

Complete Denture (Basic)

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	Complete Denture (Basic)
4-Name of the lecturer(s).	Assistant lecturer Naseem Ghazi Abo Hasson
5-Available forms of attendance	Theoretical
6-Semester/year	1 st semester/3 nd year
7-Number of study hours (total)	150 hours
8-The date this description was prepared	2024
9- Course objectives	Establishing an accurate diagnosis , suitable treatment planning and the comprehension of different methods for the construction of the successful complete denture and all the procedures relating to it.

10. Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives A1- Introducing the student to the principles of scientific research A2- Introducing the student to the diagnosis and treatment plan of edentulous cases. A3- knowing the basic steps of complete denture fabrication . A4- Checking out the new researches and choose the suitable scientific resources relating to complete denture cases
B - The skills objectives of the course. B1-Gaining the correct experience in dealing with the edentulous cases B2 - How to develop correct treatment plans B3 - Mastering all steps of the fabrication of the complete dentures B4- Recognition of the different materials relating to complete denture fabrication
Teaching and learning methods
Using PowerPoint (theoretical) Live demonstration for the practical steps of the complete 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 edentulous cases D2 - Teaching the student to formulate suitable treatment plan for each case D3 - Teaching the student about fabrication of the complete dentures

11. Course structure (annual teaching system)

Evaluation method	Teaching method	Name of the unit/topic	hours	Week
Quizzes	theoretical	Impression materials for complete denture (CD)	2	the first
Quizzes	theoretical	Anatomical landmarks for upper & lower jaw, maxillary & mandibular cast	2	the second
Quizzes	theoretical	Special tray, record base & occlusal rim	2	the third
Quizzes	theoretical	Maxillo-mandibular relationship	2	the fourth
Quizzes	theoretical	Mounting	2	Fifth
Quizzes	theoretical	Articulator	2	Sixth
Quizzes	theoretical	Face-bow	2	Seventh

Quizzes	theoretical	Occlusion	2	Eighth
Quizzes	theoretical	Mandibular movement	2	Ninth
Quizzes	theoretical	Compensating curve	2	Tenth
Quizzes	theoretical	Arrangement of artificial teeth (class I)	2	Eleventh
Quizzes	theoretical	Arrangement of artificial teeth (class II)	2	Twelfth
Quizzes	theoretical	Arrangement of artificial teeth (class III)	2	Thirteenth
Quizzes	theoretical	Waxing carving	2	Fourteenth
Quizzes	theoretical	Flasking procedure	2	Fifteenth
Quizzes	theoretical	Packing	2	Sixteenth
Quizzes	theoretical	Finishing & polishing	2	Seventeenth
Quizzes	theoretical	Retention, stability, and support	2	Eighteenth
Quizzes	theoretical	Retention, stability, and support	2	Nineteenth
Quizzes	theoretical	Rebasing for C.D	2	Twentieth
Quizzes	theoretical	Relining for C.D	2	Twenty-first
Quizzes	theoretical	Repair for C.D	2	Twenty-second
Quizzes	theoretical	Materials used for denture base	2	Twenty-third
Quizzes	theoretical	Types of teeth according to material & cusp inclined.	2	Twenty-fourth
Quizzes	theoretical	Immediate denture	2	Twenty-fifth
Quizzes	theoretical	Duplication of C.D	2	Twenty-sixth
Quizzes	theoretical	Over denture	2	Twenty-seventh
Quizzes	theoretical	Soft tissue liner	2	Twenty-eighth
Quizzes	theoretical	Single C.D. opposing natural teeth or restore teeth	2	Twenty-ninth
Quizzes	theoretical	Dental implant	2	Thirtieth
	theoretical	Examination	2	

12. Infrastructure

Required prescribed books

Textbook of Complete Denture Prosthodontics

	Complete Denture Prosthodontics(kindle edition)
Main references	
A- Recommended books and references (scientific journals, reports,)	Complete Denture Prosthodontics(kindle edition) Textbook of Complete Denture Prosthodontics
B - Electronic references, Internet sites.	https://bookauthority.org/books/best-prosthodontics-ebooks https://www.dentalcare.com/en-us/professional-education/ce-courses/ce360/references

