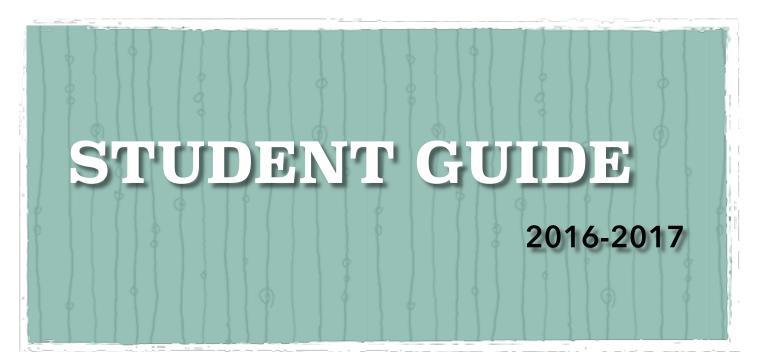


DEPARTMENT









The Dental Biomaterials course focuses on introducing students to different dental materials, used in the general practice of dentistry, with regards to their composition, properties and manipulation. It helps them understand why materials behave the way they do in the oral cavity so that they can properly select and manipulate the dental material suitable for each treatment situation.

Aims of the course:

- 1. To introduce students to the basic concepts of the science of Dental Biomaterials.
- 2. To familiarize the students with materials used in dentistry
- 3. To analyze physico-mechanical properties and microstructures of dental materials.
- 4. Make the students aware of biohazards associated with some dental materials.
- 5. To analyze causes of failure of the materials in the oral cavity.
- 6. To teach different ways of improving dental materials.
- 7. Discuss methods of manipulation of different dental materials.

Staff Members

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Marwa Hany



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Curriculum

Subject	Time of lecture	Staff member		
Introduction to dental biomaterials	st 1	Dr Essam Al-Wakeel		
Types of bonds & crystal structures	1 st week	Dr Salwa El-Negoly		
Physical properties	2 nd week	Dr Salma Fathy		
Adhesion		Dr El-Sayed Abd El-Hafez		
Mechanical properties	3 rd week	Dr Reham Mohammed		
Surface mechanical properties	th 1	Dr Hagag Atya		
Time dependent properties	4 th week	Dr Manal Farouk		
General Classes of Biomaterials	5 th week	Dr Noha El-Wassefy		
Failure of materials	_th 1	Dr Hagag Atya		
Impression materials	6 th week	Dr El-Sayed Ghorab		
Impression materials	7^{th} & 8^{th} week	Dr El-Sayed Ghorab		
Model & die materials	9 th week	Dr Hagag Atya		
Dental waxes	y week	Dr Salma Fathy		
Assessment				
Acrylic resin	11 th week	Dr Manal Farouk		
Soft lining and artificial	12 th week	Dr Salwa El-Negoly		

Z.O.E cement and pulp capping material	12 th week	Dr Noha El-Wassefy		
Zn Polycarboxylate, glass ionomer,	13 th week	Dr Noha El-Wassefy		
Zn phosphate and resin cements	14 th week	Dr Noha El-Wassefy		
Dental amalgam	15 th week	Dr Manal Farouk		
Bonding agents	16 th week	Dr El-Sayed Ghorab		
Composite resin	17 th week	Dr El-Sayed Abd El-Hafez		
Recent advances of composite	18 th week	Dr. El-Sayed Abd El-Hafez		
Assessment				
Casting investments	20 th week	Dr Neven Saad		
Noble and base metal casting alloys	21 st week	Dr Salwa El-Negoly		
<i>Casting techniques and defects</i>	22 nd week	Dr Hagag Atya		
Wrought alloys		Dr Neven Saad		
Endodontic materials	23 rd week	Dr Neven Saad		
Dental porcelain	24 th week	Dr Reham Mohammed		
Ceramo-metallic restorations	25 th week	Dr Reham Mohammed		
All-ceramic restorations	26 th week	Dr Reham Mohammed		
Dental implants	27 th week	Dr Salma Fathy		
Nanotechnology	$28^{th} \mathcal{E} 29^{th}$ week	Dr Dina Samy		
Tissue engineering	30 th week	Dr Salwa El-Negoly		

Teaching hours per week		
Theoretical	Practical	
2 hours	2 hours	

• Evaluation Methods:

Assessment Policy	Weight
Final Exam (written)	100 Marks
Oral Exam	25 Marks
Course work; Quizzes (15), participation(5) and behavior (5)	25 Marks

• Student Books:

Dental Materials (basic and applied sciences), 3rded., 2016 Dental Biomaterials Department.

• Helpful Textbooks:

- 1. Craig's Restorative Dental Materials.
- 2. Phillip's Science of Dental Materials.
- 3. Applied Dental Materials (McCabe).

• General rules and regulations:

- 1. The student should follow the instructions of the supervisors.
- 2. White coats must be worn in practical sessions.
- 3. Mobile phones are not allowed in practical sessions.
- 4. The Lab should be kept clean after each practical session.

Staff member Sunday Monday Tuesday Wednesday Thursday Dr Manal 10-12 11-1 Farouk **Dr El-Sayed** 10-12 10-12 Abd El-Hafez Dr Salwa 10-12 10-12 **El-Negoly** Dr Reham 10-12 10-12 Mohammed Dr Noha 10.5-12.5 10-12 **El-Wassefy** Dr Neven Saad 10-12 10-12 **Dr El-Sayed** 10-12 10-12 Ghorab Dr Salma 10-12 10-12 Fathy Dr Hagag Atya 10-12 10-12 Dr Dina Samy 10-12 10-12

• Office hours for staff members of the department