

## Course Description Form

1. Course Name:	
Chemistry (Advanced)	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
9/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60H (4 unit)	
7. Course administrator's name (mention all, if more than one name)	
Name: Fuoad Salim Aziz Email: fuoadsalim65@gmail.com	
8. Course Objectives	
<p><b>Course Objectives</b></p>	<ul style="list-style-type: none"> <li>• The objectives of this course are to enable the student to do the following:               <ul style="list-style-type: none"> <li>• Explain the types and composition of complete dentures</li> <li>• Explain the anatomical theory of complete denture</li> <li>• Explain the making method of complete denture composition</li> <li>• Explain the occlusion of complete denture</li> <li>• Explain the method of complete denture artificial tooth arrangement</li> <li>• Explain the make method of complete denture.</li> </ul> </li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of

the lecture, the students are tested under guidance. DirThe objectives of this course are to enable the student to do the following: • Explain the types and composition of complete dentures • Explain the anatomical theory of complete denture • Explain the making method of complete denture composition • Explain the occlusion of complete denture • Explain the method of complete denture artificial tooth arrangement • Explain the make method of complete denture ect questions and discussions, in addition to feedback and daily surprise exams.

## 10. First Course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to organic chemistry(hydrocarbons	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Alkanes, alkenes, alkynes.	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Alcohols	Classification, properties and their reactions	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Aldehydes and ketones	Definition and properties and their reactions	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Carboxylic acids	properties and their reactions.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Amines, aromatic hydrocarbons and polynuclear aromatic compounds	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Introduction to biochemistry(carbohydrate	Definition and Explain	Continuous guidance of students by	Through discussions, direct

				the professor during daily lectures	questioning, and daily exams.
8	2	Amino acids and proteins.	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Introduction to polymer chemistry	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Polymers	Classification and their properties	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	polymer of Reactoins	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	. Natural polymers and their use	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	The mechanics of elastic solids	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Stress- Strain curve.	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Green chemistry	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