13. Course development plan

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

Medical Sciences (Oral diseases)

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	Medical Sciences (Oral diseases)
4-Name of the lecturer(s).	Dr.. Hakeem Ghani Hassan
5-Available forms of attendance	Theoretical and practical
6-Semester/year	1 st semester/3 nd stage
7-Number of study hours (total)	Theoretical + practical (75 hrs.)
8-The date this description was prepared	2023-10-15
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 diseases of the mouth and teeth
- A2- Introducing the student to the causes of diseases
- A3- Introducing the student to the symptoms of diseases
- A4- Diagnostic methods using traditional and modern radiography and studying pathological tissues using modern special dyes.

B - The skills objectives of the course.

- B1 - Teaching the student the ability to diagnose diseases
- B2 - Teaching the student to distinguish between diseases
- B3 - Teaching the student about diagnostic methods

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 diagnose diseases

D2 - Teaching the student to distinguish between diseases

D3 - Teaching the student about diagnostic methods

11. Course structure					
Evaluation method	Teaching method	Name of the unit/topic		hours	Week
Quizes	theoretical	Iuntroduction to oral pathology		2	the first
Quizes	theoretical	Slide preparation		3	the second
Quizes	theoretical	Biopsy		3	the third
Quizes	theoretical	Dental Caries		3	the fourth
Quizes	theoretical	Disease of the pulp		3	Fifth
Quizes	theoretical	Disease of the periapical tissue		3	Sixth
Quizes	theoretical	Osteomyelitis		3	Seventh
Quizes	theoretical	Developmental defect		3	Eighth
Quizes	theoretical	Developmental defect		3	Ninth
Quizes	theoretical	Diseases of the bone		3	Tenth
Quizes	theoretical	Disease of the bone		3	Eleventh
Quizes	theoretical	Disease of the salivary gland		3	Twelveth
Quizes	theoretical	Disease of the tongue		3	Thirteenth
Quizes	theoretical	Disease of the oral mucosa		3	Fourteenth
	theoretical	Examination		3	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

Orthodontics 3rd stage

Course description

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

1. Educational institution	Al-Ayen Iraqi University / College of Medical and Health Technologies
2. Department of Science/Center	Faculty of Medical and Health technologies/ Department of Dental Industry technologies
3. Name/code of the decision	Orthodontics
4. Forms of presence available	Theoretical
5. 4-Name of the lecturer(s).	NOUR drgham
6. ٥Semester/year	1+2 semester/ 3rd stage
7. Number of school hours (total)	240 hours
8. Date of preparation of this description	30\3\2024
9. Objectives of the decision	

Give the student a comprehensive view of all things related to orthodontic devices and their components
Enable the student to make different removable devices
Give students all the information and research results about the most suitable devices for each patient

10. Course outputs and methods of teaching, learning and evaluation
A. knowledge objectives 1- studying new research that is of interest to the student and how to choose good research 2- know the origins of his scientific research book 3. Find the right sources A4- maintaining the ethics of the profession and the ethics of dealing with colleagues
B. skills objectives of the Rapporteur. B1 enable the student to know the types of mixtures, wires and materials used in the manufacture of orthodontic devices B2 - gain experience in the manufacture of all hardware components B3 - enable the student to activate the devices and the ovulation B4 - enable the student to repair and modify any device
Teaching and learning methods
1- Presence 2- Theory 3- Interactive 4- Video 5- Research
Methods of evaluation
Periodic Questions Monthly tests Periodic meetings and discussions Quarterly exams
C. emotional and value goals C1 - upgrading and developing the scientific level C2 - Development and development of expertise and knowledge 3- encourage scientific research C4- Compliance with scientific laws and instructions
Teaching and learning methods
1 -presence 2- theory

3- interactively 4 -Videos 5- research
Methods of evaluation
Periodic Questions Monthly tests Periodic meetings and discussions Quarterly exams
General and transferable skills (other skills related to employability and personal development). D1 - gain experience and confidence in information 2- Exchange of experience D3 - Love collaboration, teaching and learning 4- be patient and accurate at work

