

Oral Histology

This course description provides a summary of the most important course characteristics and the learning outcomes the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description..

1- Educational institution	Al-Ayen Iraqi University / College of Medical and Health Technologies
2- Scientific department/center	Department of Prosthodontics
3- Course name/code	Oral Histology
4-Name of the lecturer(s).	Dr. Hakeem Ghani Hassan
5-Available forms of attendance	Theoretical and practical
6-Semester/year	1 st semester/2 nd stage
7-Number of study hours (total)	30 hours
8-The date this description was prepared	2023-10-15
9- Course objectives	
Basics of human embryology Development and appearance of oral tissues and teeth Identify all tissues of the mouth and teeth.	

10. Course outcomes and teaching, learning and evaluation methods

- Cognitive objectives

- 1-Learn how a human being develops from a fertilized egg to a complete embryo
- 2- Identify how the parts of the face, jaws and skull are organized
- 3- Identify the formation of oral tissues and teeth
- 4: Identify the properties and composition of oral and dental tissues

B - The skills objectives of the course. B1 - Methods of obtaining tissue samples for microscopic examination B2 - Gain experience in reading histological slides B3 - Clinical treatment of all living oral tissues and teeth
Teaching and learning methods
Using PowerPoint (practical and theoretical) Using tissue slides
Evaluation methods
1-Daily exams (Quizez) 2-Monthly exams 3-Reports preparation 4-Discussions in practice
C- Emotional and value goals C1- Acquiring scientific knowledge to deal with all types of living dental and oral tissues C2 Acquiring practical skills to deal with all types of dental and oral tissues

11. Course structure					
Evaluation method	Teaching method	Name of the unit/topic		hours	Week
Quizes	theoretical	Embryological development		2	the first
Quizes	theoretical	Development of face		2	the second
Quizes	theoretical	Development of oral cavity		2	the third
Quizes	theoretical	Development of teeth		2	the fourth
Quizes	theoretical	Amelogenesis		2	Fifth
Quizes	theoretical	Enamel structure		2	Sixth
Quizes	theoretical	Dentinogenesis		2	Seventh
Quizes	theoretical	Dentine structure		2	Eighth
Quizes	theoretical	Pulp		2	Ninth
Quizes	theoretical	Cementogenesis		2	Tenth
Quizes	theoretical	Cementum structure		2	Eleventh
Quizes	theoretical	Bone formation		2	Twelveth
Quizes	theoretical	Bone structure		2	Thirteenth
Quizes	theoretical	Periodontal ligament		2	Fourteenth
Quizes	theoretical	Oral mucosa		2	Fifteenth

12. Infrastructure	
Required prescribed books	Oral and maxillofacial pathology by Neville

Main references	
A- Recommended books and references (scientific journals, reports,)	Dental journals
B - Electronic references, Internet sites...	

13. Course development plan
Adding scientific discussions and cultural events and including them in future plans to increase knowledge and develop students' scientific skills

Dental Materials (Advanced 1)

This course description provides a summary of the most important course characteristics and the learning outcomes the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available. It must be linked to the program description.

1- Educational institution	Al-Ayen Iraqi University / College of Medical and Health Technologies
2- Scientific department/center	Department of Prosthodontics
3- Course name/code	Dental Materials
4-Name of the lecturer(s).	Associate professor Dr.ahmed Abdulrahman
5-Available forms of attendance	Theoretical and practical
6-Semester/year	1st semester/2 nd year
7-Number of study hours (total)	150 hours
8-The date this description was prepared	2024
9- Course objectives	
Classification of different treatment plans for the partially edentulous cases and fabrication of the Acrylic partial dentures	

A- Cognitive objectives A1- Introducing the student Dental Materials A2- Introducing the student to the diagnosis and classification of partially edentulous cases. A3- treatment planning for the different partially edentulous cases A4- knowing the basic steps of Acrylic partial denture fabrication .
B - The skills objectives of the course. B1 Gaining the correct experience in dealing with the partially edentulous cases B2 - How to develop correct treatment plans B3 - Mastering all steps of the fabrication of the partial dentures B4 fabrication of acrylic and flexible partial dentures
Teaching and learning methods
Using PowerPoint (theoretical) Live demonstration for the practical steps of the partial denture fabrication.
Evaluation methods
1-theoretical exams (Quizzes) 2-practical exams in the laboratory
C- Emotional and value goals C1- Self-confidence C2- Commitment C3- Follow up on scientific and cognitive development
D - Transferable general and qualifying skills (other skills related to employability and personal development). D1 - Teaching the student the ability to recognize the partially edentulous cases D2 - Teaching the student to formulate suitable treatment plan for each case D3 - Teaching the student about fabrication of the partial dentures

Details	week
Impression materials, definition, requirements	1
Classification of impression material, non-elastic impression material	2
Hydrocolloids impression materials	3
Elastomeric impression material	4
Investment materials, definition and requirements	5

