Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Al-Kitab University

Faculty/Institute: College of Medical Technology

Scientific Department: Department of Dental Techniques

Academic or Professional Program Name: Bachelor of Dental Industry

Final Certificate Name: Bachelor of Dental Industry

Academic System: The first and second stages are semester, the third and fourth stages are annual

Description Preparation Date: 2/2/2024

File Completion Date: 30/3/2024

Signature:

Head of Department Name: Dr. Hangan

Date: 7- April -2024

Signature:

Scientific Associate Name: Dr. Saifaddi Sabir Ali

Date: 7- Apr- 2024

The file is checked by: الدكتور احمد مازن ابراهيم

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department

Date: 8/4/2024

Signature:

Approval of the Dean

Dr. Saifaddin S. Ali

1. Program Vision

The Department of Dental Industry Techniques has a unique scientific position in the scientific and academic community locally and regionally and plays an effective and influential applied role in the technical and medical field, as it works in dental industry laboratories to create alternative teeth for patients (dental prostheses) according to descriptions and standards at the request of the dentist, and these compensations include: bridges, implants, and dentures. The dental technician produces these prostheses by mechanical manual labor using special machines and tools.

2. Program Mission

1-Performs the laboratory steps related to the partial and complete coronal and metal moving sets.

2- Completes the laboratory steps related to the manufacture of metal, ceramic and plastic bridges.

3- Completes the laboratory steps related to the manufacture of maxillofacial prostheses.

4- Performs laboratory steps for mobile orthodontic devices only.

5- Operates and maintains laboratory equipment for dental industry laboratories

3. Program Objectives

The department aimed to graduate technical staff working in dental industry laboratories and be able to complete all steps related to the manufacture of orthodontic alternatives for fixed and mobile teeth and maxillofacial compensation The main objective of the Department of Dental Industry is to train the student and teach him and prepare him theoretically and practically to graduate a dental industry technician who has the distinguished and advanced technical skill as well as knowledge of laboratory materials and devices and how

to deal with them and inform them of the types of laboratories and methods of furnishing and management, as well as trying The department and constantly introduce all new and useful with a focus on the scientific aspects and delete all the old does not fit the march of scientific and technical development, especially after the development in technical education and the establishment of the Central Technical University and finally the department aims to graduate technical staff working in the dental industry laboratories and be able to complete all steps in the manufacture of orthodontic alternatives fixed and mobile and facial and maxillofacial compensation

4. Program Accreditation

The approved program is prepared by the sectoral committee in the Ministry of Higher Education and Scientific Research

5. Other external influences

Field visits and training in health centers and laboratories

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	32 courses distributed in four stages	194	100%	Courses System (170) Work is currently underway on the first and second phases

College Requirements	32 courses distributed in four stages	194	100%	Courses System (170) Work is currently underway on the first and second phases
Department Requirements	32 courses distributed in four stages	194	100%	Courses System (170) Work is currently underway on the first and second phases
Summer Training	College Requirements for Graduation			
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First Stage / First Course	KU MT DI 111	Dental Anatomy (primary)	2	4
	KU MT DI 112	Dental materials (primary)	2	4
	KU MT DI 113	Dental Appliance Technologies (primary)	2	4
	KU MT DI 114	Occupational Safety	2	___
	KU MT DI 115	Computer Principles 1	1	2
	KU MT DI 116	English language		___
	KU MT DI 117	Human Rights and Democracy	2	___
First stage / second course	KU MT DI 121	Dental anatomy (average)	2	4
	KU MT DI 122	Dental material (average)	2	4
	KU MT DI 123	Dental Appliance Techniques (Intermediate)	2	4
	KU MT DI 124	General physics	2	4
	KU MT DI 125	General chemistry	2	4
	KU MT DI 126	Arabic language	2	___
	KU MT DI 127	Computer Principles 2	1	2
Second Stage / First Course	KU MT DI 211	Crown and bridge	2	3
	KU MT DI 212	Complete denture	2	3
	KU MT DI 213	Partial denture	2	3
	KU MT DI 214	Dental material	2	3
Second Stage / Second Course	KU MT DI 221	Oral physiology	2	3
	KU MT DI 222	Anatomy and physiology of the mouth	1	3
	KU MT DI 223	Partial denture	2	3
	KU MT DI 224	Crown and bridge	2	3
Third stage	KU MT DI 301	Complete denture	2	4

Third stage	**KU MT DI 302**	Partial denture	2	4
Third stage	**KU MT DI 303**	orthodontics	2	3
Third stage	**KU MT DI 304**	Crown and bridge	2	4
Third stage	**KU MT DI 305**	Maxillofacial prosthesis	2	3
Third stage	**KU MT DI 306**	Medical science	1	2
Third stage	**KU MT DI 307**	Research methods	2	___
Third stage	**KU MT DI 308**	Computer Applications	1	2
Fourth stage	**KU MT DI 401**	Complete denture	2	4
Fourth stage	**KU MT DI 402**	Partial denture	2	4
Fourth stage	**KU MT DI 403**	orthodontics	2	3
Fourth stage	**KU MT DI 404**	Crown and bridge	2	4
Fourth stage	**KU MT DI 405**	Maxillofacial prosthesis	2	3
Fourth stage	**KU MT DI 406**	Graduation project	___	_____
Fourth stage	**KU MT DI 407**	Dental implant	2	3
Fourth stage	**KU MT DI 408**	Professional ethics	2	___

