



Jordan University of Science and Technology
Faculty of Dentistry
Dental Surgery Department

DENT465 Fixed Prosthodontics

First Semester 2023-2024

Course Catalog

1 Credit Hours. This is a preclinical didactic course that introduces the basic fixed prosthodontic principles and techniques required to prepare teeth, to fabricate provisional restorations. It will also enable the student to learn the basic clinical and laboratory techniques necessary to fabricate definitive fixed prostheses. The topics covered include: ? treatment planning for crowns and bridges ? biomechanics and configurations of fixed partial dentures ? principles of tooth preparation ? preparation of full and partial coverage crowns ? provisional crowns and bridges ? impression procedures for fixed prosthodontics ? insertion and cementation procedures ? pontic and connector types ? restoration of extensively damaged teeth.

Text Book

Title	Fundamentals of Fixed Prosthodontics
Author(s)	Shillingburg, Herbert T., Jr.; Sather, David A.; Wilson, Edwin L., Jr.; Cain, Joseph R.; Mitchell, Donald L.; Blanco, Luis J.; and Kessler, James C.
Edition	4th Edition
Short Name	Ref. 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref. 2	Contemporary Fixed Prosthodontics	Stephen F. Rosenstiel, Martin F. Land and Junhei Fujimoto	5th Edition	

Instructor

Name	Dr. Esam Alem
Office Location	-
Office Hours	
Email	ealem@just.edu.jo

Class Schedule & Room

Section 1:
 Lecture Time: Mon : 11:30 - 12:30
 Room: NG76

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to the course and orientation	From Ref. 1 , From Ref. 2
Week 2	Introduction to the basics of fixed prosthodontics	From Ref. 1 , From Ref. 2
Week 3	Diagnosis and treatment planning of crowns and bridges - I	From Ref. 1 , From Ref. 2
Week 4	Diagnosis and treatment planning of crowns and bridges - II Biomechanics and configurations of fixed partial dentures	From Ref. 1 , From Ref. 2
Week 5	Principles of tooth preparation	From Ref. 1
Week 6	Preparation of full coverage crowns	From Ref. 1
Week 7	Preparation of full coverage crowns	From Ref. 1
Week 8	Provisional restorations	From Ref. 1
Week 9	Fluid control and soft tissue management	From Ref. 1
Week 10	Impression techniques and (brief workflow of) lab procedures	From Ref. 1
Week 11	Insertion and cementation procedures	From Ref. 1
Week 12	Pontics, Edentulous Ridges and Connectors	From Ref. 1
Week 13	Restoration of extensively damaged and endodontically treated teeth	From Ref. 1 , From Ref. 2

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Basics of fixed prosthodontics: Able to describe the various aspects of fixed prosthodontics	9%	
Principles of case assessment: Able to evaluate and select patients for crown and bridge treatment	9%	
Patient management: Comprehend and apply the role of fixed prosthodontics in comprehensive treatment planning. Provide a treatment plan for patients seeking fixed prosthodontic treatment	9%	
Tooth preparation principles: Able to describe the principles and procedures involved in tooth preparation for partial/full coverage and intracoronar/extracoronar fixed restorations	9%	
Recording impressions for fixed restorations: Able to describe the basic principles, materials and processes used to make impressions for fixed restorations	8%	
Temporization/provisionalization and protection of prepared teeth: Able to describe the principles and procedures involved in the fabrication of provisional/temporary fixed restorations.	8%	
Practical Laboratory Procedures: Able to describe the basic principles, materials and processes of the laboratory procedures involved in manufacturing of definitive metal, porcelain, and metal/ceramic fixed restorations (briefly)	8%	
Fitting and cementation procedures: Able to describe the basic principles, materials and procedures for fitting and cementation of fixed restorations	8%	
Biological implications of fixed restorations: Able to describe the basic principles of pontic design and its relationship to the edentulous ridge for sound oral hygiene and gingival health	8%	
Troubleshooting Able to identify failures and methods of repair	8%	
Extensively damaged tooth management: Have a working knowledge on how to manage the restoration of extensively damaged and endodontically treated teeth	8%	
Dental materials science in fixed restorative dentistry: Have a working knowledge of the main materials that are used in fixed prosthodontics	8%	

Relationship to Program													
1. Knowledge	1. Knowledge	1. Knowledge	1. Knowledge	1. Knowledge	2. Cognitive	2. Cognitive	2. Cognitive	2. Cognitive	2. Cognitive	2. Cognitive	2. Cognitive	3. Psychomotor/manual	3. Psychomotor/man

Evaluation	
Assessment Tool	Weight
Midterm Examination	40%
Final Exam	60%

Policy	
Professionalism	<ul style="list-style-type: none"> - Cross violations of the formal codes are governed by University laws, which delineate the procedures to determine whether a violation of the code of ethics occurred and, if so, what remedies should be imposed. - Students are expected to interact with colleagues and staff in a manner which befits a professional who is training to be a dental professional. - Any difficulty or concern during the course should be passed on directly to the course coordinator.
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete examinations require approval of the Dean's Office
Makeup exams	Applicable when an acceptable and valid excuse is presented at the appropriate time.
Cheating	<ul style="list-style-type: none"> - Unethical and illegal under any circumstances - JUST regulations will be applied
Attendance	Students are expected to attend all lectures. A formal excuse is required for absences up to 20% of lectures. Absences that exceed 20% will disallow students from attending final exam.
Participation	All students are highly encouraged to participate in the classes and online.
Students with special needs	<ul style="list-style-type: none"> - Any student who feels that s/he may need accommodation for any type of disability is encouraged to contact the course coordinator who will be happy to help in any way. - Accommodations to the course plan can be tailored to the needs of specific individuals after consultations with the Faculty of Dentistry administration.
Individual conferencing	The course coordinator is always available to talk with students. If a student has any problem that requires immediate attention, the course coordinator can be contacted after office hours and an appointment can be made.
Course changes	<ul style="list-style-type: none"> - Information contained in this course outline is correct at the time of publication. - Content of the courses is revised on an ongoing basis to ensure relevance to changing educational circumstances. - The course coordinator reserves the right to add or delete material from courses and will endeavor to provide notice of changes to students as soon as possible. - The timetable may also be revised accommodating to holidays and unexpected scheduling changes.

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