

1. Course Name: Dental Material					
2. Course Code: 50203211					
3. Semester / Year:2025/2026 annual					
4. Description Preparation Date:					
5. Available Attendance Forms: weekly					
6. Number of Credit Hours (Total) / Number of Units (Total) 60 hours theoretical + 30 hours laboratory					
7. Course administrator's name (mention all, if more than one name) name : assistant lecturer sarah.j.ali E-mail sarah.jassim@muc.edi.iq					
8. Course Objectives					
Course Objectives	The course aims to provide students with a solid understanding of the properties, indications, handling, and clinical applications of dental materials				
9. Teaching and Learning Strategies					
Strategy	The course combines lectures for foundational knowledge, laboratory demonstrations of material handling, and case-based learning to connect theory with clinical practice. supported by digital learning tools and continuous feedback to enhance understanding and skill development.				
1. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1 hour Th. 2 hours lab.	Dental materials Introduction and Definitions	Dental materials: Introduction and Definitions	Lecture (power point)	Weekly quiz
2	1 hour Th. 2 hours lab.	General properties of dental materials (physical & biological)	General properties of dental material	Lecture (power point)	Weekly quiz
3	1 hour Th. 2 hours lab	Mechanical Properties	Mechanical Properties	Lecture (power point)	Weekly quiz
4	1 hour Th. 2 hours lab	Gypsum product application, production,	Gypsum product	Lecture (power point)	Weekly quiz

		reaction, and use methods			
5	1 hour Th. 2 hours lab	Gypsum product	Gypsum product (time & properties)	Lecture (power point)	Weekly quiz
6	1 hour Th. 2 hours lab	Impression material (alginate and Agar)	Impression material	Lecture (power point)	Weekly quiz
7	1 hour Th. 2 hours lab	Zinc oxide eugenol primary impression material	Rigid impression material	Lecture (power point)	Weekly quiz
8	1 hour Th. 2 hours lab	elastic impression material	Polysulfide	Lecture (power point)	Weekly quiz
9	1 hour Th. 2 hours lab	elastic impression material	Silicon	Lecture (power point)	Weekly quiz
10	1 hour Th. 2 hours lab	wax	Types, properties, uses	Lecture (power point)	Weekly quiz
11	1 hour Th. 2 hours lab	Gypsum product for casting	Gypsum product for casting	Lecture (power point)	Weekly quiz
12	1 hour Th. 2 hours lab	Gypsum product for casting	Gypsum product for casting	Lecture (power point)	Weekly quiz
13	1 hour Th. 2 hours lab	Cold cure Acrylic	Polymers	Lecture (power point)	Weekly quiz
14	1 hour Th. 2 hours lab	Polymerization (denture base, types, and properties)	Heat cure acrylic	Lecture (power point)	Weekly quiz
15	1 hour Th. 2 hours lab	Polymerization (composition & uses)	Components and uses	Lecture (power point)	Weekly quiz
16	1 hour Th. 2 hours lab	Polymerization (composition & uses)	Components and uses	Lecture (power point)	Weekly quiz
17	1 hour Th. 2 hours lab	Light cure acrylic polymerization	Other Types of acrylic	Lecture (power point)	Weekly quiz
18	1 hour Th. 2 hours lab	Metal and alloys (application, composition)	Metal and alloys	Lecture (power point)	Weekly quiz
19	1 hour Th. 2 hours lab	Metal and alloys (Advantages and disadvantages)	Metal and alloys	Lecture (power point)	Weekly quiz
20	1 hour Th. 2 hours lab	Temporary filling material (Properties & composition)	temporary filling material	Lecture (power point)	Weekly quiz

21	1 hour Th. 2 hours lab	Components of light cure filling materials	Composite	Lecture (power point)	Weekly quiz
22	1 hour Th. 2 hours lab	Lining material teeth fillings (Chemical composition, classifications, reaction, properties)	Zinc oxide, zinc phosphate	Lecture (power point)	Weekly quiz
23	1 hour Th. 2 hours lab	Lining material (advantages and disadvantages)	Polycarboxylate	Lecture (power point)	Weekly quiz
24	1 hour Th. 2 hours lab	Amalgam filling (Classifications, composition and properties)	Amalgam filling	Lecture (power point)	Weekly quiz
25	1 hour Th. 2 hours lab	Amalgam (Uses and applications)	Amalgam filling	Lecture (power point)	Weekly quiz
26	1 hour Th. 2 hours lab	Types, uses, indication and contraindication		Lecture (power point)	Weekly quiz
27	1 hour Th. 2 hours lab	acrylic and porcelain) Abrasive material, polishing and finishing, denture relining toothpaste, denture cleansers	Artificial teeth, Abrasive material, polishing and finishing, denture relining toothpaste, denture cleansers	Lecture (power point)	Weekly quiz
28	1 hour Th. 2 hours lab	Implant Material	Implant Material	Lecture (power point)	Weekly quiz
29	1 hour Th. 2 hours lab			Lecture (power point)	Weekly quiz
30	1 hour Th. 2 hours lab	Maxillofacial Material	Maxillofacial Material	Lecture (power point)	Weekly quiz

2. Course Evaluation

3. Learning and Teaching Resources

Required textbooks (curricular books any)	1. Craig's restorative dental materials. 2. Philips dental materials
Main references (sources)	1- الحلقة النقاشية 2- المكتبة الافتراضية
Recommended books and references (scientific journals, reports...)	1. Journal of prosthetic dentistry. 2. Journal of IDA
Electronic References, Websites	المكتبة الافتراضية

Course Description Form

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