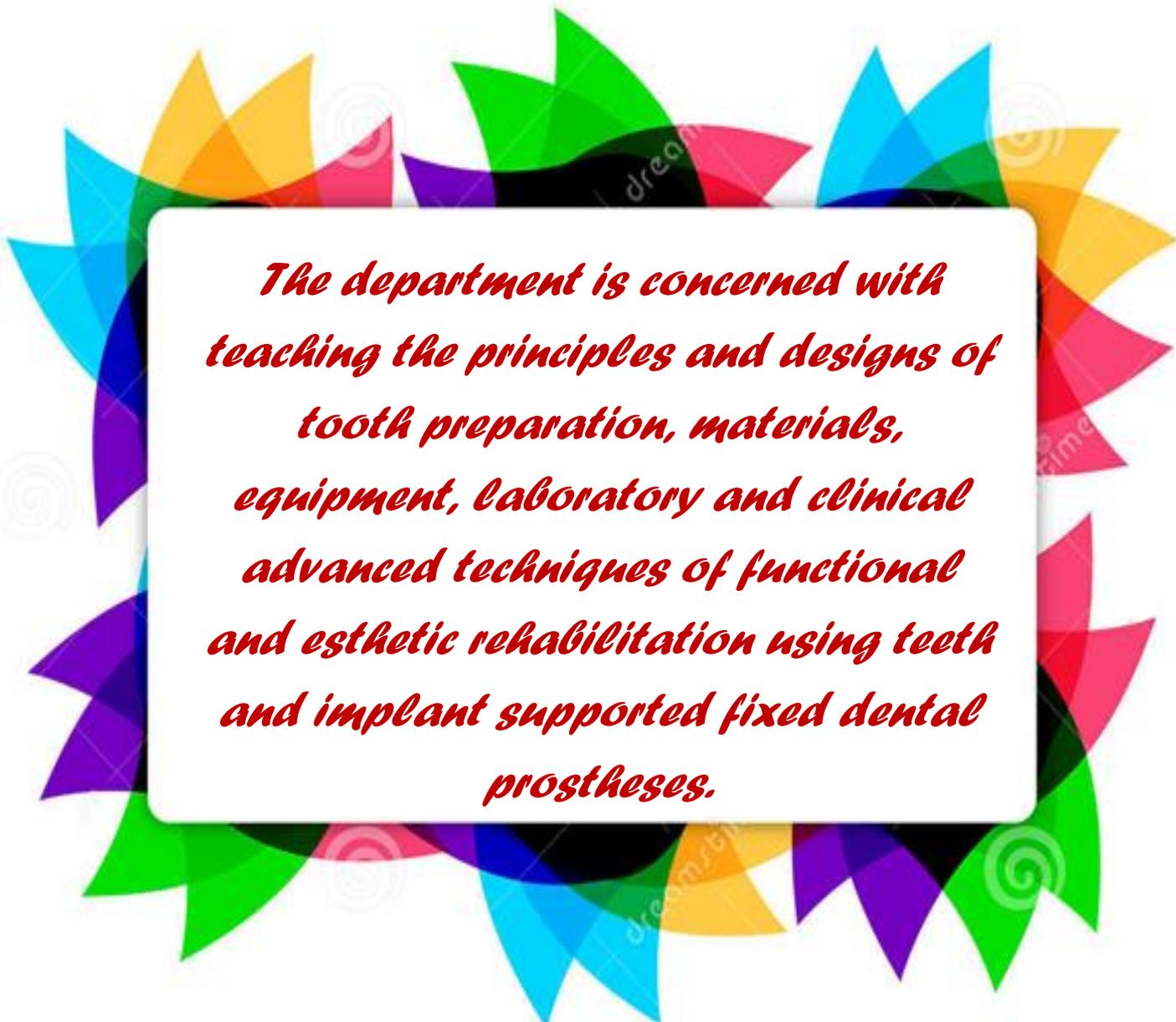
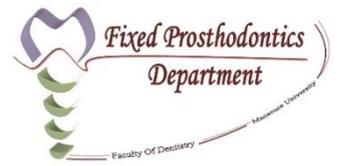


Student's Guide



The department is concerned with teaching the principles and designs of tooth preparation, materials, equipment, laboratory and clinical advanced techniques of functional and esthetic rehabilitation using teeth and implant supported fixed dental prostheses.