## 11. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:

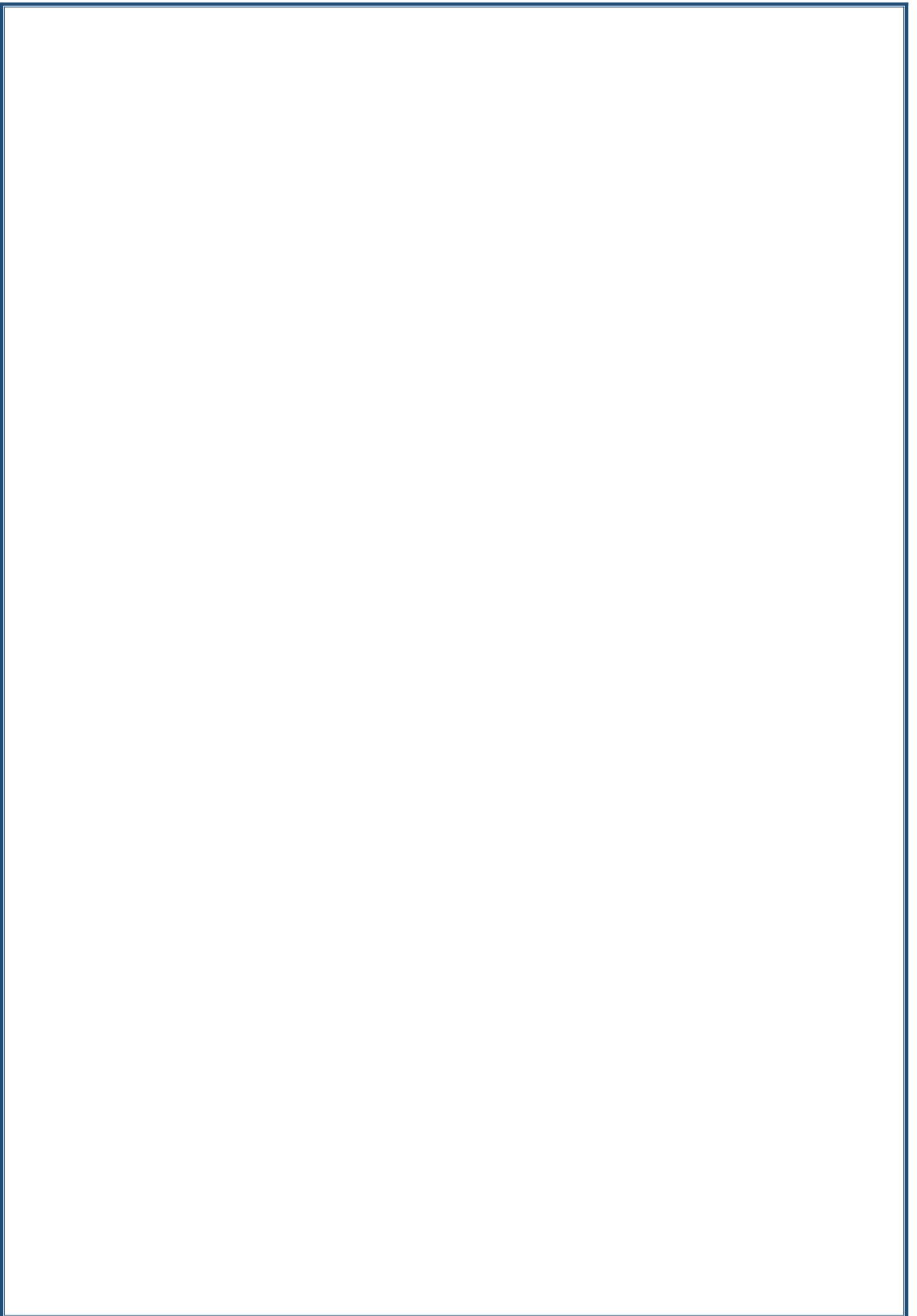
1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Winkler S. Essentials of Complete Dent Prosthodontics.2nd ed. Year Book Medical P 1988.
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	. Zarb, George A. (and others). Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prosthesis.12th ed. St. Louis, MO: Mosby, 2004. Winkler S. 2. Winkler S. Essentials of Complete Denture Prosthodontics.2nd ed. Year Book 3. Medical Pub,1988. 4. Sowter, J.B. and Barton, R.E. Removable Prosthodontic Techniques (Dental Laboratory Technology Manuals). Rev. ed. University of North Carolina Press, 1987. 5. Morrow, Robert M., Rudd, Kenneth D., Rhoads, John E. Dental Laboratory Procedures Complete Dentures & Maxillofacial Procedures.Mosby Company, 1986
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name:	
Chemistry (Basic)	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
9/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60H (4 unit)	
7. Course administrator's name (mention all, if more than one name)	
Name: Fuoad Salim Aziz Email: fuoadsalim65@gmail.com	
8. Course Objectives	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>The students can introduce and use material for the crown and bridge</li> <li>Ability of students to make fixed bridge</li> <li>Make wax patterns for the manufacture of dental fixed bridge</li> <li>Step by step the casting process for manufacturing dental bridge</li> <li>Perform grinding and polishing process of dental fixed bridge</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	At the beginning of the lecture, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested under guidance. Direct questions and discussions, in addition to feedback and daily surprise exams.

10. First Course					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to General Chemistry (Matter)	Classification matter.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Atom, atomic number, mass number, atomic mass and isotopes.	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Periodic table.	Definition and Explain Periodic table.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Chemical bonds.	Definition and classification	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Method of analysis solutions, standard solutions.	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Molarity, molality, normality and dilution	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Chemical reactions, equilibrium constant, reaction route, catalyst.	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily



					exams.
8	2	Solubility and ionization	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Neutralization analysis acid and base theory.	Definition and Explain acid and base theory	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	PH, buffers and end point.	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	.(spectroscopy Optical (Spe	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Beer Law	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Lipids	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Proteins	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Enzyme and Vitamins	Definition and Explain	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

