



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Allied Dental Sciences Department

ADS224 Dental Materials Lab - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

1 Credit Hours. This course is designed to the undergraduate students at the 2nd year and it is a one credit hour practical course which enables the second year students to be introduced, to examine and be able to differentiate between the different types of dental materials used in dental practice. This course is also linked to a theoretical course (ADS 222) which provides introduction, knowledge and understanding of the dental materials commonly used in dental practice which may require use by the dental assistant and dental hygienist.

Teaching Method: On Campus

Text Book

Title	Clinical Aspects of Dental Materials
Author(s)	Bagby M. & Gladwin M.,
Edition	5th Edition
Short Name	Clinical Dental Materials
Other Information	

Instructor

Name	Mrs. Zain Malkawi
Office Location	Faculty of Applied Medical Sciences/Second Floor
Office Hours	Sun : 09:00 - 11:00 Mon : 08:30 - 10:30 Wed : 12:15 - 14:15 Thu : 10:30 - 11:00
Email	malkawiz@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Tue : 08:30 - 10:30
Room: LAB

Section 2:
Lecture Time: Tue : 10:30 - 12:30
Room: LAB

Section 3:
Lecture Time: Tue : 12:30 - 14:30
Room: LAB

Section 4:
Lecture Time: Tue : 14:30 - 16:30
Room: LAB

Section 5:
Lecture Time: Thu : 08:30 - 10:30
Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Course Orientation	
Week 2	Impression Materials Part I	
Week 3	Impression Materials Part II	
Week 4	Waxes	
Week 5	Gypsum	
Week 6	Metal alloys Quiz #1 (10%) (Labs from week 2 to Week 5)	
Week 7	Holiday Happy Eid...!!	
Week 8	Ceramics	
Week 9	Amalgam	
Week 10	Mid Term Exam	
Week 11	Polymers	
Week 12	Composites And Bonding agent, pit and fissure sealant	
Week 13	Cements Glass Inomer Quiz 2 20% (Two labs after mid)?Week 11 an 12	
Week 14	Adhesives Polishing materials and Abrasives	
Week 15	Final Practical Exam	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Differentiate between the elastomeric impression materials and inelastic impression materials [3PLO 3, 3PLO 5, 2PLO 8, 2PLO 9] [4L7K1, 3L7S2, 3L7S3]	10%	
Be familiar with the different types of metal alloys used in the dental practice [2PLO 3, 3PLO 5, 3PLO 8, 2PLO 9] [5L7S2, 3L7C1, 2L7C2]	10%	
Determine the indications and selection of various restorative materials such amalgam, ceramics and composite materials [2PLO 3, 3PLO 5, 3PLO 8, 2PLO 9] [5L7S3, 5L7C3]	10%	
Utilize safety procedures needed in the use of different dental materials [4PLO 2, 2PLO 4, 4PLO 5] [4L7S2, 3L7S3, 3L7C3]	10%	
Differentiate between the different types of dental cements, the indications and contraindications to use each one of them [3PLO 2, 3PLO 4, 6PLO 5] [5L7K1, 5L7C1]	10%	
Differentiate main components and uses of acrylic resin, glass ionomers, sealants and chemical agents for tooth bleaching. [5PLO 2, 2PLO 4, 3PLO 5] [6L7C2, 4L7C3]	10%	
Recognize different types of oral appliances and specialty dental materials that used in dentistry [4PLO 2, 6PLO 5] [1L7K1, 4L7S3, 4L7C2, 1L7C4]	10%	
Recognize the various formulations of gypsum products [2PLO 6, 3PLO 7, 5PLO 10] [5L7S3, 5L7C2]	10%	
Identify different dental waxes used in dental practice. [5PLO 7, 5PLO 10] [6L7S3, 4L7C2]	10%	
To be able to differentiate between different polishing agents and their specific indications in dental use. [4PLO 6, 6PLO 10] [5L7S1, 5L7C2]	10%	

Relationship to Program Student Outcomes (Out of 100%)									
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
	15.5	7	6.5	27	6	8	8	6	16

Relationship to NQF Outcomes (Out of 100%)							
L7K1	L7S1	L7S2	L7S3	L7C1	L7C2	L7C3	L7C4
10	5	12	26	8	26	12	1

Policy	
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.

Cheating	University regulations will be applied on cases of cheating and/or plagiarism
Cell phone:	The use of cellular phone is prohibited in class rooms and during exams. The cellular phone must be switched off in class rooms and during exams.
Attendance	No points will be count for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes!
Absences:	University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details)
Make-Up-Exam	Make-up exams is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details)
FeedBack	Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours

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