11.Structure of the decision					
Method of assessment	Method of education	Name of unit or subject	Required learning outcomes	Hours	The week
Quizzes	Theoretical	Removable orthodontic appliances	The student understands the material	2	First
Quizzes	Theoretical	Finger spring	The student understands the material	2	Second
Quizzes	Theoretical	Z-SPRING	The student understands the material	2	Third
Quizzes	Theoretical	BUCCAL CANINE RETRACTOR		2	Fourth
Quizzes	Theoretical	SHORT LABIAL BOWS		2	Fifth
Quizzes	Theoretical	ROBERT RETRACTOR			Sixth
Quizzes	Theoretical	FUNCTIONAL APPLIANCES		2	VII.

12.The infrastructure	
Simple in the teeth and jaws	1- required books
CONTEMPORARY OF ORTHODONTICS 5 TH EDITION	2- Main references (sources)

CONTEMPORARY OF ORTHODONTICS Clinical dental calendar	Books and references recommended (scientific journals, reports, etc.)
https://www.dentalcare.com/en-us/professional-education/ce-courses/ce360/references	E-books, Internet sites

13. Curriculum development plan
Upgrading and developing the knowledge and information of the student and his scientific level

Research methodology

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	Research methodology
4-Name of the lecturer(s).	Dr.. Hashim Fadhil Abbas
5-Available forms of attendance	Theoretical
6-Semester/year	2024-2023
7-Number of study hours (total)	30 hours
8-The date this description was prepared	17-9-2023
9- Course objectives	
Providing students with abundant information on how to prepare and write scientific research, and how to choose research sources that match the required research vocabulary, enabling students to infer data from other research.	

11. Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives

- A1- Introducing the student to scientific study and principles that can be developed in practical work
- A2- Introducing the student to write research paper
- A3- Introducing the student choose right references
- A4- Commitment and refraining from anything that harms the medical profession.

B - The skills objectives of the course.

- B1 - Teaching the student howAcquiring knowledge and expertise
- B2 - Teaching the student to Understanding the rights and conditions of journals for publishing research

Teaching and learning methods

Using PowerPoint (theoretical)

Evaluation methods

1-Daily exams (Quizez)
2-Monthly exams
3-Reports preparation
4-Discussions
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). 1. D1 - Increasing self-confidence 2. D2 - Bearing the burdens and hardships of work 3. D3 - Building strong bonds with colleagues at work 4. D4 - Demonstrating exemplary ethics

11. Course structure					
Evaluation method	Teaching method	Name of the unit/topic		hours	Week
Quizes	theoretical	Principles of research		2	the first
Quizes	theoretical	Scientific methods		2	the second
Quizes	theoretical	Designing the research plan		2	the third
Quizes	theoretical	The research process		2	the fourth
Quizes	theoretical	Classification of research		2	Fifth
Quizes	theoretical	Fundamental research		2	Sixth
Quizes	theoretical	Applied research		2	Seventh
Quizes	theoretical	Clinical trials		2	Eighth
Quizes	theoretical	Research problem formation		2	Ninth
Quizes	theoretical	Research proposal writing		2	Tenth
Quizes	theoretical	Pilot study		2	Eleventh
Quizes	theoretical	Research elements (Introduction)		2	Twelveth

Quizes	theoretical	Research elements (Literature review)		2	Thirteenth
Quizes	theoretical	Research elements (materials and methods)		2	Fourteenth
	theoretical	Research elements (Results, discussion, and conclusion)		2	Fifteenth

13. Infrastructure	
Required prescribed books	books on psychology, international law, and religion include
Main references	
A- Recommended books and references (scientific journals, reports,)	The Craft of Research" by Wayne C. Booth, Gregory G. Colomb, and Joseph M. Williams – How to Write a Lot: A Practical Guide to Productive Academic Writing" by Paul J. Silvia
B - Electronic references, Internet sites... www.goggle.com	

14. Course development plan
Developing a scientific plan to illustrate the process of writing a research ".paper

Computer

This course description provides a brief summary that inspired the course characteristics and learning outcomes expected of the student to achieve, proving whether he or she made the most of the

available learning opportunities. And it must be linked to the description

1 Educational institution	Alayen Iraqi University
2 Scientific Department	Dental Techniques
3 Course Name/Code	Computer
4 Available Forms of Attendance	Lectures
.5 Semester / Year	1st semester/3rd stage
6. Number of credit hours (total)	45
7. The history of preparation of this description	2024
.8 Course Objectives	