8. Expected learning outcomes of the program

Knowledge	
1 -Learn how to manufacture prosthetic devices. 2- Methods of diagnosis. 3- Treatment methods. 4- Methods and compensation for the lost teeth and surrounding tissues and preserving the existing	Learning Outcomes Statement 1
Skills	
1 -The student should be able to diagnose cases of total and partial missing tooth compensation. 2- The student learns about dental materials, their chemical	Learning Outcomes Statement 2

reactions, their physical properties and how they are used. 3- Teaching the student to carry out laboratory steps in the work of prosthetic dentures 4- The student realizes the importance of replacing missing teeth by installing mobile devices	
Learning Outcomes 3	Learning Outcomes Statement 3
Ethics	
1 -The student should interact during the lecture 2- The student should listen to the professor's explanation 3- He should interact and love to do extracurricular activities 4- He likes to do homework	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

9. Teaching and Learning Strategies

1 -Giving scientific and theoretical lectures using information technology in the college (computer and Internet)

2- Providing students with the basics and additional topics related to the previous education outcomes of skills, to solve practical problems

3- Applying theoretically studied topics at the practical level in the field of dental industry.

4- Working in educational laboratories to graduate and prepare skilled and efficient technical medical cadres with high levels of professionalism The summer training enhances the student's skill and refines it to accomplish all steps related to his field of work efficiently

10. Evaluation methods

1 -Daily tests.

2- Quarterly tests.

3- Final exams.

4. Scientific reports.

5- Commitment to permanence.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assistant prof		1			1	
lecturer		5			3	2
Assistant lecturer	2	5			7	

Professional Development

Mentoring new faculty members

Directing new teaching staff members, you need to:

1- Orientation and training program: There must be an integrated program to guide and train them on the policies and procedures of the educational institution, effective teaching methods, the use of technology in education, and dealing with students and parents.

2- Educational materials: The necessary educational materials must be provided to help them prepare and deliver lessons effectively.

3- Technical support: There must be technical support available to them in case they encounter technical problems while using technology in education.

4. Reviews and evaluations: Periodic reviews and evaluations of their performance should be provided to identify strengths and weaknesses and provide the necessary guidance and support.

5- Administrative support: They need administrative support to help manage day-to-day business and administrative procedures. 6- Professional development opportunities: Professional development opportunities and continuous training should be provided to faculty members

Professional development of faculty members

For the professional development of faculty members, the following elements must be provided:

1- Training programs and workshops: Providing training programs and workshops in various fields such as modern teaching techniques, curriculum development, educational evaluation, and personal and social skills development.

2- Online Learning Opportunities: Provide easy and flexible access to online courses in various fields such as educational technology, language skills development, and classroom management.

3- Participation in conferences and seminars: Encouraging faculty members to participate in local and international conferences and seminars to exchange experiences and knowledge and follow up on the latest innovations in the field of education.

4- Performance evaluation and feedback: Provide effective mechanisms to evaluate the performance of faculty members and provide them with feedback to identify strengths and weaknesses and identify areas in which they need development.

5- Motivation and Encouragement Programs: Establishing incentive programs that encourage faculty members to continue learning and achieve professional development.

6- Individual mentoring: Provide individual orientation sessions for faculty members to discuss their career goals and identify the necessary steps to achieve them.

7- Provide leadership opportunities: Provide opportunities to participate in administrative and leadership activities within the educational institution, which helps them develop leadership and organizational skills.

8. Constructive communication with the Continuing Education Division

12. Acceptance Criterion

1 -Central acceptance of morning studies

2- According to the controls specified by the Ministry of Higher Education through central admission

3- Scientific fees

13. **The most important sources of information about the program**
1-Basic Guide to Dental Materials" by Carmen Scheller-Sheridan: This book provides a comprehensive overview of the materials used in the dental industry and how to use them. 2- "Contemporary Fixed Prosthodontics" by Stephen F. Rosenstiel, Martin F. Land, and Junhei Fujimoto: This book covers multiple aspects of fixed dental manufacturing techniques 3- "Dental Laboratory Technology: Fixed and Special Prosthodontics" by William J. O'Brien: This book introduces advanced techniques for the design and manufacture of fixed teeth and special prostheses 4-Phillips' Science of Dental Materials" by Kenneth J. Anusavice: This book is considered a comprehensive reference in the field of dental materials and their clinical applications. 5- "Dental Laboratory Procedures: Complete Dentures" by Charles F. O'Brien: This book covers complete dental manufacturing processes and forming and finishing techniques. .

14. Program Development Plan
Stage I: Assessment of the current situation 1. Conduct a comprehensive evaluation of the current academic program of the Department of Dental Technologies.

2. Identify the strengths, weaknesses, opportunities and challenges of the current program.

3. Conduct a survey of the opinions of students, graduates of the program and faculty members to determine the areas in which the program needs to develop.

Stage II: Setting goals and priorities

1. Set specific and measurable goals for the development of the academic program.

2. Identify priorities and key areas to focus on to improve the program

.

Stage III: Planning and Implementation

1. Develop updated educational curricula that include the latest developments and technologies in the field of dental industry technologies.

2. Create new educational courses covering modern and advanced topics in the dental industry.

3. Develop practical and laboratory training programs that allow students to apply theoretical concepts in a practical environment.

4. Modernization and development of Laboratories facilities and equipment to be compatible with the latest technologies and standards in the field.

