



# Course Specifications

<b>Course Title:</b>	<b>Clinical Fixed Prosthodontics</b>
<b>Course Code:</b>	<b>SDS 423</b>
<b>Program:</b>	<b>Bachelor of Dentistry [ BDS ]</b>
<b>Department:</b>	<b>Clinical Fixed Prosthodontics</b>
<b>College:</b>	<b>College of Dentistry</b>
<b>Institution:</b>	<b>Majmaah University</b>

## Table of Contents

<b>A. Course Identification .....</b>	<b>3</b>
6. Mode of Instruction (mark all that apply) .....	3
7. Actual Learning Hours (based on academic semester).....	3
<b>B. Course Objectives and Learning Outcomes.....</b>	<b>4</b>
1. Course Description .....	4
2. Course Main Objective .....	4
3. Course Learning Outcomes.....	4
<b>C. Course Content .....</b>	<b>5</b>
<b>D. Teaching and Assessment .....</b>	<b>6</b>
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods.....	6
2. Assessment Tasks for Students .....	7
<b>E. Student Academic Counseling and Support .....</b>	<b>7</b>
<b>F. Learning Resources and Facilities .....</b>	<b>7</b>
1. Learning Resources .....	7
2. Facilities Required .....	7
<b>G. Course Quality Evaluation.....</b>	<b>8</b>
<b>H. Specification Approval Data .....</b>	<b>8</b>

## A. Course Identification

<b>1. Credit hours:</b> 4 (1+1+2)
<b>2. Course type</b>
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> 4 <sup>th</sup> Year / 1 <sup>st</sup> and 2 <sup>nd</sup> Semester
<b>4. Pre-requisites for this course (if any):</b> SDS323
<b>5. Co-requisites for this course (if any):</b> NA

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	15	10 %
2	Blended	NA	NA
3	E-learning	NA	NA
4	Correspondence	NA	NA
5	Other - Laboratory	135	90%

### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	15
2	Laboratory/Studio	45
3	Tutorial	-
4	Others (specify) /Clinic	90
	<b>Total</b>	<b>150</b>
<b>Other Learning Hours*</b>		
1	Study	45
2	Assignments	15
3	Library	15
4	Projects/Research Essays/Theses	-
5	Others (specify)	-
	<b>Total</b>	<b>75</b>

\* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

## B. Course Objectives and Learning Outcomes

### 1. Course Description

The course serves as the transitional phase from the preclinical to the clinical environment. It provides a framework for the students to negotiate the difficult preclinical to clinical divide in a measured and controlled way, reinforcing concepts learned previously. The clinical phase seeks to equip the students with the fundamental skills for sound clinical fixed prosthodontics practice through the comprehensive management of a minimum of two selected fixed partial denture cases. The concurrent laboratory session in the first semester facilitates the students' understanding of, familiarity with, laboratory procedures and the mutual interdependence between technical and clinical quality.

### 2. Course Main Objective

The main purpose of the course is to provide the students with the optional knowledge and skills for a successful introduction to clinical fixed prosthodontics, developing the student's knowledge base, both didactically and clinically, with a view to refining the student's approach to patient care & awareness of the cost-benefit equation in fixed partial denture therapy and the patient's right to make an informed choice. The students will also learn the reinforcing the mutual interdependence of high quality clinical and technical activities for the attainment of the precise and predictable clinical outcomes.

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
1	<b>Knowledge:</b>	
K3.29	Recognize the basic facts and concepts needed for the diagnosis and treatment by fixed prosthesis	K3
2	<b>Skills :</b>	
S3.15	Critically analyze the various materials, treatment plans, techniques, clinical and pre-clinical procedures and problems related to fixed prosthesis.	S3
S6.12	Perform and demonstrate skills for hands-eye coordination during various clinical and preclinical procedures and techniques for various fixed prosthesis.	S6
3	<b>Competence:</b>	
C4.3	Assess, illustrate & demonstrate the modern technology & information available in the labs, clinics, library and the web for enhancing their knowledge & capabilities.	C4

## C. Course Content

No	List of Topics	Contact Hours
1	<b>Introduction to Clinical Fixed Prosthodontics</b> <ul style="list-style-type: none"> <li>• Common terms used in FPD</li> <li>• Indication and contraindication of FPD</li> <li>• Classification of FPDs</li> </ul>	1
2	<b>Examination, Diagnosis and treatment planning</b> <ul style="list-style-type: none"> <li>• Case history</li> <li>• Examination.</li> <li>• Radiographic examination</li> <li>• Diagnosis and treatment planning</li> </ul>	1
3	<b>Managing abnormal tooth position (Abutment Selection)</b> <ul style="list-style-type: none"> <li>• Classifications</li> <li>• Factors</li> <li>• Special problems</li> </ul>	1
4	<b>Review of various tooth preparation (principles of tooth preparation)</b> <ul style="list-style-type: none"> <li>• Preservation of tooth structure</li> <li>• Retention and resistance</li> <li>• Structural durability, Marginal integrity</li> <li>• Preservation of the periodontium</li> </ul>	1
5&6	<b>Tissue management and Final impressions</b> <ul style="list-style-type: none"> <li>• Objectives and Importance</li> <li>• Mechanical &amp; Chemical Methods</li> <li>• Chemico-mechanical method</li> <li>• Surgical method and recent advances.</li> </ul>	2
7 & 8	<b>Esthetics and shade selection</b> <ul style="list-style-type: none"> <li>• Light and Color</li> <li>• Anatomy of smile &amp; Appearance zone</li> <li>• Sequence of shade selection</li> </ul>	2
9	<b>Occlusion in fixed partial denture</b> <ul style="list-style-type: none"> <li>• Definitions</li> <li>• Concepts of occlusion in FPD</li> </ul>	1
10	<b>Luting cements</b>	