Teaching the student to be familiar with the basic rules of dealing with the computer and managing it to help him in completing projects, printing matters, preparing statistics and graphs, creating presentations, engineering plans designs, etc., and the emergence of the Internet as a means of communication available to everyone It has become very necessary for the student to learn to use the computer due to the role of the Internet in many fields, including education and research Scientific, trade and marketing through electronic correspondence, web pages and electronic talk.

16.Course Outcomes and Methods of Teaching, Learning and Assessment
A- Cognitive Objectives A-1 The amount of student comprehension of the material A-2 Ability to analyze and apply what you have learned in practice to the calculator A-3 The evaluation is carried out through the presentation of the material among the students in the laboratory and then applied by them
B - Skill objectives of the course. B1 - Direct questions and answers about the previous article Analysis of the student's ability to absorb through the work home implemented at home and stored on disks to display in front of the student directly to see the extent of what they learned from the previous lecture B3 – Presentation of educational pens for the subject in order to consolidate the ability to learn
Teaching and learning methods
The theoretical method and explanation by presenting the material on the Point Power program in the form of charts and pictures in order to attract the student's attention and help him not to feel bored. And the practical way of applying what has been presented On the calculator and conduct daily and monthly exams .
Evaluation methods
Exam score Daily attendance and participation
C. Emotional and value goals C-1 Guiding the student on how to use the computer in accordance with his cultural level C-2 Guiding the student how to deal with social site
Teaching and learning methods
Presentation of the material in the form of educational pens The student is asked to conduct research and reports on the importance of using computers in our lives and the use of means of communication among themselves and make a simple pen about that too and discuss the reports

Evaluation methods
Two marks are calculated and are included in the degree of attendance and participation
D. General and qualifying skills transferred (other skills related to employability and personal development.) D-1 Encourage the student to write simple research papers towards previous lectures to create a state of balance between Methodological information and source information D-2 Urging the student to make practical projects on the computer and conducting seminars among students on the methodologyArticle <i>D-3 Encourage the student to evaluate the answer of his fellow students from other students to develop self-development</i>

.11Course structure					
Evaluation method	Method of education	Unit / Subject Name	Required Learning Outcomes	Hours	The week
Daily tests	theoretical	Computer Fundamentals	computer cycle phases, generations and data and information	2	The first
Daily tests	theoretical	Computer Fundamentals	Computer features and areas of use and its components	2	Second
Daily tests	Video representing types Computers	Computer Fundamentals	Types of computers and classified	2	Third
Daily tests	Video representing parts Computer	Computer Components	computer Components Physical Parts Input Devices and output	2	Fourth
Daily tests	theoretical	Computer Components	Computer Box and Entity Programmatic	2	V
Daily tests	theoretical	Computer Components	Meter and Computer Systems Personal	2	Sixth
Daily tests	theoretical	Computer Components	Computer platform and factors to consider when buying Computer	2	Seventh
Daily tests	theoretical	Computer Components	Key features of the computer Personal and class questions	2	Eighth

Daily tests	Explanator y video	Comput er Security and Software Licenses	Create the electronic world and forms of transgressions and security Computer	2	Ninth
Daily tests	theoretical	Comput e r Security and software licenses	Computer Software Licenses And types of licenses	2	X
Daily tests	theoretical	Comput e r Security and software licenses	Intellectual Property and Penetration Electronic	2	Eleventh
Daily tests	theoretical	Comput e r Security and software licenses	Electronic penetration and types of Hack	2	Twelfth
Daily tests	View	Comput e r Security and software licenses	Sources of penetration and risks The most common minia	2	Thirteenth
Daily tests	theoretical	Comput er Security and Software Licenses	Malware – Viruses Computer	2	Fourteenth
Daily tests	Video tutorial and illustrative	Comput e r Security and software licenses	Damages caused by Viruses Recipes	2	Ten

