

.Crown & Bridge (advance)

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

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

- 4- Be Informed about the when and how to use Crown & Bridge.
- 5- What are the changes that occur to these materials and how do they reach the stage of setting.
- 6- Be informed about the importance of Crown & Bridge for his/her future profession as a laboratory technician.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals

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

A2. To understand the different between Crown & Bridge.

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

B. The skills goals special to the program.

B1. The practical aspect of laboratory sessions.

B2. Understanding, comprehension and cognitive analysis.

B3. Observation and Perception.

Teaching and Learning Methods

Power Point lecture presentation

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

Encouraging self-directed learning through explaining its importance

Encourage students to use the Internet as a supportive learning tool

Using discussion and dialogue to increase students' comprehension

Assessment methods

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

C. Affective and value goals

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

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

Teaching and Learning Methods

90 Clinical practical hours and 60 theoretical lecture hours

Assessment methods

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

12. Awards and Credits

	Method of learning	Course or Module Code	Course or Module Title	Hours	Week
	Laboratory exam	Crown & Bridge	Waxing upper lateral	3	1
	Lecture using power point Practical training	Crown & Bridge	Waxing upper lateral	3	2
	Lecture using power point Practical training	Crown & Bridge	Waxing upper canine	3	3
	Lecture using power point Practical training	Crown & Bridge	Waxing upper canine	3	4
	Lecture using power point Practical training	Crown & Bridge	Waxing upper premolar	3	5
	Lecture using power point Practical training	Crown & Bridge	Waxing upper premolar	3	6
	Lecture using power point Practical training	Crown & Bridge	Waxing upper premolar	3	7
	Lecture using power point Practical training	Crown & Bridge	Waxing upper molar	3	8
	Lecture using power point Practical training	Crown & Bridge	Waxing upper molar	3	9
	Lecture using power point Practical training	Crown & Bridge	Waxing upper molar	3	10
	Lecture using power point Practical training	Crown & Bridge	Spruing	3	11
	Lecture using power point	Crown & Bridge	Spruing	3	12

	Practical training				
	Lecture using power point	Crown & Bridge	Investing	3	13
	Practical training				
	Laboratory exam	Crown & Bridge	Investing	3	14
	Laboratory exam	Crown & Bridge	Casting	3	15

13. Personal Development Planning

Seminars and presentation all over the academic year

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

15. Key sources of information about the programme

1: Crown & Bridge for dental students

2: Textbook of Crown & Bridge.

Anatomy of head and neck

Course description

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

1- Educational institution	Al-Ayen Iraqi University / College of Medical and Health Technologies
2- Scientific department/center	Department of Prosthodontics
3- Course name/code	Anatomy of head and neck
4-Name of the lecturer(s).	Dr.. majid Alwan
5-Available forms of attendance	Theoretical and practical
6-Semester/year	2nd semester/2nd stage
7-Number of study hours (total)	22 hours
8-The date this description was prepared	2024-3-31
9- Course objectives	
A systematic scientific study anatomy of head and neck.	

10. Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives A1- Introducing the student to anatomy of head and neck. A2- Introducing the student to anatomy of head and neck. A3- methods using traditional and modern way to learn anatomy of head and neck .
B - The skills objectives of the course. B1 - Teaching the student the ability to anatomy of head and neck. B2 - Teaching the student to distinguish between different parts in the head and neck anatomy. B3 - Teaching the student about diagnostic methods to differentiate between parts in the head and neck anatomy.
Teaching and learning methods
Using PowerPoint (practical and theoretical)
Evaluation methods
1-Daily exams (Quizzes) 2-Monthly exams 3-Reports preparation 4-Discussions in practice
C- Emotional and value goals C1- Self-confidence C2- Paying attention to external appearance C3- Adherence to working hours C4- Follow up on scientific and cognitive development
D - Transferable general and qualifying skills (other skills related to employability and personal development). D1 - Teaching the student the ability about head and neck anatomy. D2 - Teaching the student to distinguish between different head and neck anatomy. D3 - Teaching the student about head and neck anatomy.

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

Teaching method	Name of the unit/topic		hours	Week
theoretical	Introduction to anatomy.		2	the first
theoretical	Anatomical terminology.		2	the second
theoretical	Skull.		2	the third
theoretical	Fronal bone & parietal bone.		2	the fourth
theoretical	Maxilla & Palatine bone.		2	Fifth
theoretical	Mandible.		2	Sixth
theoretical	Zygoma.		2	Seventh
theoretical	Orbite and nasal cavity.		2	Eighth

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

science of chemistry 2

Description of Subject study

science of chemistry 2

1. Name of the institution	Alayen Iraqi University
2. College name	College of Health and Medical Technologies
3. Department name	prosthetic dental techniques
4. Course name	chemistry advanced
5. Available attendance forms	Weekly (theoretical + practical)
6. Semester	2nd semester /2nd stage
7. Number of study hours (total)	60 hours
8. The date this description was prepared	27-3-2024
Course objectives to introduce the student to the science of chemistry	
Course outcomes:	
A. Cognitive objectives knowledge of the principles of chemistry Understands the academic material	
B. Skills objectives for the course how to deal with chemical materials use of laboratory equipment / safety	
Teaching and learning methods lectures, datashow	
Evaluation methods 1. partial exam 2. final exam 3. quiz	
Emotional and value goals	
Transferable general and qualifying skills 1. knowledge of the principles of chemistry 2. how to deal with chemical materials 3. use of laboratory equipment / safety	

