

Course Specification Student Version

Course Title:	Pre-Clinical Fixed Prosthodontics - 1
Course Code:	SDC 421
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 7/Year 4
3. Pre-requisites for this course (if any): (RDC 311)
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

<p>1. Course Description</p> <p>This pre-clinical course will provide the students with the theoretical basics in teeth preparation for different fixed extra-coronal restorations (full metal, all-ceramic, and metal-ceramic) as well as the laboratory steps in fabrication of full metal crowns.</p>
<p>2. Course Main Objective</p> <p>By the end of this course the students should be able to identify the principles of teeth preparation for extra-coronal restorations and prepare teeth efficiently under controlled guidance and supervision in the phantom lab.</p>
<p>3. Course Objectives</p> <p>By the end of this course, students should be able to:</p> <ul style="list-style-type: none"> Identify the principles of tooth preparation. List advantages and disadvantages of different crown materials. Select the appropriate extra coronal restorations. Predict the effect of tooth preparation on success of fixed restoration. Identify the laboratory steps in fabrication of full metal crowns. Perform the tooth preparation for all-metal, all ceramic and metal-ceramic crowns on simulation model. Manipulate different materials during and after tooth 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 Fixed Prosthodontics.
2	Introduction to Dental Crowns (Indications, contraindications & types of crowns)

3	Instruments used in fixed prosthodontics.
4	Principles of tooth preparation.
5	Full metal crown.
6	All-ceramic crown.
7	Metal-ceramic crown.
8	Working dies.
9	Lost wax technique.

E. Assessment tools

#	Assessment task	Percentage of Total Assessment Score
1	Simulation-Based Assessment	35%
2	Midterm Written Exam	15%
3	Simulation-Based Exam	20%
4	Final term Written Exam	30%
	Total	100%

F. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> Bernard Smith, Leslie Howe. Planning & making crowns and bridges. 4TH Ed. (2007). Shillingburg HT, Hobo S, Whitsett L and Brackett S. Fundamental of tooth preparations for cast metal and porcelain restorations. 1st Ed. Quintessence International 1987: Chicago Contemporary Fixed Prosthodontics, Rosenstiel S.F and Land M.F, 5th ed. Mosby (2016).
Essential Reference Material	Journal of Prosthetic Dentistry. International Journal of Prosthodontics.
Electronic Material	Online resources on MOODLE