1. Computer Fundamentals and Office Applications - 2. And the Ministry of Higher Education and Scientific Research - Research and Development Department	3. 1 Required textbooks
4. Yusr Al-Mustafa Series for Science"Basics of Computer and Internet Office □ 0202, Dr. Ziad Muhammad Abboud, Dar Al-Dr. for Publishing and Distribution, Baghdad 5. 0202	6. 2 Main references (sources)
7. Using two researches from my research 8. Encryption a text using affine cipher and hiding it in the colored image by using the Quantization stage, Nada Abdul Aziz Mustafa ,Iraq, Baghdad, University of Baghdad, College of Languages 9. 10. The Effect of the Smoothing Filter on an Image Encrypted By the Blowfish Algorithm Then Hiding It in A BMP Image Nada Abdul Aziz Mustafa, Iraq, Baghdad, University of Baghdad, College of Languages 11. 12. Computer literacy BASICS 2012, LeBlanc, Brandon." A closer look at the, windows 7. 2009 13. Computing Fundamentals, Innovative training works 14. USA, Inc, 2006	15. Recommended books and references 16. (Scientific fields , reports ,)
. Word 2010 Digital Classroom Book https://www.agitraining.com/books/microsoft-office-books/word-2010-digital-classroom-book	Web References, Websites

Maxillofacial prosthodontics (Basic)

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	Maxillofacial prosthodontics (Basic)
4-Name of the lecturer(s).	Associate professor Dr. Eman Gamal Helal
5-Available forms of attendance	Theoretical and practical
6-Semester/year	1 st semester/3 rd stage
7-Number of study hours (total)	240 hours
8-The date this description was prepared	2023
9- Course objectives	
Studying of different treatment plans for the partially edentulous cases and fabrication of the Metal partial dentures	

12. Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives A1- recognition of different maxillofacial cases A2- The classification of the different maxillofacial cases A3- The different designs for the maxillofacial obturators. A4- recognition of the materials used in maxillofacial prosthodontics.
B – Course skills objectives B1 Gaining the correct experience in dealing with the maxillofacial cases. B2 - How to develop correct treatment plans B3 - Mastering all steps of the fabrication of the maxillofacial prostheses. B4 fabrication of the maxillofacial prostheses
Teaching and learning methods
Using PowerPoint (theoretical) Live demonstration for the practical steps of the maxillofacial prostheses' 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 maxillofacial cases D2 - Teaching the student to formulate suitable treatment plan for each case D3 - Teaching the student about fabrication of the obturators and maxillofacial prostheses.

11. Course structure

Evaluation method	Teaching method	Name of the unit/topic	hours	Week
Quizzes	theoretical	Introduction : definition, Indication.	2	1
Quizzes	theoretical	Treatment program.	2	2
Quizzes	theoretical	Anatomy of the face in relation to maxillofacial prosthesis.	2	3
Quizzes	theoretical	Facial proportions: Vertical plane, horizontal planes.	2	4
Quizzes	theoretical	Facial portions: Boney prominence lines & wrinkles.	2	5
Quizzes	theoretical	Age changes in face, skin thickness, skin texture.	2	6
Quizzes	theoretical	Clinical & laboratory facilities in maxillofacial prosthesis: Treatment room.	2	7
Quizzes	theoretical	Clinical & lab. Facilities: Laboratory.	2	8
Quizzes	theoretical	Clinical lab facilities: waiting room.	2	9
Quizzes	theoretical	Cleft palate: Normal anatomy.	2	10
Quizzes	theoretical	Cleft palate : Development of face, lip & palate.	2	11
Quizzes	theoretical	Cleft palate: Causes & predisposing factors.	2	12
Quizzes	theoretical	Cleft palate : Classification & problems	2	13
Quizzes	theoretical	Cleft palate: Pharynx: Anatomy & problems.	2	14
Quizzes	theoretical	Cleft palate: Treatment Soft plate obturator prosthesis.	2	15