Staff Members



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Manal Mohamed Abo-Madina	Professor	
Amal Abdelsamad Sakrana	Professor	
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Curriculum

Third year	Fourth year	Fifth Year
Terminology and classification	Partial coverage fixed dental prostheses	Diagnosis&treatment planning for fixed dental prostheses
Instruments and equipment	Treatment of Endodontically treated teeth	Checking and verification
Principles of tooth preparation	Connectors	Mouth preparation
Quiz 1	Quiz 1	Quiz 1
Tooth preparation for Complete Cast restoration	Pontic Design	Biological aspects of fixed dental prostheses
Tooth preparation for All Ceramic restoration	Color science and shade selection	Retainers for fixed dental prostheses
Tooth preparation for Metal-ceramic restoration	Principles of Occlusion	Esthetic considerations
Quiz 2	Quiz 2	Quiz 2
Definitive casts and dies	Provisional restoration	All-ceramic restorations
Wax pattern	Tissue management	Laminate veneers
Spruing	Impression materials and techniques	Resin-bonded fixed dental prostheses
Quiz 3	Quiz 3	Quiz 3
Investing	Fixed prosthodontic designs	Implant supported fixed dental prostheses
Casting alloys, techniques and finishing	Metal-ceramic restoration	Luting cements and cementation procedures
Casting Defects	Laser in fixed prosthodontics	Failure and repair of fixed dental prostheses

Course goals for the 3rd year students

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

- ✚ Perform different tooth preparation designs for complete coverage crowns.
- ✚ Perform a laboratory construction of different techniques for definitive casts and dies.
- ✚ Perform a laboratory work for complete coverage metal crown waxing-up procedure.
- ✚ Describe different types of investment materials and techniques.
- ✚ Describe different techniques for alloy melting and casting.

General rules and regulations for the 3rd year students

- ✚ The student should follow the instructions of the supervisors.
- ✚ White coats must be worn in practical sessions.
- ✚ Mobile phones are not allowed in practical sessions.
- ✚ The Lab should be kept clean after use "each student is responsible for his/her unit".
- ✚ The students should follow the safety and infection control rules.
- ✚ For the students in emergency conditions; the maximum time for delay per month is 10 minutes in regular clinics or 20 minutes in early morning clinics (8:00 am).

Teaching week hours		Total	Exam papers	Time allowed
Theoretical	Practical			
1	4	5	1	3

Quiz & Requirements	Practical	Oral	Paper	Total
20	40	20	70	150

Preclinical practical sessions schedule for the 3rd year students

	Topic	Requirements	
		Natural	Acrylic
1	Terminology & classification.		
2	Instruments, equipment and steps of fabrication of metallic restoration		
3	Principles of tooth preparations		
4	Preparation for full-metal crown <i>Practical demonstration on molar tooth</i>	1	2
5	Preparation for all-ceramic crown <i>Practical demonstration on anterior tooth</i>	1	2
6	Preparation for metal-ceramic crown <i>Practical demonstration on premolar tooth</i>	1	2
7	Definitive casts& dies <i>Practical demonstration on working models with two prepared anterior & posterior teeth.</i>	<u>One</u> model with anterior and posterior prepared removable dies	
8	Wax pattern for full metal crown <i>Practical demonstration on wax pattern for anterior & posterior teeth.</i>	<u>One</u> model with 3 posterior wax patterns	
9	Spruing <i>Practical demonstration on spruing for anterior & posterior wax patterns.</i>		
10	Investing <i>Practical demonstration</i>		
11	Casting <i>Practical demonstration</i>		

Course goals for the 4th year students

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

- ✚ Perform different tooth preparation designs for partial coverage anterior and posterior 3/4 crowns.
- ✚ Perform Preparation for complete coverage metal ceramic crown on a patient.

General rules and regulations for the 4th year students

- ✚ The student should follow the instructions of the supervisors.
- ✚ White coats must be worn in practical sessions.
- ✚ Mobile phones are not allowed in practical sessions.
- ✚ The Lab should be kept clean after use "each student is responsible for his/her unit".
- ✚ The students should follow the safety and infection control rules.
- ✚ For the students in emergency conditions; the maximum time for delay per month is 10 minutes in regular clinics or 20 minutes in early morning clinics (8:00 am).

