



Course Specification

University: **Beni-Suef** Faculty: **Dentistry**
Course Title: **Fixed Prosthodontics** Course code: **DFP 4/5**
Program on which the course is given **Bachelor's degree in Dentistry**
Department offering the course: **Fixed Prosthodontics Department**
Academic year: **3rd & 4th year 2023-2024**
Date of specification approval: **10/2023**

A- Basic Information

Academic Year:	2023-2024	
Course Code:	DFP 4 - DFP 5	
Course Theoretical (contact hours):	1	1
Practical (contact hours)	2	4
Total Hours: -	3	5
Prerequisite if any:		

B- Professional Information

1- Overall aims of course

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

- The course is continuous over the 3rd and 4th years.
- The course presents the clinical application of the skills acquired in the previous crown and bridge preclinical studies.
- The course trains the students to acquire and develop diagnosis and treatment planning skills.
- Allows the interaction between the dental student and the dental laboratory technician.
- Inform the students with the most advanced materials, techniques and treatment planning modalities.
- Introduce the students to implants as a prosthetic option for single and multiple teeth loss.

2- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

- a1. Identify the relative information required for proper diagnosis.
- a2. Identify the importance and diverse techniques of construction of temporary crowns.

- a3. Define pontics and list various shapes, types and indications.
- a4. Identify the different techniques of tissue retraction and their suitable condition of use.
- a5. List the different impression materials available and their special techniques of application different situations.
- a6-list impression Materials, techniques depending on their uses.
- a7. Diagnose the basic concepts of occlusion.
- a8. List the diverse bite registration materials present
- a9. Describe the techniques of endodontic post placement
- a10. Distinguish the possible bridge design that suits each clinical case.
- a11. List the different cement materials available and their uses and special techniques of application in different clinical situations.
- a12. Diagnose the criteria of checking the dental restoration during the try-in stage.
- a13. Identify the basic concepts of soldering and problems related to it.
- a14. List the indications of precision attachments and its different designs
- a15. Understand the principles of color perception.

b- Intellectual skills:

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

- b1. Analyze the collected data and recognize the relative information to determine patients' diagnosis.
- b2. Select the most suitable plan to be implemented for each case.
- b3. Relate data from different channels and analyze it to propose alternative treatment plans and propose them to the patient.
- b4. Correlate the gingival condition with the suitable retraction method and impression technique.
- b5. Analyze the causes of periodontal and biological complications
- b6. Distinguish the causes of fixed prosthetic failures
- b7. Decide the optimum sequence of mouth preparation

c- Professional and practical skills:

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

- c1. Practice adjustment of chair position for each quadrant in the mouth.
- c2. Apply all the options provided in the dental simulator unit.
- c3. Interpret potential abutments and assess the various factors affecting their selection for appropriate fixed prosthesis design.
- c4. Apply proper diagnosis and choose a treatment scheme with the correct sequence.
- c5. Apply alternative treatment modalities in an effort to select the most appropriate design suited for the individual patient.
- c6. Prepare single and multiple full coverage reductions on ivory teeth (anterior and posterior) with the correct path of insertion on dummy head.
- c7. Distinguish different impression materials and select the appropriate material for the specific case.
- c8. Take impression for the prepared ivory teeth on dummy head.

- c9. Fabricate temporary restorations on the dummy head to help protect reduced teeth and gradually transfer to permanent prosthesis.
- c10. Apply scientific principles of sterilization, disinfection and antisepsis.
- c11. Apply infection control measures.
- c12. Use biomedical information to analysis systemic conditions, manage and control them.
- c13. Practice basic teeth replacement in the clinic.
- c14. Choose the closest color to the shade guide and demonstrate this knowledge to the laboratory.
- c15. Solve minor surgical problems during clinical procedures ex, bleeding.
- c16. Check and verify try in and final prosthesis in vivo.

d- General and transferable skills:

- d1. Communicate effectively with other departments for proper diagnosis, pretreatment mouth preparations, and eventual follow up of the case.
- d2. Demonstrate appropriate professional attitudes and behaviors in different situations towards colleagues, and supervisors.
- d3. Develop the interaction between the dental student and the dental laboratory technician by collecting and transferring all the needed records for prosthesis construction.
- d4.** Set up effective and collaborative communication with other departments
- d5.** Communicate with the dental laboratory technicians and applied software
- d6.** Use verbal or written consent for patients prior to commencement of dental treatment
- d7.** Show full commitment and respect towards patients irrespective to their sex, race or religion
- d8.** Work accurately and confidently with the highest possible quality
- d9.** Shows transparency, honesty and sincerity to gain patient trust
- d10.** Act according to patient's interest by providing a sincere advice
- d11.** Shows sympathy and compassion when dealing with patient in pain

3- Contents:

3rd year

Topic	ILOS	lecturer	weighing	Online/face to face	Practical clinics
1.Diagnosis	a1,b1	Dr. Mohamed Mostafa	20	Face to Face	Demo posterior bridge preparation
2.Temporary	a2,c4,d1	Dr. Mohamed Mostafa	5	Face to Face	Demo impression
3.Pontic	a3,b2,c1	Dr. Mohamed Mostafa	10	Face to Face	Demo try in
4.Treatment plan	a4,c2	Dr. Mohamed Mostafa	10	Face to Face	Demo Delivery
5.Bite	A5,c3	Dr. Mohamed Mostafa	5	Online	Practical clinic
6.Bridge design	A6,d2	Dr. Mohamed Mostafa	10	Online	Practical clinic
7.Occlusion	A7,d3	Dr. Mohamed Mostafa	15	Face to Face	Practical clinic
8.Impression	B7,d1	Dr. Mohamed Mostafa	15	Face to Face	Practical clinic
9.precision attachment	B9,d1	Dr. Mazen Attia	5	Face to Face	Practical clinic
10.connector	C11,d2	Dr. Mazen Attia	5	Face to Face	Practical clinic
11. color	C2,d2	Dr. Mazen Attia	5	Face to Face	Practical clinic
12. Retainer	C9.d2	Dr. Mohamed Mostafa	5	Face to Face	Practical clinic
13. Tissue dilation	A11,b1	Dr. Mohamed Mostafa	5	Face to Face	Practical clinic
14.Partial coverage	A10,c4,d1	Dr. Mohamed Mostafa	5	Face to Face	Practical clinic

4th Year

Topic	ILOS	lecturer	weighing	Online/face to face	Practical clinics
1.Restoration of endodontically treated teeth	A6,b6	Dr. Ahmed Ziada	20	Face to Face	Demo post and core
2.Biological consideration	A7,c6,d7	Dr. Ahmed Ziada	5	Face to Face	Demo post and core
3.Periodontal consideration	A8,b8,	Dr. Ahmed Ziada	10	Face to Face	Practical clinic
4.Esthetics consideration	A9,c7	Dr. Ahmed Ziada	10	Online	Practical clinic
5.Implant supported restoration	A5,c3	Dr. Mazen Attia	5	Online	Practical clinic
6. Resin bonded	A6,d2	Dr. Mazen Attia	10	Face to Face	Practical clinic
7.Failure and repair	A7,d3	Dr. Ahmed Ziada	15	Face to Face	Practical clinic
8.Digital dentistry and Laser application	B3,d1	Dr. Ahmed Ziada	15	Face to Face	Practical clinic
9.care and maintenance	B4,d1	Dr. Ahmed Ziada	5	Face to Face	Practical clinic
10.All ceramic restoration	C1,d2	Dr. Ahmed Ziada	5	Face to Face	Practical clinic
11. laminate veneer	C2,d2	Dr. Ahmed Ziada	5	Face to Face	Practical clinic
12. cementation and bonding	C3.d2	Dr. Ahmed Ziada	5	Face to Face	Practical clinic

4- Teaching and learning methods

Small group discussion / Brain storming.	Yes/No
Interactive lecture	Yes
Demonstrations.	Yes
Research project	Yes
Online sessions	Yes
Online Activities	Yes

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

a. Written and short answer question.	<u>Yes/No</u>
b. Written and long essay.	Yes
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	No

4- Teaching and learning methods

a – Small group discussion / Brain storming.	<u>Yes</u>
b- Interactive lecture	<u>Yes</u>
c – Demonstrations.	<u>Yes</u>
d- Research project.	<u>No</u>

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

i. Written and short answer question.	<u>Yes</u>
j. Written and long essay.	<u>Yes</u>
k. Multiple choice questions (MCQ)	<u>Yes</u>
l. True or false question with justifying answer.	<u>Yes</u>
m. Practical / OSPE.	No
n. Project work .	No
o. logbooks.	<u>Yes</u>

Assessment schedule

Assignment. Quiz, midterm

3rd year

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

4th year

Assignment	2	W4	W8		
Quiz	2	W6	W14		
Midterm	1	W10			30 marks

Weighting of assessments

	Written	Practical	Attendance	Attendance	Oral Exam	Total
			Participation 3 rd year	Participation 4 th year		
Final Exam	120	60	60	30	30	300

List of reference;

1- Course notes

2- Essential books (text books)

A. Fundamental of tooth preparation : 4th edition 2020

B. Contemporary of fixed prosthodontics. 6th edition , 2019

C. Tooth Preparation 1st edition , 2021

Facilities required for teaching and learning

1. Data show at the labs

Course coordinator: Dr. Mohamed Mostafa Radwan

Head of Department: Ass.Prof. Ahmed Ziada

Date: 1 / 10 /2023