Academic structure					
Evaluation method	Teaching method	Subject	Required educational outcomes	Hours	Week
Quiz	Lectures/datashow	introduction to organic chemistry	Understands the academic material	2 theoretical + 2 practical	1
Quiz	Lectures/datashow	alkanes, alkenes, alkynes	Understands the academic material		2
Quiz	Lectures/datashow	Alcohols	Understands the academic material		3
Quiz	Lectures/datashow	aldehydes, ketones	Understands the academic material		4
Quiz	Lectures/datashow	carboxylic acid	Understands the academic material		5
Quiz	Lectures/datashow	amines, aromatic hydrocarbons	Understands the academic material		6
Quiz	Lectures/datashow	Carbohydrates	Understands the academic material		7
Quiz	Lectures/datashow	amino acids, proteins	Understands the academic material		8
Quiz	Lectures/datashow	introduction to polymer chemistry	Understands the academic material		9
Quiz	Lectures/datashow	polymers, classification and their properties	Understands the academic material		10
Quiz	Lectures/datashow	reactions of polymer	Understands the academic material		11
Quiz	Lectures/datashow	natural polymers and their uses	Understands the academic material		12
Quiz	Lectures/datashow	mechanics of elastic solids	Understands the academic material		13
Quiz	Lectures/datashow	stress-strain curve	Understands the academic material		14
Quiz	Lectures/datashow	green chemistry	Understands the academic material		15
Infrastructure					
Required prescribed books					

Main references	solutions for chemistry, 7 th , Martin Silberberg
Electronic references	

Oral Physiology

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

1- Educational institution	Al -Ayen Iraqi University
2- Scientific Department/Center	Department of prosthodontic Techniques/Second Phase
3- Course name/code	Oral Physiology
4- Available forms of attendance	Theoretical and practical
6- Semester/year	Second semester / 2 nd stage
7- Number of study hours (total)	150 hours
8- Date this description was prepared	31/3/2024

9- Course objectives
- Cognitive objectives A1- Studying new research that is of interest to the student and how to select good research A2-Knowing the principles of writing scientific research A3- Study the basics of anatomy A4- Study the basics of physiology

B - The skills objectives of the course.
1 - Gaining the correct experience to recognize the bones of the face
2 - Gaining experience to know the functions of the important organs in the human body
Teaching and learning methods
In the classroom and Laboratory
Evaluation methods
Conducting periodic exams and questions
- Emotional and value goals C1- Improving scientific reality C2- Developing scientific and practical talents C3- Implementing laws and practical obligations
D - Transferable general and qualifying skills (other skills related to employability and personal development). 1- Increase self-confidence 2- Bearing the burdens and hardships of work 3- Building strong rapport among colleagues at work 4- Have good morals

10. Structure of the study material					
Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	Week
Tests and application	Theoretical + practical	Oral physiology	The student understands the material	2 theoretical hours + 3 practical hours	Weekly

Introduction and how the body functions control	1
Physiology of circulatory system: the function of each part	2
Physiology of blood circulation: types of blood circulation	3
Blood: definition and composition	4

Blood: functions	5
Blood: The formed elements of blood and normal values	6
Blood groups: ABO system and RH system	7
Physiology of oral cavity and digestive process: Saliva and salivary glands	8
Saliva: composition and functions of saliva in mastication and speech	9
Physiology of tongue and taste sensation	10
Physiology of the teeth: the role of teeth arrangement in mastication	11
Physiology of muscles of mastication	12
Physiology of the pharynx and velopharyngeal competence	13
Physiology of the soft palate	14
Defects of soft palates	15

11. Infrastructure	
Required prescribed books	Oral Physiology
2- Main references	-Wheeler's Dental Anatomy, Physiology and OcclusionVersion (9th edition) =Woelfel's Dental Anatomy 8th Ed.
A-Recommended books and references (scientific journals, reports,...)	-Wheeler's Dental Anatomy, Physiology and OcclusionVersion (9th edition) -Woelfel's Dental Anatomy 8th Ed.
B - Electronic references, Internet sites	https://libguides.usc.edu/healthsciences/dentalanatomy

12. Course development plan
Always work to transfer everything new in the field and put it in the hands of the student and constantly communicate with students in order to implement everything new in the practical aspect.

Partial Denture (Basic)

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

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

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

11. Course structure				
Evaluation method	Teaching method	Name of the unit/topic	hours	Week
Quizzes	theoretical	Removable partial denture(Terms and components)	2	the first
Quizzes	theoretical	Kennedy classification	2	the second
Quizzes	theoretical	Acrylic Removable partial denture	2	the third
Quizzes	theoretical	Special tray ,occlusal rim, trimming of the cast	2	the fourth
Quizzes	theoretical	Surveying	2	Fifth
Quizzes	theoretical	Clasp assembly	2	Sixth
Quizzes	theoretical	Selection of the artificial teeth	2	Seventh
Quizzes	theoretical	Setting of the artificial Teeth	2	Eighth
Quizzes	theoretical	Waxing of the acrylic partial denture	2	Ninth
Quizzes	theoretical	Flasking	2	Tenth
Quizzes	theoretical	Curing ,Finishing and polishing	2	Eleventh
Quizzes	theoretical	Selective grinding	2	Twelfth
Quizzes	theoretical	Repair	2	Thirteenth
Quizzes	theoretical	Flexible Removable partial denture	2	Fourteenth
	theoretical	Examination	2	Fifteenth

12. Infrastructure

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

13. Course development plan

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