

Denal anatomy (advanced)

Course description

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	Denal anatomy
4-Name of the lecturer(s).	Dr.. majid Alwan
5-Available forms of attendance	Theoretical and practical
6-Semester/year	The 2nd semester/1st stage
7-Number of study hours (total)	22 hours
8-The date this description was prepared	2024-3-31
9- Course objectives	
A systematic scientific study of diseases that affect the mouth and teeth in terms of their causes, clinical symptoms, and methods of diagnosis.	

10. Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives A1- Introducing the student to dental anatomy. A2- Introducing the student to the dental anatomy) A3- Introducing the student to the numbering system dental anatomy. A4- Diagnostic methods using traditional and modern way to learn the shape and function of the teeth regularly .
B - The skills objectives of the course. B1 - Teaching the student the ability to anatomy of teeth. B2 - Teaching the student to distinguish between teeth. B3 - Teaching the student about diagnostic methods to differentiate teeth.
Teaching and learning methods
Using PowerPoint (practical and theoretical)
Evaluation methods
1-Daily exams (Quizzes) 2-Monthly exams 3-Reports preparation 4-Discussions in practice
C- Emotional and value goals C1- C1- Self-confidence C2- Paying attention to external appearance C3- Adherence to working hours C4- 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 about dental anatomy. D2 - Teaching the student to distinguish between differentiated teeth. D3 - Teaching the student about carving of teeth.

11.Infrastructure	
Required prescribed books	Dental anatomy and Morphology
Main references	
A- Recommended books and references (scientific journals, reports,)	Dental journals
B - Electronic references, Internet sites...	

المفردات الدراسية / الكورس الثاني (النظرية)	
الأسبوع	التفاصيل
الأول	Maxillary 1st premolar teeth: description and anatomical landmarks
الثاني	Maxillary 1st premolar teeth: description buccal, lingual, mesial, distal, and occlusal aspects
الثالث	Maxillary 2nd premolar teeth: description and comparison to the maxillary 1st premolar
الرابع	Mandibular 1st premolar: description, aspects, and anatomical landmarks
الخامس	Mandibular 2nd premolar: description, aspects, and anatomical landmarks
السادس	Maxillary 1st molar teeth: description the buccal, lingual, mesial, distal, and occlusal aspect
السابع	Maxillary 1st molar teeth: description and anatomical landmarks of maxillary first molar
الثامن	Maxillary 2nd molar teeth: description the aspects in comparison to the Maxillary 1st molar
التاسع	Maxillary 3rd molar teeth: description the aspects in comparison to the Maxillary 1st molar and 2nd molar
العاشر	Mandibular 1st molar teeth: description and anatomical landmarks
الحادي عشر	Mandibular 1st molar teeth: description the buccal, lingual, mesial, distal, and occlusal aspect
الثاني عشر	Mandibular 2nd molar: description the aspects in comparison to the Mandibular 1st molar
الثالث عشر	Mandibular 3rd molar: variation and comparison to the Mandibular 2nd molar
الرابع عشر	Occlusion: definition, types, and features
الخامس عشر	Review of the posterior teeth

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 appliance techniques (advance)

Course description

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 appliance techniques
4-Name of the lecturer(s).	Dr.majid alwan
5-Available forms of attendance	Theoretical and practical
6-Semester/year	2 nd semester/1st stage 0202-0202
7-Number of study hours (total)	22 hours
8-The date this description was prepared	2024-3-31
9- Course objectives	

A systematic scientific study of Dental appliance techniques

10. Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives A1- Introducing the student to Dental appliance techniques. A2- Introducing the student to the Dental appliance techniques A3- methods using traditional and modern in Dental appliance techniques
B - The skills objectives of the course. B1 - Teaching the student the ability to know Dental appliance techniques B2 - Teaching the student to distinguish between different Dental appliance techniques. B3 - Teaching the student about Dental appliance techniques
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- C1- Self-confidence C2- Paying attention to external appearance C3- Adherence to working hours C4- 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 in Dental appliance techniques D2 - Teaching the student to Dental appliance techniques

المفردات الدراسية / الكورس الثاني (النظرية)	
التفاصيل	الأسبوع
Agar-ager melting machine and Flask cooling unit	الأول
Burn-out Furnace and casting ring	الثاني
Conventional Centrifuge casting machine.	الثالث

Electric and Induction Centrifuge casting machine.	الرابع
Ultrasonic cleaning machine, and Mechanical mixer (vacuum)	الخامس
Sand blast machine	السادس
Dental Ceramic Furnace	السابع
Soldering and welding	الثامن
Dental Biostar	التاسع
Dental-Arch Trimmer	العاشر
Dental Pindex machine	الحادي عشر
Electronic spatula for wax modelling	الثاني عشر
Induction wax modelling and Dipping wax unit	الثالث عشر
General measurement instruments and Hopper duplicator	الرابع عشر
CAD-CAM production methods	الخامس عشر