5. Provide external learning opportunities through field visits to dental industry laboratories and facilities.

Fourth Stage: Evaluation and Follow-up

1. Evaluate the developed program through the use of specific evaluation metrics and indicators.

2. Gather feedback from students, faculty, and employers on the effectiveness of the changes made.

3. Make additional adjustments and improvements based on evaluation results and feedback.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First stage	KU MT DI 112	Dental materials	basic						✓	✓		✓	✓	✓	✓
	KU MT DI 113	Dental appliance technologies	basic	✓	✓	✓				✓	✓	✓	✓	✓	✓
	KU MT DI 111	Dental anatomy	basic	✓	✓	✓	✓					✓	✓	✓	✓
	KU MT DI 114	Occupational safety	basic									✓	✓	✓	✓
	KU MT DI 117	Human rights	basic									✓	✓	✓	✓
	KU MT DI 115	Computer principles	basic									✓	✓	✓	✓
	KU MT DI 116	English language	basic									✓	✓	✓	✓

	KU MT DI 124	General physics	basic									✓	✓	✓	✓
	KU MT DI 125	General chemistry	basic									✓	✓	✓	✓
	KU MT DI 126	Arabic language	basic									✓	✓	✓	✓
	KU MT DI 211	Crown and bridge	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 212	Complete denture	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 213	Partial denture	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 214	Dental materials	basic						✓	✓		✓	✓	✓	✓
	KU MT DI 221	Oral physiology	basic									✓	✓	✓	✓
	KU MT DI 222	Anatomy and physiology of the mouth	basic									✓	✓	✓	✓
	KU MT DI 301	Complete denture	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

	KU MT DI 302	Partial denture	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 303	orthodontics	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 304	Crown and bridge	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 305	تعويضات الوجه والفكينmaxillo facial prosthesis	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 306	Medical science	basic									✓	✓	✓	✓
	KU MT DI 307	Research methods	basic									✓	✓	✓	✓
	KU MT DI 308	Computer applications	basic									✓	✓	✓	✓
	KU MT DI 401	Complete denture	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 402	Partial denture	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 403	orthodontics	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

	KU MT DI 404	Crown and bridge	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 405	Maxillofacial prosthesis	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 406	Graduation project	basic									✓	✓	✓	✓
	KU MT DI 407	Dental implant	basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KU MT DI 408	Professional ethics	basic									✓	✓	✓	✓

- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

1. Course Name: Dental Anatomy
2. Course Code:
3. Semester / Year: 2023-2024
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60
7. Course administrator's name (mention all, if more than one name)
Name: Saya Hadi Raouf Email: saya.h.raouf@uoalkitab.edu.iq
8. Course Objectives

Course Objectives	**to knowing anatomical landmarks** **To understand numbering system of humann dentition** **To diffrentaite all the teeth and knowing its shape and features**

9. Teaching and Learning Strategies	
Strategy	• ¡ student centered teaching with group discussion and ppt , pictures and videos .

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Introduction.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
2	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Numbering system	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

3	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Anatomical landmarks	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
4	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent maxillary central incisor	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent maxillary lateral incisor	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent maxillary canine	Presenting and clarifying the lecture during the theoretical lecture and then applying it	Regular attendance, discussion and practical application in the laboratory

				practically in the laboratory	
7	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent mandibular central incisor	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent mandibular later incisor		
9	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent mandibular canine	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent mandibular 1st and 2nd premolar	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

11	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent maxillary 1st and 2nd premolar	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent maxillary 1st molar	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent mandibular 1st and 2nd and 3rd molar	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14		The student must acquire good and sufficient knowledge in the theoretical and practical field	Permanent maxillary 2nd and 3rd molar	Presenting and clarifying the lecture during the theoretical lecture and then applying it	Regular attendance, discussion and practical application in the laboratory

				practically in the laboratory	
15	2	First course exam			

11. Course Evaluation	
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 15 Practical Exam + 25 Theory Exam Final exam = 60% distributed between 25 Practical Exam + 35 theory Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Wheelers human anatomy and physiology
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

13. Course Name: Oral physiology
14. Course Code:
15. Semester / Year: 2023-2024
semester
16. Description Preparation Date:
12/03/2024 AD
17. Available Attendance Forms:
12/03//2024 AD
18. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60
19. Course administrator's name (mention all, if more than one name)
Name: Saya Hadi Raouf Email: saya.h.raouf@uoalkitab.edu.iq
20. Course Objectives

Course Objectives	studying the science of rule of physiological functions in human body.

21. Teaching and Learning Strategies

Strategy	• ı student centered teaching with group discussion and ppt , pictures and videos .

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Introduction.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
2	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Basic body (cell..)	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Physiology of circulation	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
4	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	blood	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

5	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	saliva	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	saliva	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Mastication (teeth &TMJ)	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	2	The student must acquire good and sufficient knowledge in th theoretical and practical field	Check		
9	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Lip	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Tongue	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

11	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Physiology of speech	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Physiology of speech	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	pharynx	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Soft palates to speech problem	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
15	2	First course exam			
23. Course Evaluation					
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 15 Practical Exam + 25 Theory Exam Final exam = 60% distributed between 25 Practical Exam + 35 theory Exam					
24. Learning and Teaching Resources					

Required textbooks (curricular books, if a	Wheelers human anatomy and physiology
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Orthodontic
2. Course Code:
3. Semester / Year:
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD

6. Number of Credit Hours (Total) / Number of Units (Total)	
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3	
7. Course administrator's name (mention all, if more than one name)	
Name: **Basma Mushatet Hasan** Email: **basmahasan79@**gmail.com	
8. Course Objectives	
Course Objective	• Providing students with an understanding of the basics of orthodontics • enhance the student dealing with different materials and techniques that used in construction removable applaince . make the student efficiently able to construct removable applaince
9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps.

	• Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of complete denture construction	Orthodontic terms.	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical application in the laboratory
2	3	The student must acquire good and sufficient	Development of normal occlusion	Presenting and clarifying the lecture during the theoretical	Regular attendance, discussion and practical application in the laboratory

		knowledge in the theoretical and practical field		lecture and then applying it practically in the laboratory	
3	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Andrews's keys.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Orthodontic wires & its properties.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Development of the primary teeth.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	3	The student must acquire good and		Presenting and clarifying the lecture	Regular attendance, discussion and practical application in the laboratory

		sufficient knowledge in the theoretical and practical field	Development of the primary teeth	during the theoretical lecture and then applying it practically in the laboratory	
7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Development of the permanent teeth.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Development of the permanent teeth.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Etiology of normal occlusion.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Open bite	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Cross bite	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Deep bite	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the	Soldering & welding	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical application in the laboratory

		theoretical and practical field		applying it practically in the laboratory	
15	3	First course exam			
16	3	The student m acquire good sufficient knowle in the theoretical practical field	Bite plane its modificatio	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good sufficient knowle in the theoretical practical field	Removable orthodontic appliance constructio	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam

Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name: Head and neck anatomy
Computer Applications
2. Course Code:
3. Semester / Year: 2023-2024
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)

Number of units: 3
Course: (2) theoretical + (2) practical Total : 60

7. Course administrator's name (mention all, if more than one name)

Name: Ribaz Tahsin Hayas
Email: dr.rebaz.tahsin@uoalkitab.edu.iq

8. Course Objectives

Course Objectives	Develop a microscopic-level comprehension of human tissue, including the structure, function, and organization of cells and tissues.

9. Teaching and Learning Strategies

Strategy	• Evaluate and assess the developmental process of human embryonic and fetal periods, analyze congenital abnormalities, and integrate embryology to adult human gross anatomy.

10. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	2	The student must acquire good and	Introduction.	Presenting and clarifying the lecture	Regular attendance,

		sufficient knowledge in the theoretical and practical field		during the theoretical lecture and then applying it practically in the laboratory	discussion and practical application in the laboratory
2	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Anatomical terminology.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Skull: Anterior, lateral & posterior views.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Frontal.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Maxilla.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Maxilla.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Mandible	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	3	The student must acquire good and sufficient knowledg in the theoretical ar practical field	Mandible		

9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Zygomatic bone.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Nasal bone, ethmoidal bone, vomer.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Orbit.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge in the	Muscles of facial expression.	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

		theoretical and practical field		applying it practically in the laboratory	application in the laboratory
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Muscles of mastication.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Sensory innervations of the face.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
15	3	First course exam			

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 15 Practical Exam + 25 Theory Exam Final exam = 60% distributed between 25 Practical Exam + 35 theory Exam
12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Atlas of Human Anatomy, fifth edition ; frank H Netter,MD, 2011.

Main references (sources)	Human Anatomy; Michael McKinley and Valerie Dean O'Loughlin, 2006.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

25. Course Name: Partial Denture
Computer Applications
26. Course Code:
27. Semester / Year: 2023-2024
semester
28. Description Preparation Date:
12/03/2024 AD
29. Available Attendance Forms:
12/03//2024 AD
30. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60

31. Course administrator's name (mention all, if more than one name)
Name: Ribaz Tahsin Hayas Email: dr.rebaz.tahsin@uoalkitab.edu.iq
32. Course Objectives

Course Objectives	• Restore esthetic (especially for anterior teeth), Restore function (phonetic and mastication) for proper speech, proper occlusion and proper food mastication.
33. Teaching and Learning Strategies	
Strategy	• Removable partial dentures are a viable option if you already have a few healthy teeth. The denture connects to other healthy teeth, which reduces the amount of surgery you'll need for the treatment compared to other in-depth procedures, such as complete dentures.
34. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Partial denture Introduction	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
2	2	The student must acquire good and sufficient knowledge in the theoretical and practical field	Making the clasp	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Waxing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Processing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Trimming of the cast.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Finishing and Polishing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Repairing of acrylic P.D	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

				applying it practically in the laboratory	application in the laboratory
8	3	Monthly exam	**امتحان شهري**		
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Crom_cobult P.D	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Miner connecter	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Surveying	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

12	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Rest and Rest seat	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Direct Retainer	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Intra coronal retainer	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
15	3	First course exam			
35. Course Evaluation					
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 15 Practical Exam + 25 Theory Exam					

Final exam = 60% distributed between 25 Practical Exam + 35 theory Exam	
36. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1. D Nallaswamy - 2008 - Jaypee brothers publishers Textbook of prosthodontics.
Main references (sources)	1. McCracken, William L ;Brown, David T ;David Theodore ;McCracken, William L ;Removable partial prosthodontics McCracken's removable partial prosthodontics (2011)
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Computer Applications
2. Course Code:
3. Semester / Year:
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3
7. Course administrator's name (mention all, if more than one name)
Name: **Shaymaa Mudher Yousef** Email: **shaymaa.alnoory@gmail.com**
8. Course Objectives

Course Objective	• Providing students with an understanding of the basics of computer applications and their use in solving problems.

	• Teaching students how to use common software and computer applications in their scientific fields. • Developing creative and analytical thinking skills through the use of computer applications to solve problems and apply theories. • Motivating students to explore technology and its modern developments in their fields of study. • Developing students' abilities to deal with digital data and information effectively and accurately. • Enhancing the ability to cooperate and teamwork through the use of computer applications in joint projects and activities
9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical experiences and applying theoretical concepts to real-life examples. For example, they can write small programs or applications and try them out themselves.

