

Course Specification Student Version

Course Title:	Pre-Clinical Fixed Prosthodontics - 2
Course Code:	SDC 422
Department:	Dentistry
Program:	Bachelor of Dentistry
College:	Vision College in Riyadh
Institution:	Vision College in Riyadh
Revised:	July 2025

A. Course Identification

1. Credit hours: 3 (1 + 2 + 0)
2. Level/year at which this course is offered: Level 8/Year 4
3. Pre-requisites for this course (if any): SDC 421
4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Interactive Lectures.
2	Simulation-Based Learning/ Demonstration & Role-playing.

C. Course Description and objectives

1. Course Description

This pre-clinical course will provide the students with theoretical and laboratory background in preparation, components, and fabrication, designing of fixed partial denture cases as well as the laboratory steps in fabrication of fixed partial dentures.

2. Course Main Objective

By the end of this course, the students should be able to identify the different bridge components as well as the laboratory steps involved in fabrication of FPD. The students should be able to prepare teeth efficiently to receive FPD under controlled guidance and supervision in the phantom lab.

3. Course Objectives

By the end of this course, students should be able to:

- Enumerate different bridge components.
- Identify different pontic designs.
- List the importance of interim restoration.
- Mention the different alloys used in the fabrication of metal ceramic restoration.
- Describe the metal-ceramic bond theories and application of porcelain.
- Mention the recent advancement and technology used for all-ceramic restoration fabrication.
- Perform tooth preparation for metal-ceramic, and all-ceramic FPD on simulation models.
- Perform provisional restorations on simulation models.
- Manipulate different materials during and after teeth preparation.
- Demonstrate appropriate handling of different equipment in the lab.
- Demonstrate ethics and professionalism in dental practice.

D. Course Content

No.	List of Topics
1	Introduction to the course.
2	Definition & Classification of Bridge & Bridge Components
3	Pontic Design
4	Connectors for FPD
5	Interim Fixed Restorations
6	Framework Design and Metal Selection for Metal Ceramic Restorations
7	Porcelain application of Metal Ceramic Restorations
8	All Ceramic Materials.
9	Basics of CAD/CAM application in fixed prosthodontics.

E. Assessment tools

#	Assessment task	Percentage of Total Assessment Score
1	Simulation-Based Assessment	40%
2	Midterm written Exam	20%
3	Simulation-Based Exam	10%
4	Final term Written Exam	30%
	Total	100%

F. Learning Resources

Required Textbooks	Shillingburg HT, Hobo S, Whitsett L and Brackett S (2012). Fundamentals of fixed prosthodontics. 4th Ed. Quintessence: Chicago. Contemporary Fixed Prosthodontics, Rosenstiel S.F and Land M.F, 5th ed. Mosby (2016).
Essential Reference Material	Planning & making crown and bridges 4 th . edition (2007)
Electronic Material	Online resources on MOODLE