Classification of investment materials	6
Dental casting alloy	7
High noble and noble alloy, Classification	8
Base metal alloys, types	9
Titanium alloys	10
Wrought alloy, uses, manipulation	11
Wrought Nickel-Titanium Alloy	12
Wrought stainless steel Alloy	13
Wrought beta titanium alloy	14
Soldering and welding and brazing	15

13. Infrastructure	
Required prescribed books	Stewart's clinical removable partial prosthodontics, 3rd ed v McCrackens removable partial prosthodontics, 12th ed
Main references	
A- Recommended books and references (scientific journals, reports,)	Stewart's clinical removable partial prosthodontics, 3rd ed v McCrackens removable partial prosthodontics, 12th ed v Removable partial dentures-A Practitioners' Manual, Olcay Şakar v Seidin A. Occlusal rests and rest seats. J Prosthet Dent 1958;8: 431-440. v Dunny JA, King CIE. Minor connector design for anterior acrylic resin bases: A preliminary study. J Prosthet Dent 1975;34:496-502
B - Electronic references, Internet sites.	McCrackens removable partial prosthodontics, 12th ed v Removable partial dentures..

14. Course development plan
Adding scientific discussions and cultural events and including them in future plans to increase knowledge and develop students' scientific skills

science of chemistry 1

Description of Subject study

science of chemistry 1

1. Name of the institution	Alayen Iraqi University
2. College name	College of Health and Medical Technologies
3. Department name	prosthetic dental techniques
4. Course name	chemistry basic
5. Available attendance forms	Weekly (theoretical + practical)
6. Semester	1st semester / 2nd stage
7. Number of study hours (total)	60 hours
8. The date this description was prepared	27-3-2024

Course objectives
to introduce the student to the science of chemistry

Course outcomes:

A. Cognitive objectives
knowledge of the principles of chemistry
Understands the academic material

B. Skills objectives for the course
how to deal with chemical materials
use of laboratory equipment / safety

Teaching and learning methods
lectures, datashow

Evaluation methods

1. partial exam
2. final exam
3. quiz

Emotional and value goals

Transferable general and qualifying skills

1. knowledge of the principles of chemistry
2. how to deal with chemical materials
3. use of laboratory equipment / safety

Academic structure

Evaluation method	Teaching method	Subject	Required educational outcomes	Hours	Week
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Quiz	Lectures/datashow	introduction to general chemistry	Understands the academic material	2 theoretical + 2 practical	1
Quiz	Lectures/datashow	Atom	Understands the academic material		2
Quiz	Lectures/datashow	periodic table	Understands the academic material		3
Quiz	Lectures/datashow	chemical bonds	Understands the academic material		4
Quiz	Lectures/datashow	method of analysis	Understands the academic material		5
Quiz	Lectures/datashow	molarity, normality	Understands the academic material		6
Quiz	Lectures/datashow	chemical reactions	Understands the academic material		7
Quiz	Lectures/datashow	Solubility	Understands the academic material		8
Quiz	Lectures/datashow	acid, base	Understands the academic material		9
Quiz	Lectures/datashow	PH	Understands the academic material		10
Quiz	Lectures/datashow	spectroscopy	Understands the academic material		11
Quiz	Lectures/datashow	beers law	Understands the academic material		12
Quiz	Lectures/datashow	Lipids	Understands the academic material		13
Quiz	Lectures/datashow	Proteins	Understands the academic material		14
Quiz	Lectures/datashow	enzymes, vitamins	Understands the academic material		15
Infrastructure					
Required prescribed books					
Main references			solutions for chemistry, 7 th , Martin Silberberg		
Electronic references					
Course development plan: 1. Continuous access to scientific sources and continuous updating of curricula on an annual basis 2. Creating courses that keep pace with new scientific development					

.Crown & Bridge basic

This Program Specification provides a concise summary of the main features of the program and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the program.

1. Teaching Institution	Al Ayen University
2. University Department/Centre	Health and Medical Technologies, Dental Technology Department.
3. Program Title	Crown & Bridge science.
4. Title of Final Award	
5. Modes of Attendance offered	Lectures and laboratory practice in the Crown & Bridge lab.
6. Accreditation	1 st semesters/ Second year 60 hours of theoretical lectures and 90 laboratory hours
7. Other external influences	
8. Date of production/revision of this specification	28-11-2022 Academic year 2022-2023
9. Aims of the Program	
High end tutoring of dental technision students scientifically through Crown & Bridge theoretical lectures and lab practice in order for the student to:	
1- Understand the science of Crown & Bridge.	
2- Understand the Crown & Bridge that need to laboratory.	
3- Provide the student with sufficient information about Crown & Bridge.	
4- Be Informed about the when and how to use Crown & Bridge.	

5- What are the changes that occur to these materials and how do they reach the stage of setting.

6- Be informed about the importance of Crown & Bridge for his/her future profession as a laboratory technician.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals

A1. To understand the basics of Crown & Bridge uses.

A2. To understand the different between Crown & Bridge.