12. Infrastructure	
Required prescribed books	
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 (level I I)

Course description

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 (level I I)
4-Name of the lecturer(s).	Assistant.Prof. Ahmed Abdou
5-Available forms of attendance	Theoretical and practical
6-Semester/year	The second semester /1st stage
7-Number of study hours (total)	120 hours
8-The date this description was prepared	2024-3-31
9- Course objectives	
1. Teach students basic and advanced dental materials. 2. Teach the student the proper manipulation of dental materials 3. Teach students the chemical and physical properties of dental materials.	

10.Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives A1- Teach the basic and applied dental materials. A2- Recognize the characteristics of dental materials related to laboratory work.
B - The skills objectives of the course. B1 – Proper handling the dental materials B2 – Proper technique for dental casting B3 – Proper handling of the recent dental materials
Teaching and learning methods
Using PowerPoint (practical and theoretical) Lab work Electronic Video Search
Evaluation methods
1-Daily exams (Quizez) 2-Monthly exams 3-Reports preparation 4-Discussions in practice
C- Emotional and value goals C1- Self-confidence C2- develop research skills C3- develop clinical and laboratory skills related to dental field C4- Follow up on scientific and cognitive development
D - Transferable general and qualifying skills (other skills related to employability and personal development). D1 – Handling and tactile feeling of dental materials

المفردات الدراسية / الكورس الثاني (النظرية)	
التفاصيل	الأسبوع
Polymers in dentistry (Basic structure of polymer)	الأول
Polymers in dentistry (polymerization and crosslinking reactions)	الثاني
Resins, artificial teeth materials	الثالث
Acrylic resin material (denture base materials)	الرابع
Classification and properties of dental acrylic resin materials	الخامس
Denture liner materials	السادس
Wax (composition and properties)	السابع
Dental wax (Thermal, physical, and chemical properties)	الثامن
Dental wax (types and uses)	التاسع
Gypsum products (chemistry and composition)	العاشر
Gypsum products (types and uses)	الحادي عشر
Gypsum products (setting reaction and properties)	الثاني عشر
Dental abrasives (definition and concept)	الثالث عشر
Dental abrasives types	الرابع عشر
Dental abrasives (procedure and application)	الخامس عشر

12.Infrastructure	
Required prescribed books	
Main references	
A- Recommended books and references (scientific journals, reports,)	Introduction to Dental Materials
B - Electronic references, Internet sites... Journal of dental research, journal of Dentistry, Dental Materials	

13.Course development plan

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

General physics

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 Dental Industry
3- Course name/code	physics/1 st stage semester2 nd
5-Available forms of attendance	Theoretical
6-Semester/year	The 2nd semester 2024-2023
7-Number of study hours (total)	30 hours
8-The date this description was prepared	2023-3-31
9- Course objectives	

--

10. Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives
B - The skills objectives of the course.
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- C1- Self-confidence C2- Paying attention to external appearance C3- Adherence to working hours C4- 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 check the writing D2 - Teaching the student to distinguish between letter and sounds D3 - Teaching the student about diagnostic methods

Details	Week
---------	------

Review of general physics, concept and laws	1
Atomic structure	2
Ohms law, series and parallel circuits	3
Capacitor, series and parallel capacitors	4
Electromotive force (e.m.f)	5
Mechanics of elastic solid	6
Stress-Strain curve	7
Heat and latent heat	8
Heat and first law of thermodynamics	9
Heat transfer by conduction. transition and radiation	10
Sound	11
Work, Power, Energy	12
Velocity, Acceleration, Newton's law	13
Gases, pressure, law of pressure	14
Force and momentum	15

12. Infrastructure	
Required prescribed books	1-fundamentals of physics, Holliday and Resnick (9 th edition 2011) (2014).
Main references 2-Heat and Properties of the Materials ,by kadem ahmed mohemed.	
A- Recommended books and references (scientific journals, reports,)	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

Computer Applications 2

General Objective:

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve.

Prove whether he has made the most of the available learning opportunities. It must be linked to the description of Program.

Special Objective:

1 Identify the operating system, its importance, and the tasks performed by computer components and accessories Application programs
And connect to the Internet and get to know the outside world.