Quizzes	theoretical	Cleft Palate: Treatment: Palatal lift device.	2	16
Quizzes	theoretical	Maxillary obturator prosthesis: indication & treatment plane.	2	18
Quizzes	theoretical	Maxillary obturator prosthesis: surgical obturator	2	19
Quizzes	theoretical	Maxillary obturator prosthesis: interim obturator	2	20
Quizzes	theoretical	Maxillary obturator prosthesis: Definitive obturator	2	21
Quizzes	theoretical	Maxillary obturator prosthesis: problems	2	22
Quizzes	theoretical	Maxillary materials: impression materials	2	23
Quizzes	theoretical	Maxillary materials: Modelling materials	2	24
Quizzes	theoretical	Maxillary materials: materials used in construction of facial prosthesis	2	25
Quizzes	theoretical	Nose prosthesis: Anatomy	2	26
Quizzes	theoretical	Nose prosthesis: Sculpture of nose.	2	27
Quizzes	theoretical	Nose prosthesis :Flasking	2	28
Quizzes	theoretical	Nose opening device: Indication & impression	2	29
Quizzes	theoretical	Nose opening device: Sculpture and Flasking	2	30

14. Infrastructure

Required prescribed books

Beumer, John. *Maxillofacial rehabilitation: Surgical and prosthodontic management of*

	<i>cancer-related, acquired, and congenital defects of the head and neck</i> . 3rd ed. Hanover Park, IL: Quintessence Pub., 2011.
Main references	
A- Recommended books and references (scientific journals, reports,)	Beumer, John. <i>Maxillofacial rehabilitation: Prosthodontic and surgical management of cancer-related, acquired, and congenital defects of the head and neck</i> . 3rd ed. Hanover Park, IL: Quintessence Pub., 2011.
B - Electronic references, Internet sites.	Beumer, John. <i>Maxillofacial rehabilitation: Prosthodontic and surgical management of cancer-related, acquired, and congenital defects of the head and neck</i> . 3rd ed. Hanover Park, IL: Quintessence Pub., 2011.

15. Course development plan

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

Medical Sciences (Oral bacteria)

This course description provides a summary of the most important course characteristics and the learning outcomes that 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	Medical Sciences (Oral bacteria)
4. Name of the lecturer(s).	Dr.. Hakeem Ghani Hassan
5. Available attendance forms	Halls and microbiology laboratory
6. Semester/year	2 nd Semester / 3 rd stage
1. Number of study hours (total)	Theoretical + practical (75 hrs.)
8.The date this description was prepared	2024/3/31
9. Course objectives: To familiarize the student with the nature and parts of bacteria that cause oral and dental diseases and how to make and examine slides. It also enables the student to identify the nature and parts of bacteria that cause oral and dental diseases and diagnose them laboratory using a microscope.	

10. Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives A1- Study all topics of oral pathogenic bacteria and learn about their different structures and forms. A2- The study of oral bacteriology is a complement to the study of oral tissue diseases, which helps the student absorb and understand the topics in a precise and easy way. A3- Giving theoretical lectures in English strengthens and enables the student to understand the material correctly.
The skills objectives of the course. - Preparing a generation of students qualified to have the ability to diagnose laboratory pathological conditions. - Provides students with information that enables them to enter the world of graduate studies in the future.
Teaching and learning methods
Theoretical lectures (Power point)
Evaluation methods
1.Daily exams (quizzes) 2.Monthly theoretical exams 3.Class activities
C- Emotional and value goals C1- Using modern methods to present lectures in the form of slides using Aldata Show. C2- Use video clips and illustrations. C3- Assigning students to homework
D - Transferable general and qualifying skills (other skills related to employability and personal development). D1- Acquiring the skill of using computers and electronic attendance D2- Skill in laboratory handling of various medical samples.