	• Cooperative learning: This approach encourages teamwork and knowledge sharing among students. Students can collaborate to solve problems or develop software projects together. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply and apply them in a real-life context. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	General concepts	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
2	3	The student must acquire good and sufficient knowledge in the	Hardware	Presenting and clarifying the lecture	Regular attendance,

		theoretical and practical field of computer science		during the theoretical lecture and then applying it practically in the laboratory	discussion and practical application in the laboratory
3	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Software, Networks and Data Security	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Desktop	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Create and print files	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Work with folders and files	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Basic desktop and system maintenance	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Word processing – first steps	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Word processing - formatting	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

				applying it practically in the laboratory	application in the laboratory
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Word processing – basic operations	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Text processing – tabs, borders, menus and page layout	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of computer science	Word processing - using tables	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the	Word processing–	Presenting and clarifying the lecture during the theoretical	Regular attendance, discussion and

		theoretical and practical field of computer science	Headers, footers and objects	lecture and then applying it practically in the laboratory	practical application in the laboratory
15	3	First course exam			

11. Course Evaluation	
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if an	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	https://www.scribd.com/docs https://edu.gcfglobal.org/en/word2016/ https://www.edumple.com/class-3/computer-science/chapter-3-exploring-the-world-of-windows-10-features-of-windows-10-windows-10-desktop-iconstaskbarstart-menu/notes

	https://edu.gcfglobal.org/en/windowsbasics/working-with-files/1/

1. Course Name:
Partial denture
2. Course Code:
3. Semester / Year:
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)

Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3	
7. Course administrator's name (mention all, if more than one name)	
Name: **Shanai M. Atyaa** Email: **dr.shanai@yahoo.co.uk**	
8. Course Objectives	
Course Objective	• Providing students with an understanding of the basics steps of partial denture preparation. • enhance the student dealing with different materials and techniques that used in construction of partial denture . make the student efficiently able to construct partial denture
9. Teaching and Learning Strategies	

Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.	

10. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	3	The student must acquire good and sufficient knowledge in	Partial edentulous arch	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical

		the theoretical and practical field of complete denture construction			application in the laboratory
2	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Major connector of lower arch	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Major connector of lower arch	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Rest & rest seat	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Direct retainer: intracoronal retainer	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	3	The student must acquire good and sufficient knowledge in the theoretical	Direct retainer extra coronal	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		and practical field			
7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Indirect retainer	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Denture base considration	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient	Stress breaker	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

		knowledge in the theoretical and practical field		applying it practically in the laboratory	application in the laboratory
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Principle of r.p.d	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	articulator	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	3	The student must acquire good and	Duplication, wax pattern, spruing	Presenting and clarifying the lecture during the theoretical	Regular attendance, discussion and

		sufficient knowledge in the theoretical and practical field		lecture and then applying it practically in the laboratory	practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	investing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
15	3	First course exam			
16	3	The student m acquire good sufficient knowle in the theoretical practical field	Factor selecting metal al for r.p.d	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good	Burn out casting,	Presenting clarifying the lect	Regular attendance,

		sufficient knowle in the theoretical practical field	finishing polishing	during theoretical lect and then applyin practically in laboratory	discussion and practical application in the laboratory

11. Course Evaluation	
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Partial denture
2. Course Code:
3. Semester / Year:
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3
7. Course administrator's name (mention all, if more than one name)
Name: **Farhad Wahid Rasool** Email: **Farhad.Wahid@uoalkitab.edu.iq**

8. Course Objectives	
Course Objective	• Providing students with an understanding of the basics steps of partial denture preparation. • enhance the student dealing with different materials and techniques that used in construction of partial denture . make the student efficiently able to construct partial denture
9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson.

	• Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of complete	Introduction Of Removable Partial Denture and Kennedy's Classification	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical application in the laboratory

		denture construction			
2	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Maxillary Major Connectors	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must acquire good and sufficient knowledge in the theoretical and	Mandibular Major Connectors	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Minor Connector	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and sufficient knowledge in the theoretical and	Direct Retainer: Intracranial and Extra coronal Retainer	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Indirect Retainer	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	3	The student must acquire good and sufficient knowledge in the theoretical and	Rest & Rest Seat	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Denture base consideration and Distal Extension	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient knowledge in the theoretical and	Dental survyor	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Duplication Stone cast, and wax pattern, spruing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge in the theoretical and	Investing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Burn out & casting, finishing & polishing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the theoretical and	Principles of Setting Teeth In Removable Dentures	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
15	3	First course ex			
16	3	The student m acquire good sufficient knowledge in theoretical practical field	Factor Effecting of selecting metal alloy In RPD	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good sufficient knowledge in theoretical practical field	Occlusion in RPD	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
11. Course Evaluation					

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Complete denture
2. Course Code:
3. Semester / Year:
Semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3
7. Course administrator's name (mention all, if more than one name)
Name: **Farhad Wahid Rasool** Email: **Farhad.Wahid@uoalkitab.edu.iq**
8. Course Objectives

Course Objective	• Providing students with an understanding of the basics steps of complete denture preparation.

