing the use of the available smart boards.
- Emphasizing the interactive use of the blackboard e-learning.



4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

• To check that the standards applied for assessment of the students are valid and appropriate, a faculty member of the same division will be responsible for re-evaluation of the students' answers.

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

• Regular preparation of the course report annually and analysis of the students results to determine the points of weakness and establish suitable plans to avoid such weaknesses in the future.

Faculty or Teaching Staff: Prof Amr Mahrous	s
Signature: A. Mah	Date Report Completed:
Received by: DR. ASIM AL ANS	SAR Bean/Department Head
Signature:	Date:

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