A3. Providing the student with the ability to apply the theoretical information in its clinical applications on patients.

B. The skills goals special to the program.

B1. The practical aspect of laboratory sessions.

B2. Understanding, comprehension and cognitive analysis.

B3. Observation and Perception.

Teaching and Learning Methods

Power Point lecture presentation

Recommending the students to use the library resources to support their learning

Encouraging self-directed learning through explaining its importance

Encourage students to use the Internet as a supportive learning tool

Using discussion and dialogue to increase students' comprehension

Assessment methods

Quizzes, midterm exams, and final exams both theoretically and practically

C. Affective and value goals

C1. Learning other skills that'll help the student in getting recruited by various dental centers in addition to self-improvement of the student him/herself.

Getting the student to deal with up to date scientific lectures and instruments

Teaching and Learning Methods

90 Clinical practical hours and 60 theoretical lecture hours

Assessment methods

D. General and Transferable Skills (other skills relevant to employability and personal development) D1. Learning other skills that'll help the student in getting recruited by various dental centers D2. self-improvement of the student him/herself	
Teaching and Learning Methods	
Assessment Methods	
10.Program Structure	

12. Awards and Credits

	Method of learning	Course or Module Code	Course or Module Title	Hours	Week
	Lecture using power point	Crown & Bridge	Taking impression for ideal prepared cast & making working cast with removable die	3	1
	Lecture using power point	Crown & Bridge	Taking impression for ideal prepared cast & making working cast with removable die	3	2
	Lecture using power point	Crown & Bridge	Taking impression for ideal prepared cast & making working cast with removable die	3	3
	Lecture using power point Practical training	Crown & Bridge	Taking impression for ideal prepared cast & making working cast with removable die	3	4
	Lecture using power point Practical training	Crown & Bridge	Taking impression for ideal prepared cast & making working cast with removable die	3	5
	Lecture using power point Practical training	Crown & Bridge	Taking impression for ideal prepared cast & making	3	6

			working cast with removable die		
	Lecture using power point Practical training	Crown & Bridge	Cutting of the die	3	7
	Lecture using power point Practical training	Crown & Bridge	Cutting of the die	3	8
	Lecture using power point Practical training	Crown & Bridge	Ditching	3	9
	Lecture using power point Practical training	Crown & Bridge	Ditching	3	10
	Lecture using power point Practical training	Crown & Bridge	Mounting	3	11
	Lecture using power point Practical training	Crown & Bridge	Mounting	3	12
	Lecture using power point Practical training	Crown & Bridge	Waxing upper central	3	13
	Lecture using power point Practical training	Crown & Bridge	Waxing upper central	3	14
	Lecture using power point Practical training	Crown & Bridge	Waxing upper central	3	15

13. Personal Development Planning

Seminars and presentation all over the academic year
I, assistant lecturer Mohammed kadhim AL-Koofee will supervise the students' seminars, presentations, and help them academically and practically all year long.

15. Key sources of information about the programme

- 1: Crown & Bridge for dental students
- 2: Textbook of Crown & Bridge.

complete Denture

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1- Educational institution	Al-Ayen Iraqi University / College of Medical and Health Technologies
2- Scientific department/center	Department of Prosthodontics
3- Course name/code	complete Denture
4-Name of the lecturer(s).	Associate professor Dr. Eman Gamal Helal
5-Available forms of attendance	Theoretical and practical
6-Semester/year	1st semester/2 nd year
7-Number of study hours (total)	150 hours
8-The date this description was prepared	2024
9- Course objectives	
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A- Cognitive objectives A1- Introducing the student partially edentulous cases A2- Introducing the student to the diagnosis and classification of partially edentulous cases. A3- treatment planning for the different partially edentulous cases A4- knowing the basic steps of Acrylic partial denture fabrication .
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Details	week
Complete denture terminology :definition & objective	1
Anatomical landmarks of the maxillary edentulous arch	2
Anatomical landmarks of the mandibular edentulous arch	3
Materials used for primary, secondary and boxing impression	4
Special trays, Record base and Occlusal rim: definition, properties & materials used for construction	5

Maxillo-mandibular relationship	6
Articulator and mounting: definition, uses & types	7
Occlusion (balance occlusion)	8
Selection of anterior & posterior teeth	9
Guidelines for artificial teeth arrangement & Arrangement of anterior teeth	10
Arrangement of posterior teeth	11
Waxing, carving & post dam	12
Flasking and de-flasking	13
Packing and curing	14
Finishing and polishing	15

14. Infrastructure	
Required prescribed books	Stewart's clinical removable partial prosthodontics, 3rd ed ∪ McCrackens removable partial prosthodontics, 12th ed
Main references	
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B - Electronic references, Internet sites.	McCrackens removable partial prosthodontics, 12th ed ∪ Removable partial dentures..

15. Course development plan

Adding scientific discussions and cultural events and including them in future plans to increase knowledge and develop students' scientific skills