	• enhance the student dealing with different materials and techniques that used in construction of complete denture . make the student efficiently able to construct complete denture
9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which

	enhances their understanding of the material and helps them improve their performance.	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of complete denture construction	Introduction in Complete Denture	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical application in the laboratory
2	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Impression materials In Complete Denture	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must acquire good and sufficient	Special tray	Presenting and clarifying the lecture during the theoretical	Regular attendance, discussion and

		knowledge in the theoretical and practical field		lecture and then applying it practically in the laboratory	practical application in the laboratory
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Record base, and Occlusal rim	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Maxillo-mandibular relationship	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Articulater, and Face bow	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Mounting,	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Occlusion In Complete Denture	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Mandibular movement	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Selection of artificial teeth	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Arrangement of artificial teeth In Class. I& lI	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Arrangement of artificial teeth In Class IlI	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient	Waxing, Carving	Presenting and clarifying the lecture during the theoretical	Regular attendance, discussion and

		knowledge in the theoretical and practical field	Procedure Complete Denture	lecture and then applying it practically in the laboratory	practical application in the laboratory
15	3	First course exam			
16	3	The student m acquire good sufficient knowledg the theoretical practical field	Dew axing Packing Mixing, curing and defalsking complete Denture	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good sufficient knowledg the theoretical practical field	Finishing, and Polishing	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
11. Course Evaluation					
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.					

Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Complete denture
2. Course Code:
3. Semester / Year:
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3
7. Course administrator's name (mention all, if more than one name)
Name: **Shanai M. Atyaa** Email: **dr.shanai@yahoo.co.uk**
8. Course Objectives

Course Objective	• Providing students with an understanding of the basics steps of complete denture preparation. • enhance the student dealing with different materials and techniques that used in construction of complete denture . make the student efficiently able to construct complete denture
9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply.

	• Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of complete denture construction	Anatomical land mark of upper complete denture	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical application in the laboratory

2	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Anatomical land mark of lower complete denture	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Impression materials for complete denture	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Special tray ,record base, and occlusal rim	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Maxillo_mandibular relation ship	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Mounting,Articulater, and Face bow	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Occlusion	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	3	Monthly exam			

9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Word processing – first steps	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Mandibular movement	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Selection of artificial teeth	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Waxing, and Carving	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Arrangement of artificial teeth Cl I& lI & three	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Post dam , Flasking, and Packing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
15	3	First course ex			

16	3	The student m acquire good sufficient knowledge in theoretical practical field	Finishing, Polishing	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good sufficient knowledge in theoretical practical field	Retention Stability	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	

Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Maxillofacial Prosthesis
2. Course Code:
3. Semester / Year:
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:

12/03//2024 AD	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3	
7. Course administrator's name (mention all, if more than one name)	
Name: C**arlos Patrus Shabilla Ibrahim** Email: **carlos_shabilla@yahoo.com**	
8. Course Objectives	
Course Objective	• Providing students with an understanding of the basics steps of Maxillofacial Prosthesis • enhance the student dealing with different materials and techniques that used in construction of Maxillofacial prosthesis . make the student efficiently able to construct Maxillofacial prosthesis

9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.

10. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	3	The student must acquire good and sufficient	Introduction : definition, Indication of maxillofacial.	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical

		knowledge in the theoretical and practical field of complete denture construction			application in the laboratory
2	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Treatment rooms (Clinical and laboratory) and waiting room facilities in maxillofacial prosthesis.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must acquire	Anatomy of the Eye	Presenting and clarifying the lecture during the theoretical	Regular attendance, discussion and

		good and sufficient knowledge in the theoretical and practical field		lecture and then applying it practically in the laboratory	practical application in the laboratory
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Facial proportions: Vertical plane, horizontal planes.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and	Facial portions: Boney prominence lines &wrinkles.	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

		sufficient knowledge in the theoretical and practical field		applying it practically in the laboratory	application in the laboratory
6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Eye Prosthesis	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	3	The student must acquire good and sufficient	Problems in eye Prosthesis	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

		knowledge in the theoretical and practical field		applying it practically in the laboratory	application in the laboratory
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Eye prosthesis construction	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient	Impression materials used in Eye maxillofacial.	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

		knowledge in the theoretical and practical field		applying it practically in the laboratory	application in the laboratory
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Materials used in construction of facial prosthesis.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge	Ear anatomy	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		in the theoretical and practical field			
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Partial and complete Ear Prosthesis	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the	Construction of the ear prosthesis.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		theoretical and practical field			
15	3	First course ex			
16	3	The student m acquire good a sufficient knowledge in theoretical a practical field	Ear Prosthesis Classification problems	Presenting a clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good a sufficient knowledge in theoretical a practical field	Retention maxillofacial Prosthesis	Presenting a clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
11. Course Evaluation					
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam					

Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Maxillofacial Prosthesis
2. Course Code:
3. Semester / Year:

semester	
4. Description Preparation Date:	
12/03/2024 AD	
5. Available Attendance Forms:	
12/03//2024 AD	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3	
7. Course administrator's name (mention all, if more than one name)	
Name: C**arlos Patrus Shabilla Ibrahim** Email: **carlos_shabilla@yahoo.com**	
8. Course Objectives	
Course Objective	• Providing students with an understanding of the basics steps of Maxillofacial Prosthesis • enhance the student dealing with different materials and techniques that used in construction of Maxillofacial prosthesis . make the student efficiently able to construct Maxillofacial prosthesis

9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.

10. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**

1	3	The student must acquire good and sufficient knowledge in the theoretical and practical field of complete denture construction	Introduction : definition, Indication of maxillofacial.	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical application in the laboratory
2	3	The student must acquire good and sufficient knowledge in the theoretical and	Treatment rooms (Clinical and laboratory) and waiting room facilities in maxillofacial prosthesis.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
3	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Anatomy of the Eye	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
4	3	The student must acquire good and sufficient knowledge in the theoretical and	Facial proportions: Vertical plane, horizontal planes.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Facial portions: Boney prominence lines &wrinkles.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	3	The student must acquire good and sufficient knowledge in the theoretical and	Eye Prosthesis	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Problems in eye Prosthesis	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and	Eye prosthesis construction	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
10	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Impression materials used in Eye maxillofacial.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
11	3	The student must acquire good and sufficient knowledge in the theoretical and	Materials used in construction of facial prosthesis.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
12	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Ear anatomy	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	3	The student must acquire good and sufficient knowledge in the theoretical and	Partial and complete Ear Prosthesis	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
14	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Construction of the ear prosthesis.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
15	3	First course ex			
16	3	The student m acquire good sufficient knowledge in theoretical practical field	Ear Prosthesis Classification problems	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory

17	3	The student m acquire good sufficient knowledge in theoretical practical field	Retention maxillofacial Prosthesis	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Crown and bridges
2. Course Code:
3. Semester / Year:
semester
4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3
7. Course administrator's name (mention all, if more than one name)
Name: **omar Muhammed faruq abdlrahman**

Email: **omercheleby@yahoo.com**	
8. Course Objectives	
Course Objective	• Providing students with an understanding of the basics steps of partial denture preparation. • enhance the student dealing with different materials and techniques that used in construction of partial denture . make the student efficiently able to construct partial denture
9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students..

	• Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student must acquire good and sufficient knowledge in the theoretical and	Definition of crown	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical application in the laboratory

		practical field of complete denture construction			
2	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Indications and contarindacations of fixed prosthesis	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must acquire good and sufficient knowledge in the	Definition of bridge	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		theoretical and practical field			
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Definition of pontic	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire good and sufficient knowledge in the theoretical	Types pf pontic	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		and practical field			
6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Definition of sprue	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	3	The student must acquire good and sufficient knowledge in the theoretical and	Types of sprue	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Articulators	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and sufficient knowledge in the theoretical and	Stress breaker	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Principle of tooth preraprtion	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient knowledge in the theoretical and	Types of articulators	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Wax pattern	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge in the theoretical and	investing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		practical field			
15	3	First course ex			
16	3	The student m acquire good sufficient knowledge in theoretical practical field	Investment	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good sufficient knowledge in theoretical practical field	Burn out	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam

Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:
Crown and bridges
2. Course Code:
3. Semester / Year:
semester

4. Description Preparation Date:
12/03/2024 AD
5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3
7. Course administrator's name (mention all, if more than one name)
Name: **Omar Muhammed Faruq abdlrahman** Email: **omercheleby@yahoo.com**
8. Course Objectives

Course Objective	• Providing students with an understanding of the basics steps of complete denture preparation. • enhance the student dealing with different materials and techniques that used in construction of complete denture . make the student efficiently able to construct complete denture

9. Teaching and Learning Strategies

Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student must	Anatomical land mark of upper arch	Presenting and clarifying the lecture	Regular attendance,

		acquire good and sufficient knowledge in the theoretical and practical field of complete denture construction		during the theoretical lecture	discussion and practical application in the laboratory
2	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Anatomical land mark of lower arch	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

3	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Impression materials for fixed prosthesis	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Special tray ,record base	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

5	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Maxillo_mandibular relation ship	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Mounting,Articulater, and Face bow	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

7	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Occlusion	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Word processing	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

10	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Mandibular movement	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Color shade selection	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

12	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Waxing, of central incisor	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Waxing of canine	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

14	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Waxing of premolars	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
15	3	First course ex			
16	3	The student m acquire good sufficient knowledge in theoretical practical field	Waxing of molars	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good sufficient knowledge in	Spruing	Presenting clarifying the lect during theoretical lect	Regular attendance, discussion and practical

		theoretical & practical field		and then applying practically in laboratory	application in the laboratory

11. Course Evaluation	
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc. Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name: Occupational safety
2. Course Code:
3. Semester / Year:
Semester
4. Description Preparation Date:
29/03/2024 AD
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 2 Number of Hours : 30 30/2
7. Course administrator's name (mention all, if more than one name)
Name: Rahma Abdulla Hassan Yahya Email: rahmaiq02@gmail.com
8. Course Objectives

Course Objectives	

	General objective: To familiarize the student with occupational and laboratory risks to the health of workers . The specific goal is to enable the student to prevent occupational hazards in laboratories and workshops

9. Teaching and Learning Strategies

Strategy	• Cooperative learning: This approach encourages teamwork and knowledge sharing among students. Students can collaborate to solve problems • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.

10. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**

1	2	The student must acquire good and sufficient knowledge in the occupational safety field	ntroduction & terms used in occupational safety The staff of the occupational health center	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
2	2	The student must acquire good and sufficient knowledge in the occupational safety field	-Work hazards in an industrial environment in general work - Physical hazards	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
3	2	The student must acquire good and sufficient knowledge in the occupational safety field	-Noise, and protection from noise -Source of noise in general work	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
4	2	The student must acquire good and sufficient knowledge in the	-Prevention from the heat in general work -Chemical hazards in general work	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion

		occupational safety field			
5	2	The student must acquire good and sufficient knowledge in the occupational safety field	-The most important route of entry of chemical -Elimination of chemical substances from the body	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
6	2	The student must acquire good and sufficient knowledge in the occupational safety field	-Occupational cancer -Respiratory disease associated with occupational cancer -Occupational Asthma / properties prevention / treatment	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
7	2	The student must acquire good and sufficient knowledge in the occupational safety field	Introduction to Biosafety and Security -Key components of Biorisk Management	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion

			-Components of safety in all laboratories -Universal safety precautions -Biosafety barriers in laboratories -Personal protective equipment(PPE)		
8		Monthly exam			
9	2	The student must acquire good and sufficient knowledge in the occupational safety field	-Biosafety level -Risk Assessment Strategy -Standard practices required in biology laboratories	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
10	2	The student must acquire good and sufficient knowledge in the occupational safety field	-Routs of infection -Basis for control Measures -Hazard group classification system -A Biosafety cabinet (BSC	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion

11	2	The student must acquire good and sufficient knowledge in the occupational safety field	Assessing risk for work with human blood and tissues hazards -Control measures for work with human blood and tissue -Containment level -Biorisk management system	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
12	2	The student must acquire good and sufficient knowledge in the occupational safety field	Types of biological wastes -Categories of biological wastes -Decontamination of biological wastes -Transportation of biological wastes	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
13	2	The student must acquire good and sufficient	-International Transport Regulations	Presenting and clarifying the lecture	Regular attendance and discussion

		knowledge in the occupational safety field	-The Basic Triple Packaging System	and using the principle of discussion	
14	2	The student must acquire good and sufficient knowledge in the occupational safety field	-Accident response -spill cleanup procedure -Investigation of an accident inside the laboratory	Presenting and clarifying the lecture and using the principle of discussion	Regular attendance and discussion
15		First course exam			

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, , monthly. Annual pursuit = 40% distributed between 10 Daily evaluation + 30 Theory Exam Final exam = 60%

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	

Electronic References, Websites	https://www.wiley.com/en-us/Handbook+of+Occupational+Safety+and+Health%2C+3rd+Edition-p-9781118947265 https://www.sciencedirect.com/book/9780122405709/practical-guide-to-occupational-health-and-safety https://juta.co.za/catalogue/occupational-health-and-safety-management-print_25811

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1. Course Name:
orthodontics
2. Course Code:
3. Semester / Year:
semester
4. Description Preparation Date:
12/03/2024 AD

5. Available Attendance Forms:
12/03//2024 AD
6. Number of Credit Hours (Total) / Number of Units (Total)
Number of units: 3 **Course: (2) theoretical + (2) practical** Total : 60 60/3
7. Course administrator's name (mention all, if more than one name)
Name:**Basma Mushatet Hasan** Email: **basmahasan79@gmail.com.**
8. Course Objectives

Course Objective	• Providing students with an understanding of the basics of orthodontics. • enhance the student dealing with different materials and techniques that used in construction of removable applaince . make the student efficiently able to construct of removable applaince

9. Teaching and Learning Strategies	
Strategy	• Hands-on learning: This approach involves engaging students in practical work for all steps. • Cooperative learning: This approach encourages teamwork and knowledge sharing among students.. • Interactive lessons: This strategy involves using interactive methods such as discussions and interactive activities to attract students' attention and encourage them to actively participate in the lesson. • Practical projects: This strategy gives students the opportunity to apply what they have learned in real practical projects, which helps them understand concepts more deeply. • Participatory assessment: This approach involves involving students in assessment processes and mutually exchanging feedback and comments, which enhances their understanding of the material and helps them improve their performance.

10. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	3	The student must acquire good and	Removable orthodontic appliance construction	Presenting and clarifying the lecture during the theoretical lecture	Regular attendance, discussion and practical

		sufficient knowledge in the theoretical and practical field of complete denture construction			application in the laboratory
2	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Removable orthodontic appliance construction	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
3	3	The student must	Removable orthodontic appliance construction	Presenting and clarifying the lecture	Regular attendance,

		acquire good and sufficient knowledge in the theoretical and practical field		during the theoretical lecture and then applying it practically in the laboratory	discussion and practical application in the laboratory
4	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Myofunctional appliance modification	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
5	3	The student must acquire	Myofunctional appliance modification	Presenting and clarifying the lecture during the theoretical	Regular attendance, discussion and

		good and sufficient knowledge in the theoretical and practical field		lecture and then applying it practically in the laboratory	practical application in the laboratory
6	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Myofunctional appliance modification	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
7	3	The student must acquire good and	Anchorage	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

		sufficient knowledge in the theoretical and practical field		applying it practically in the laboratory	application in the laboratory
8	3	Monthly exam			
9	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Cross bite	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
10	3	The student must acquire good and	Open bite.	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

		sufficient knowledge in the theoretical and practical field		applying it practically in the laboratory	application in the laboratory
11	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Retainers.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
12	3	The student must acquire good and sufficient	Retainers.	Presenting and clarifying the lecture during the theoretical lecture and then	Regular attendance, discussion and practical

		knowledge in the theoretical and practical field		applying it practically in the laboratory	application in the laboratory
13	3	The student must acquire good and sufficient knowledge in the theoretical and practical field	Space maintainers	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory
14	3	The student must acquire good and sufficient knowledge	Bad habits.	Presenting and clarifying the lecture during the theoretical lecture and then applying it practically in the laboratory	Regular attendance, discussion and practical application in the laboratory

		in the theoretical and practical field			
15	3	First course ex			
16	3	The student m acquire good sufficient knowledge in theoretical practical field	fixed orthodo appliance	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
17	3	The student m acquire good sufficient knowledge in theoretical practical field	Fixed orthodo appliance	Presenting clarifying the lect during theoretical lect and then applyin practically in laboratory	Regular attendance, discussion and practical application in the laboratory
11. Course Evaluation					
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.					

Annual pursuit = 40% distributed between 10 Practical Exam + 10 Daily evaluation + 20 Theory Exam Final exam = 60% distributed between 10 Practical Exam + 50 theory Exam	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	