	<ul style="list-style-type: none"> <li>• Ideal requirements</li> <li>• Various types of luting agents Procedure</li> </ul>	1
12 & 11	<b>Failures in fixed partial dentures</b> <ul style="list-style-type: none"> <li>• Types of FPD failures</li> <li>• Causes of failure</li> <li>• Preventions and management</li> </ul>	2
13 & 14	<b>Endodontically treated and extensively damaged abutment</b> <ul style="list-style-type: none"> <li>• Indication for post and core restorations.</li> <li>• Various techniques for post and core.</li> </ul>	2
15	<b>Veneers and laminates</b> <ul style="list-style-type: none"> <li>• Indications and contraindications</li> <li>• Advantages and disadvantages</li> <li>• Types</li> </ul>	1
<b>Total</b>		<b>15</b>

## D. Teaching and Assessment

### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
<b>1</b>	<b>Knowledge</b>		
K3.29	Recognize the basic facts and concepts needed for the diagnosis and treatment by fixed prosthesis	Lectures with PBL, Clinical & lab sessions	Written exams , Oral Exam, OSPE, OSCE, Assignments, Clinical Exam
<b>2</b>	<b>Skills</b>		
S3.15	Critically analyze the various materials, treatment plans, techniques, clinical and pre-clinical procedures and problems related to fixed prosthesis.	Lectures with PBL, Clinical & lab sessions	Written exams; Oral Exam; OSPE; OSCE; Case based scenario; Weekly assessment, Assignments
S6.12	Perform and demonstrate skills for hands-eye coordination during various clinical and preclinical procedures and techniques for various fixed prosthesis.	Clinical & lab sessions	OSPE; OSCE; Case based scenario; Weekly assessment
<b>3</b>	<b>Competence</b>		
C4.3	Assess, illustrate & demonstrate the modern technology & information available in the labs, clinics, library and the web for enhancing their knowledge & capabilities.	Research, Clinical & lab sessions	OSPE; OSCE; Case based scenario; Weekly assessment, Assignments

## 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Professionalism	During the course	5%
2	Quiz	During the course	5%
3	Assignment/Research	During the course	5%
4	Midterm Theory Exam	During the course	10%
5	Final Practical Exam	During the course	10%
6	Weekly Practical assessments	During the course	10%
7	Weekly Clinical assessments	During the course	25%
8	Final clinical Exam	During the course	20%
9	Final Theory Exam	Week 16	10%

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support

**Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :**

The student shall avail the consultancy during the displayed office hours

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	<ul style="list-style-type: none"> <li>✓ Fundamentals of Fixed Prosthodontics, Herbert T. Shillingberg-4th edition</li> <li>✓ Contemporary Fixed Prosthodontics, Stephen F. Rosenstiel-4<sup>th</sup> edition</li> </ul>
<b>Essential References Materials</b>	<ul style="list-style-type: none"> <li>✓ Journal Of Prosthetic Dentistry</li> <li>✓ International Journal Of Prosthetic Dentistry</li> </ul>
<b>Electronic Materials</b>	None
<b>Other Learning Materials</b>	None

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> <li>✓ Lecture room suitable for 30 students</li> <li>✓ Fully equipped lab &amp; clinics for practical, clinical sessions</li> </ul>
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> <li>✓ Projector</li> <li>✓ Smart board with all the accessories</li> <li>✓ Internet</li> </ul>

Item	Resources
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	✓ Automixer for impression materials ✓ Auto shade guide

### G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	✓ Course Evaluation Survey ✓ Quality of Exam Survey
	Faculty	✓ CLO Mapping with teaching & assessment. ✓ Course Blueprinting ✓ Grade Analysis ✓ Psychometric Analysis
	Peers	Grade Verification
Extent of achievement of course learning outcomes	Faculty member / Quality assurance committee	✓ Direct assessment outcome analysis ✓ Course report preparation
Quality of learning resources, etc	Students / Faculty	✓ Academic advising survey ✓ Student experience survey

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

### H. Specification Approval Data

Council / Committee	Department Council
Reference No.	
Date	26/8/1440H