



**Beni-Suef University  
Faculty of Dentistry  
Quality Assurance Unit**



## Course Specification

University: **Beni-Suef** Faculty: **Dentistry**  
Course Title: **Technology of fixed prosthodontics** Course code: **DFP 3**  
Program on which the course is given: **Bachelor's degree in Dentistry**  
Department offering the course: **Fixed Prosthodontics Department**  
Academic year: **2023-2024**  
Date of specification approval: **10/2023**

### A- Basic Information

Academic Year:	2023-2024
Course Code:	DFP 3
Course Theoretical (contact hours):	1
Practical (contact hours)	4
Total Hours: -	5
Prerequisite if any:	-----

### B- Professional Information

#### 1- Overall aims of course

The course is designed to provide the students with basic theoretical concepts of fixed prosthodontics. Biomechanical principles of tooth reduction for extracoronal restorations are taught. This proceeds in addition to the application of these concepts on anatomic ivory teeth mounted in models simulating teeth in the oral cavity. Furthermore, the students are trained in the various laboratory steps needed for the laboratory fabrication of fixed restorations.

## 2- **Intended learning outcomes of course (ILOs)**

### **a- Knowledge and understanding:**

This course deals with full coverage abutment reductions and the laboratory steps involved in the construction of their eventual restorations.

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

- a1. Define and be familiar with the terminology used in the field of fixed prosthodontics.
- a2. Classify the different types of crowns and bridges.
- a3. Identify the various instruments used in the field of fixed prosthodontics; demonstrate their individual use and appropriate methods of sterilization.
- a4. List the principles of tooth reduction for extracoronal restorations.
- a5. Outline and correlate the use of each restoration in terms of its indications, contraindications, advantages and disadvantages. This involves three full coverage types: Full metal veneer crown restorations, Jacket crown restorations and Ceramometallic restorations.
- a6. Classify the requirements of various dental casting alloys.
- a7. Explain the nature, composition, and properties of dental porcelain.
- a8. Describe the basic laboratory procedures involved in the production of each restoration.

### **b- Intellectual skills:**

By the end of the course, the student should be able to:

- b1. distinguish the different instruments used in the field of prosthodontics.
- b2. Design a model with a Fixed die using a double pin technique.
- b3. Select the most suitable plan to be implemented for each case.
- b4. Analyze the collected data and recognize the relative information to determine patients' diagnosis.

b5-Design a model with a removable die using a simple dowel pin technique.

**c- Professional and practical skills:**

c1. use the different instruments used in the field of prosthodontics.

c2 Carry out jacket crown reductions on anterior ivory teeth and its wax pattern.

c3 Perform full metal veneer crown, veneered crown and all ceramic crown reductions on ivory teeth and their wax pattern .

**d-General and transferable skills:**

d1. Display appropriate professional attitudes and behavior towards colleagues and supervisors.

d2. Set up effective and collaborative communication with other departments

d3. Diagnose time and set priorities

d4. Emphasize on the value of the teamwork through group assignments.

### 3- Contents:

<b>Topic</b>	<b>ILOS</b>	<b>lecturer</b>	<b>weighing</b>	<b>Online/face to face</b>	<b>Practical labs</b>
1. Classification	a1,b1	Dr. Ahmed Arafa	10	Face to Face	Demo full metal preparation
2. Instrument	a2,c4,d1	Dr. Ahmed Arafa	5	Face to Face	Practical labs
3. Principles of tooth preparation	a3,b2,c1	Dr. Mazen Attia	20	Face to Face	Practical labs
4. Full metal crown preparation.	a4,c2	Dr. Ahmed Arafa	10	Face to Face	Practical labs
5. All-ceramic crown preparation.	A5,c3	Dr. Ahmed Arafa	10	online	Demo all ceramic preparation
6. Veneered crown preparation.	A6,d2	Dr. Ahmed Arafa	10	Face to Face	Practical labs
7. Tissue dilatation.	A7,d3	Dr. Ahmed Arafa	5	Face to Face	Practical labs
8. Impression making.	B3,d1	Dr. Ahmed Arafa	10	Face to Face	Demo metal ceramic preparation
9. Dies & Cast materials & techniques .	B4,d1	Dr. Ahmed Arafa	10	online	Practical labs
10. Spruing	C1,d2	Dr. Ahmed Arafa	10	Face to Face	Practical labs
11. Investing	C2,d2	Dr.Mazen	10	Face to Face	Practical labs
12. casting of full metal restorations.	C3.d2	Dr. Ahmed Arafa	10	Face to Face	Practical exam

#### **4- Teaching and learning methods**

Small group discussion / Brain storming.	<b><u>Yes/No</u></b>
Interactive lecture	<b>YES</b>
Demonstrations.	<b>YES</b>
Research project	<b>YES</b>
Online sessions	<b>YES</b>
Online Activities	<b>YES</b>

#### **5- Student assessment methods (please select the assessment methods you use)**

a. Written and short answer question.	<b><u>Yes/No</u></b>
b. Written and long essay.	<b>Yes</b>
c. Multiple choice questions (MCQ)	Yes
d. True or false question with justifying answer.	Yes
e. Practical / OSPE.	Yes
f. Project work .	Yes
g. logbooks.	Yes
h. Online work	Yes

#### **Assessment schedule**

Assignment	2	W4	W8		
Midterm	1	W6			
Final Quiz	1	W10			30 marks

#### **Weighting of assessments**

	Written	Attendance	Practical	Oral Exam	Total
		Participation			
Final Exam	60	30	40	20	150

#### **- List of reference;**

1- Course notes

2- Essential books (textbooks)

A. Fundamental of tooth preparation. 4<sup>th</sup> edition 2020

B. Contemporary of fixed prosthodontics, 6<sup>th</sup> edition 2019

#### **Facilities required for teaching and learning**

1. Increase the no. of power supply in the labs

#### **Improvement**

**1. Enhance the lecture weight distribution according to student report.**

Course coordinator: Dr. Ahmed Arafa

Head of Department: Ass.Prof. Ahmed Ziada

Date: 10/2023