11. Course structure

Evaluation method	Teaching method	Name of the unit/topic	Hours	Week
Quizes	Power point lectures, and the use of an optical microscope	Oral bacteriology	3	First
Quizes	Power point lectures, and the use of an optical microscope	The cellular structure of bacteria	3	Second
Quizes	Power point lectures, and the use of an optical microscope	Dent Bacterial classification	3	Third
Quizes	Power point lectures, and the use of an optical microscope	Bacterial growth phases and curve	3	Fourth
Quizes	Power point lectures, and the use of an optical microscope	Grams stain steps and procedures	3	Fifth
Quizes	Power point lectures, and the use of an optical microscope	Basic requirements of Bacteria	3	Sixth
Quizes	Power point lectures, and the use of an optical microscope	Oral microbiology and oral environments	3	Seventh
Quizes	Power point lectures, and the use of an optical microscope	Dental plaque, definition, clinical feature, developments	3	Eighth
Quizes	Power point lectures, and the use of an optical microscope	Oral streptococci, types ,morphology ,characteristics ,selective media	3	Tenth
Quizes	Power point lectures, and the use of an optical microscope	Mutans streptococci, types, morphology, characteristics, selective media	3	Eleventh
Quizes	Power point lectures, and the use of an optical microscope	The role of Bacteria in dental caries(cariogenic bacteria)	3	Twelveth
Quizes	Power point lectures, and the use of an optical microscope	The role of streptococcus in the development of dental caries	3	Thirteenth

Quizes	Power point lectures, and the use of an optical microscope	The role of bacteria in periodontal disease		3	Fourteenth
Quizes	Power point lectures, and the use of an optical microscope	Gingivitis		3	Fifteenth

12. Infrastructure

Required prescribed books	Theoretical and practical power point lectures
Main references (sources)	Google
A- Recommended books and references (scientific journals, reports,...)	Illustrated research and scientific 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.

Crown & Bridge Restorations

This course represents the orientation phase to the discipline of Fixed Prosthodontics. It provides a structured framework for the students to learn the scientific basis and fundamental principles of Fixed Prosthodontics. It prepares the student for the practice of sound clinical Fixed Prosthodontics through a pre-clinical phase of mechanical and technical procedures.

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	Crown & Bridge Restorations
4-Name of the lecturer(s).	Dr. Doaa Mohamed
5-Available forms of attendance	Theoretical and practical
6-Semester/year	1 st + 2nd semester/3 th stage
7-Number of study hours (total)	30 hours
8-The date this description was prepared	2023-10-15
9- Course objectives	
A systematic scientific study of Fixed Prosthodontics. Students at the end should know how to define, describe, classify and identify the different dental techniques, concepts, procedures and materials for fixed prosthesis.	

10.Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives By the end of this course the student should have the following knowledge: A1- Types of Fixed Prosthesis A2- Types of Pontics A3- Types of Laboratory materials A4- Laboratory steps used for fabrication A5- Laboratory failures and how to repair				
B - The skills objectives of the course. B1-Correlate between functions & components of different oral structures, dental techniques, concepts, procedures and materials for fixed prosthesis. B2-Demonstrate and perform skills for hands-eye coordination during various pre-clinical procedures and techniques for fabrication and repairing of various fixed prosthesis. B3-Demonstrate collaborative teamwork and leadership spirit during learning, performing & using various fixed prosthetic options, techniques, materials, instruments, equipment& procedures.				
Teaching and learning methods Using PowerPoint (practical and theoretical) Using interactive laboratory sessions				
Evaluation methods 1- Monthly exams 2- Laboratory Reports 3- Discussions in practical sessions 4-Group discussions in Lectures				
C- Emotional and value goals 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 to distinguish between different fixed prosthesis D2 - Teaching the student to distinguish between different lab techniques D3 - Teaching the student about Laboratory errors and repair				

Evaluation method	Teaching method	Name of the unit/topic	hrs	Week
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	Theoretical	Introduction to Fixed Prosthodontics	2	First
	Theoretical	Pontic Design	2	Second
	Theoretical	Working Casts & die systems	2	Third
	Theoretical	Working Casts & Die systems	2	Fourth
	Theoretical	Connectors	2	Fifth
	Theoretical	Dental Waxes	2	Sixth
	Theoretical	Dental Waxes	2	Seventh
	Theoretical	Full Metal Restorations	2	Eighth
	Theoretical	Porcelain Fused to Metal Restorations	2	Ninth
	Theoretical	All Ceramic Restorations	2	Tenth
	Theoretical	All Ceramic Restorations	2	Eleventh
	Theoretical	Dental Implants	2	Twelfth
	Theoretical	Dental Implants	2	Thirteenth
	Theoretical	Adhesive Bridge	2	Fourteenth
	Theoretical	Spruing	2	Fifteenth
	Theoretical	Investing Material	2	Sixteenth
	Theoretical	Investing Procedure	2	Seventeenth
	Theoretical	Burn out	2	Eighteenth
	Theoretical	Casting	2	Nineteenth
	Theoretical	Casting Failure	2	Twenty
	Theoretical	Casting Failure	2	Twenty-one