Teaching week hours		Total	Exam papers	Time allowed
Theoretical	Practical			
1	2	3	1	3

Quiz & Requirements	Practical	Oral	Paper	Total
15	20	15	50	100

Practical sessions schedule for the 4th year students

Preclinical sessions

	Topic	Requirements	
		Natural	Acrylic
1	Introduction to partial coverage restoration		
2	Preparation for posterior 3/4 restoration <i>Practical demonstration on premolar tooth</i>	1	2
3	Preparation for anterior 3/4 restoration <i>Practical demonstration on anterior tooth</i>	1	2

Clinical sessions

	Topic	Requirements
1	Preparation for complete coverage crown <i>Practical demonstration</i>	<p>One anterior or posterior complete coverage metal ceramic restoration is required for each student.</p> <p><i>"Signed sheets should be submitted on due"</i></p>
2	Impression for complete coverage crown preparation <i>Practical demonstration</i>	
3	Try in for metal framework <i>Practical demonstration</i>	
4	Cementation <i>Practical demonstration</i>	

General rules and regulations for the 5th year students

- ✚ The student should follow the instructions of the supervisors.
- ✚ It is not allowed to the student to start patient's treatment without prior approval from the supervisors.
- ✚ The students should follow the safety and infection control rules.
- ✚ It is not allowed for students to be shown outside the clinics wearing masks or gloves.
- ✚ For the students in emergency conditions; the maximum time for delay per month is 10 minutes in regular clinics or 20 minutes in early morning clinics (8:00 am).
- ✚ In every session; the student should bring patient's diagnostic cast, radiograph and detailed diagnostic sheet.
- ✚ The clinic should be kept clean after use "each student is responsible for his/her unit".

General Guidelines

1	Diagnostic sheet is required for each patient.
2	Shade selection is performed during diagnostic and treatment plan visit and before starting treatment.
3	Two primary alginate impressions are required; one for diagnostic cast and other for preparing indirect/direct provisional fixed dental prostheses.
4	Two students will share in one bridge either anterior or posterior. Each student will be responsible for one abutment.
5	Final impression will be made with additional silicon rubber base impression materials (putty wash technique).
6	Signed sheets should be submitted on due.

Clinical sessions

Topic		Requirements
1	Chair positions , infection control strategies <i>Practical demonstration</i>	<ul style="list-style-type: none"> • <i>Two anterior or posterior bridges "shared with partner".</i> • <i>Single crown or post and core "for each student individually".</i> <p><i>"Diagnostic sheet is required for each patient with radiographs "</i></p>
2	Patient diagnosis , treatment planning formulation <i>Practical demonstration</i>	
3	Preparation for abutment teeth <i>Practical demonstration</i>	
4	Impression for prepared abutments <i>Practical demonstration</i>	
5	Try in for metal framework <i>Practical demonstration</i>	
6	Ceramic try in <i>Practical demonstration</i>	
7	Cementation <i>Practical demonstration</i>	

Teaching week hours		Total	Exam papers	Time allowed
Theoretical	Practical			
1	4	5	1	3

Quiz & Requirements	Clinical	Oral	Paper	Total
25	40	25	60	150

Template for requirement sheet

Pt Name		Age		Radiographs
Diagnosis		← Refer to missing teeth and abutments		
Treatment Plan		Shade		
Student 1		Sec		
Student 2		Sec		
Supervisor		Date	/ /201	

Preparation	Student 1 Abutment	Student 2 Abutment
<i>Occlusal</i>		
<i>Buccal</i>		
<i>Lingual</i>		
<i>Mesial</i>		
<i>Distal</i>		
<i>Finishing</i>		
<i>Comments</i>		

Provisional restoration (/ / 20)	Stud 1 Abutment	Stud 2 Abutment

Impression (/ / 20)	
Heavy body	
Light body	
Metal Try in (/ / 20)	
Ready For insertion (/ / 20)	

Insertion (/ / 20)	Mark
Supervisor	