Educational institution Al Ain University	Alayen Iraqi University
Scientific Department / Center	Dental industry
Course Name/Code	Computer Applications 2
4.Available Attendance Forms	%100
5 . Semester / Year	2nd semester / 1 st stage
6. Number of Credit Hours (Total)	45
7. The history of preparation of this description	2024/3/31
8. Course Objectives	
Identify the operating system, its importance, and the tasks performed by computer components and accessories Application programsand connect to the Internet and get to know the outside world.	

Course Outcomes and Methods of Teaching, Learning and Assessment
A- Cognitive objectives A 1 - The student should familiarize himself with modern operating systems, which are Windows 7,8,10 A2 The student should recognize the importance of operating systems and their work - A3 The application should know how to deal with Microsoft office applications - 2013,2010A 4 The application should know how to connect the calculator to the Internet C. A5 The student should know how to deal with e-mail . A6 The student should know how to search and shop online
B - Skills objectives of the course. B1 The application should deal with the computer and recognize its internal and external parts B2 The student should perform some tasks such as sending an e-mail B3 The student should deal with office applications and create some reports to increase his skill B4 The student should access the Internet and learn how to search and shop. Electronic
Teaching and learning methods
Interactive Electronic Video
Evaluation methods
Conducting exams, periodic questions, oral exam, observation, homework, laboratory reports.
c- Emotional and value goals Experimental thinking • Exploratory thinking • Critical thinking • Inductive thinking
Teaching and learning methods
The method of lecture, discussion, student research in an interactive, electronic and video way.
Evaluation methods

Discussion, observation, group tasks.		
Course Outcomes and Methods of Teaching, Learning and Assessment		
A- Cognitive objectives A 1 - The student should familiarize himself with modern operating systems, which are Windows 7, 8, 10. A2 The student should recognize the importance of operating systems and their work - A3 The application should know how to deal with Microsoft office applications - 2013, 2016, 2019 to connect the calculator to the Internet C. A5 The student should know how to deal with e-mail . A6 The student should know how to search and shop online		
B - Skills objectives of the course. B1 The application should deal with the computer and recognize its internal and external components. B2 The student should perform some tasks such as sending an e-mail B3 The student should deal with office applications and create some reports to increase his productivity. B4 The student should access the Internet and learn how to search and shop.		
Teaching and learning methods		
Interactive Electronic Video		
Evaluation methods		
Conducting exams, periodic questions, oral exam, observation, homework, laboratory reports		
C. Emotional and value goals Experimental thinking • Exploratory thinking • Critical thinking • Inductive thinking		
Teaching and learning methods		
The method of lecture, discussion, student research in an interactive, electronic and video		
Evaluation methods		
Discussion, observation, group tasks.		

d . General and qualifying skills transferred (other skills related to them).
D1 The student should behave appropriately from the work appetizers -
D2 The student must pass the professional tests -
D 3 The student should develop himself after graduation C -
D4 The student should use the available means to increase the efficiency of e

Department or Branch	Anesthesia	Material Name	Computer Applications	Academic year	
Theoretical vocabulary					
XVI-XIX	Encyclopedia of Humman body . - The concept of the program, its operation, identification of the components of the home screen, methods of dealing with data and search methods provided by the program, which represents a close image with the search in the World Wide Web (Internet).				
20th	Identify the vocabulary of the human body and take advantage of the presentation methods provided by .				
XXI-XXX	Body Works modern version that works under the (windows) environment: the concept of the program, its operation and characteristics, the components of the home screen, and to learn how to deal with the tools, menus and options it provides, and how to get the exact details. - Addressing the presentations and explanation provided by the program to various human body systems such as skeletal , nervous, muscles Etc. 1. Take advantage of the sound or pronunciation of some of the vocabulary it provides, in addition to identifying the real action movies that exist.				

	2. How to access the exact details it provides through the database and search index for that. 1. Addressing the health of the community through the selection of Health & Fitness , which addresses Types of foods, weight loss, calories for food, weights, first aid, numbness and others. 2. Identify the causes of mortality, births, fetal stages, sexually transmitted diseases and ways to prevent them by choosing Living . - Useful options such as lessons or rapid tests that provide an easy and quick testing tool so that the person knows his scientific level in the subjects offered by this program .
--	---

10.Infrastructure
Jr., D. H. L. F., 2012. Introduction to Microsoft Office 2010. 2nd ed. s.l.:World scientific publishing. ne, R., 2915. Introduction To Windows. 2nd ed. s.l.:World scientific publishing Thomas Anderson, M. D., 2014. Operating Systems: Principles and Practice. s.l.:University of Texas

11.Course Development Plan
The curriculum development plan is based on the following:

1. Give the prescribed scientific material and observe and analyze the results of the students.
2. Study feedback from students' notes about vocabulary.
3. Study the practical laboratory notes of the course.
4. Comparing current vocabulary with those of corresponding colleges in the field