11.Infrastructure

Required prescribed books	Contemporary Fixed Prosthodontics, Stephen F. Rosenstiel-4th edition
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Main references

A- Recommended books and references (scientific journals, reports,)	Fundamentals of Fixed Prosthodontics, Herbert T. Shillingberg-4th edition
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B - Electronic references, Internet sites...

12.Course development plan

Adding self-study subjects and cultural events and including them in future plans to increase knowledge and develop students' scientific skills

Partial Denture

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	Partial Denture (Advanced)
4-Name of the lecturer(s).	Associate professor Dr. Eman Gamal Helal
5-Available forms of attendance	Theoretical and practical
6-Semester/year	1 st semester/ 3 th stage
7-Number of study hours (total)	240 hours
8-The date this description was prepared	2023
9- Course objectives	
Studying of different treatment plans for the partially edentulous cases and fabrication of the Metal partial dentures	

13. Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives A1- Introducing the student to partially edentulous cases A2- Introducing the student to the Kennedy classification A3- Introducing the student to the different designs for the partial dentures. A4- recognition of the materials used in metal partial dentures.
B – Course skills objectives 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 metal partial dentures B4 fabrication of the metal partial dentures partial denture
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 metal partial dentures

11. Course structure				
Evaluation method	Teaching method	Name of the unit/topic	hours	Week
Quizzes	theoretical	Partially edentulous arch	2	the first

Quizzes	theoretical	Major connector: lower.	2	the second
Quizzes	theoretical	Major connector: upper.	2	the third
Quizzes	theoretical	Minor connector	2	the fourth
Quizzes	theoretical	Rest and rest seats	2	Fifth
Quizzes	theoretical	Direct retainer. Intracoronal retainer	2	Sixth
Quizzes	theoretical	Direct retainer. Extracoronal retainer	2	Seventh
Quizzes	theoretical	Indirect retainer	2	Eighth
Quizzes	theoretical	Denture base	2	Ninth
Quizzes	theoretical	Stress breaker	2	Tenth
Quizzes	theoretical	Impressions materials.	2	Eleventh
Quizzes	theoretical	Principles of R.P.D. design	2	Twelfth
Quizzes	theoretical	Articulator.	2	Thirteenth
Quizzes	theoretical	Surveying	2	Fourteenth
Quizzes	theoretical	Support of distal extensions denture base	2	Fifteenth
Quizzes		Establishment of occlusal relationship		16 th
Quizzes	theoretical	Duplication		17 th
Quizzes	theoretical	Wax pattern		18 th
Quizzes	theoretical	Spruing		19 th
Quizzes	theoretical	Investing		20 th
Quizzes	theoretical	Factor in selecting metal alloy for R.P.D. frame work.		21 th
Quizzes	theoretical	Burn out and casting		22 nd
Quizzes	theoretical	Finishing & polishing		23 rd
Quizzes	theoretical	Soldering and welding		24 th
Quizzes	theoretical	Principles of setting teeth		25
Quizzes	theoretical	Sectional denture 1		26
Quizzes	theoretical	Sectional denture 2		27

Quizzes	theoretical	Relining		28
Quizzes	theoretical	Post insertion complication		29
		Examination		30

15. Infrastructure	
Required prescribed books	Stewart's clinical removable partial prosthodontics, 3rd ed ∪ McCrackens removable partial prosthodontics, 12th ed
Main references	
A- Recommended books and references (scientific journals, reports,)	Stewart's clinical removable partial prosthodontics, 3rd ed ∪ McCrackens removable partial prosthodontics, 12th ed ∪ Removable partial dentures-A Practitioners' Manual, Olcay Şakar ∪ Seidin A. Occlusal rests and rest seats. J Prosthet Dent 1958;8: 431-440. ∪ 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 ∪ Removable partial dentures..

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