

**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Department of Applied Dental Sciences**  
**First Semester 2008**  
**Course syllabus**

<b>Course Information</b>	
<b>Course Title</b>	Principles of dental technology
<b>Course Number</b>	TDEN213
<b>Prerequisites</b>	ADS203 or co requisite
<b>Course Website</b>	
<b>Instructor</b>	Dr. Arwa Owais
<b>Office Location</b>	Faculty of Applied Medical Sciences
<b>Office Phone</b>	02-7201000 extension 23847
<b>Office Hours</b>	
<b>E-mail</b>	aowais@just.edu.jo
<b>Teaching Assistant</b>	Supervisors of dental technology laboratory
<b>Course Description</b>	
<p>. This 2 credit hours course (1 theoretical and 1 practical) is designed to provide the under-graduate dental technology students with the basic technical knowledge and skills to fabricate casts, custom-made impression trays, temporary and permanent denture bases, and occlusal rims for partially dentate and edentulous cases along with a theoretical background relevant to technical and clinical aspects of the types of appliances named below</p>	

<b>Text Book</b>	
<b>Title</b>	Dental laboratory technology (prosthodontic technique )
<b>Author(s)</b>	JOHN B. SOWTER
<b>Publisher</b>	
<b>Year</b>	1971
<b>Edition</b>	Edition 1
<b>Book Website</b>	
<b>References</b>	Handouts and related articles will be distributed throughout the course

<b>Assessment Policy</b>		
<b>Assessment Type</b>	<b>Expected Due Date</b>	<b>Weight</b>
<b>First Exam</b>	Week 6	15%
<b>Second Exam</b>	Week 12	15%
<b>Final Exam</b>	Week 16	40%
<b>Assignments</b>	Continuous Assessment	30%
<b>Participation</b>		5%
<b>Attendance</b>		5%

<b>Course Objectives</b>	<b>Weights</b>
1. to develop practical competence, skill and safe working practice in a range of basic laboratory techniques	10%
2. to understand the principles and concepts involved in dental technology	30%
3. to cover the principles of cast production techniques and introduces particular mounting systems.	30%
4 to provide an understanding of the requirements of custom-made impression trays, the formation of temporary and permanent denture bases, and occlusal rims for partially dentate and edentulous cases.	30%

<b>Teaching &amp; Learning Methods</b>
Students are expected to attend one hour lecture to be able to understand general principles and terminology of dental technology and attend three hours lab session during which a demonstration will be given for 30 minutes followed by individual supervised lab session

<b>Learning Outcomes:</b> Upon successful completion of this course, students will be able to		
Related Objective(s)		Reference(s)
1, 2	Be familiar with the instruments and materials used in dental technology in general	Text Book I
3	Differentiate between primary and secondary impressions and the materials used in them	Text Book I
2, 4	Differentiate between custom and stock trays	Text Book I
3	Pour primary and secondary impressions	Text Book I
1,2	Deal with wax	Handout
4	Fabricate special trays	Text Book I
4	Fabricate base plates and occlusal rims	Text Book I

#### **Useful Resources**

<http://www.ada.com>

**Course Content (Theory )**

<b>Week</b>	<b>Topics</b>	<b>Chapter in Textbook (handouts)</b>
1	Introduction to dental technology	Handout will be provided
2	Preliminary impressions	Chapter1
3	Safety rules in the lab	Handout will be provided
4	Study and working casts	Chapter 2
5	Stock & custom-made trays 1	Chapter 3
6	First exam	Study Hard
7	Stock and custom-made trays 2	Chapter 3
8	Record bases	Chapter 5
9	Occlusal rims	Chapter 5
10	Second exam	Study Hard
11	Waxes in dentistry	Handout will be provided
12	Articulators	Chapter 7 & Handouts
13	Forming and curing acrylic resins	Handout will be provided
14	Case presentation	Handouts
15	Revision	
16	Final Exam	Good Luck

<b>Course Content (Laboratory )</b>		
<b>Week</b>	<b>Topics</b>	<b>Chapter in Textbook (handouts)</b>
1	Introduction to dental technology lab	Handout
2	Pouring of impression & cast preparation I	Chapter 2
3	Pouring of impression & cast preparation II	Chapter 2
4	Construction of custom-made tray 1	Chapter 3
5	Construction of custom-made tray 2	Chapter 3
6	Construction of custom-made tray 3	Chapter 3
7	Construction of base plate (shellac)	Chapter 5
8	Construction of base plate (acrylic)I	Chapter 5
9	Construction of base plate (acrylic)2	Chapter 5
10	Dealing with wax I	Handout
11	Dealing with wax II	Handout
12	Construction of occlusal rims 1	Chapter 6
13	Construction of occlusal rims 2	Chapter 6
14	Catch-Up session	
15	Final Practical Exam	

<b>Additional Notes</b>	
<p>Student is expected to attend 90% of the lectures and lab sessions and JUST policy requires the faculty member to assign ZERO grade (35) if a student misses 10% of the classes without an excuse</p> <p>Sign in sheet will be distributed at the beginning of the lecture</p> <p>Questions are welcome during lecture</p> <p>Making any kind of disturbance and (side-talks) will affect you negatively</p> <p>Cheating during exam will result in dismissal from the exam hall and the student will be penalized according to JUST regulations</p>	

Flexibility: Dental laboratory technology is a flexible career offering several opportunities for advancement. Experienced technicians can find well-paid positions in commercial laboratories based on their technical or communication skills, become department heads in larger laboratories where they would have supervisory responsibilities, or potentially own their own laboratory. Creativity: Dental laboratory technology requires the skill and touch of an artist. Technicians need to be creative when they make prostheses. Security: The services performed by dental technicians will always be needed. Prosthodontic Solution Dental Lab, Mumabi.. Miraraod. 568 likes 4 talking about this. Company. See more of Prosthodontic Solution Dental Lab on Facebook. Log In. or. Create New Account. See more of Prosthodontic Solution Dental Lab on Facebook. Log In. Forgotten account?