## 1. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:

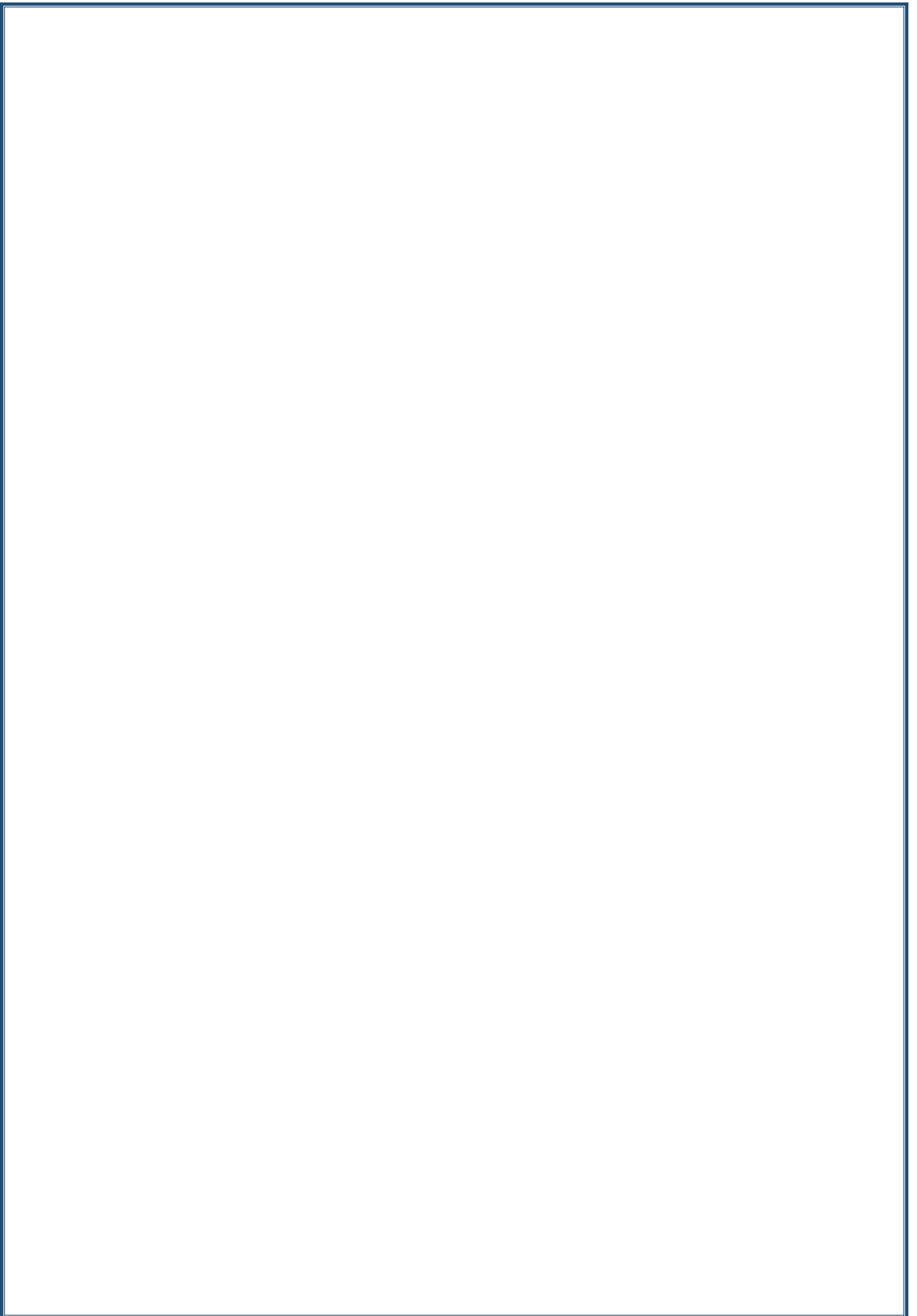
1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Introduction of dental materials 2- A review on dental materials 3- Handbook of Dental Materials
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(contemporary fixed prostheses) by <b>Richard</b> (base metal alloy used for dental restoration and implant) by Michael roach
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name:	
Medical science- oral pathology	
2. Course Code:	
3. Semester / Year:	
Semester	
4. Description Preparation Date:	
3/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist.Prof. Hussein Bashir Mahmood Email: hussain.bashar@alsafwa.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>Understanding the fundamentals of histopathological conditions and the description of the main lesions that occur in oral cavity in order to identify the primary pathogenic agent</li> <li>Discussing the methods of using histological technique for slides proration</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	<p>The lecture begins with an update of the prior material through a brief review. Next, the new topic is introduced, starting with a basic concept and being further explained utilizing contemporary teaching techniques such as office programs, data shows, display screens, and personal computers. Following the lesson, the students take an exam under supervision. Along with feedback and daily surprise quizzes, there will be direct questions and debates.</p>

10. First Course					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction about pathology science	Oral pathology	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	1	Methods of Tissue Preparations	Microscopy and slide preparation	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	1	Biopsy	definition, types, technique	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	1	Dental caries	definition, classification, clinical feature, radiological	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	1	Pulp disease	Types of pulpitis	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	1	Pulp disease	Types of pulp disease , dental granuloma	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	1	Periapical	pathology & changes	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily

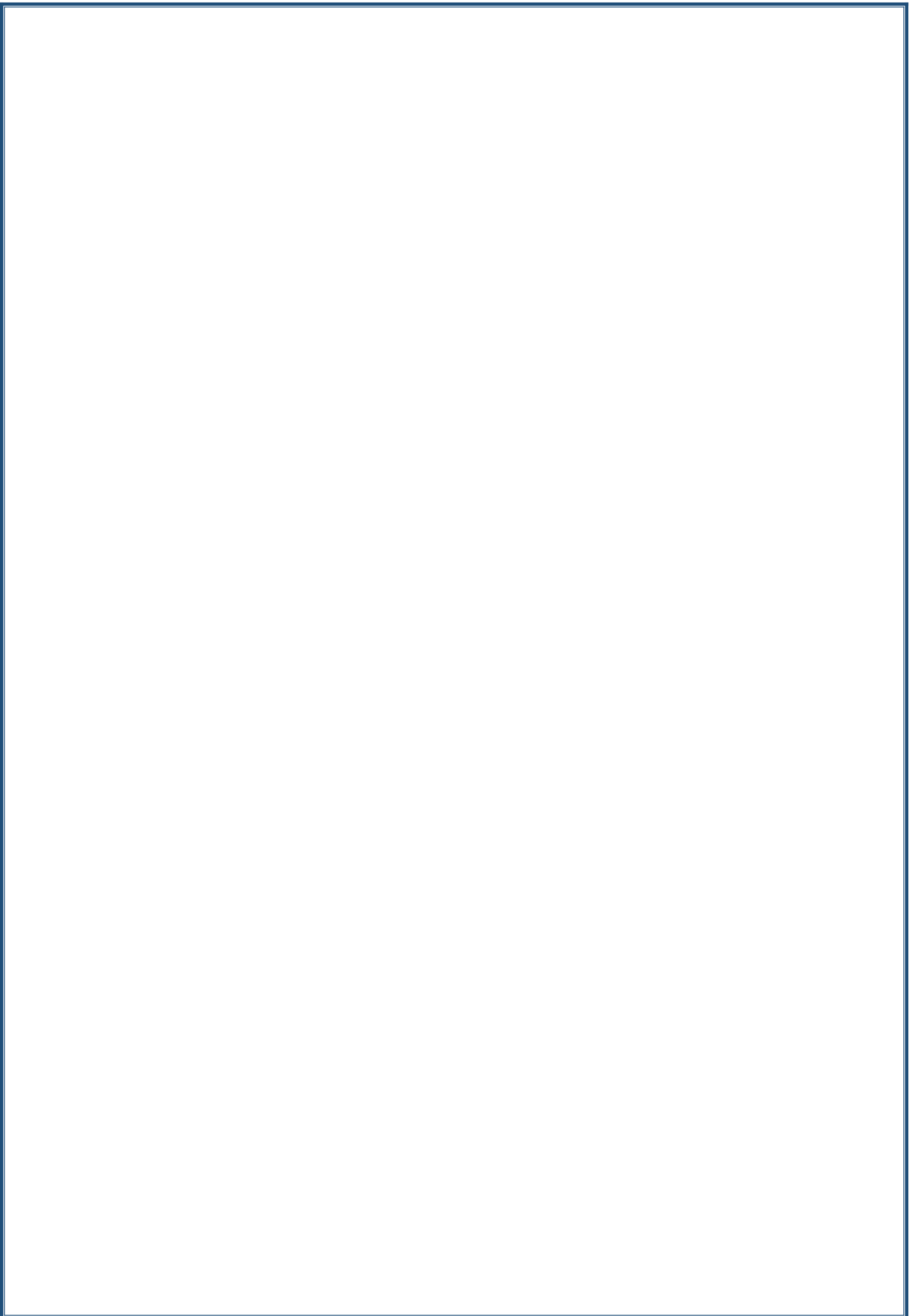
					exams.
8	1	Cyst of the Jaw	Lesions, location	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	1	Oral lesions	White lesions	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	1	Oral histopath lesions	Ulceration oral lesions	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	1	Developmental lesions	disturbance of oral mucosa	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	1	Developmental lesions	disturbance of the tongue	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	1	Developmental lesions	disturbance of teeth	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	1	Bones lesions	Bone disease	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	1	Oral salivary glands	Salivary gland disease	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

## 11. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:  
 1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)  
 2- Evaluation (5 marks)  
 3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1-Shafer'S Textbook Of Oral Pathology  2- Oral Pathology & Medicine Books
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(Shafer'S Textbook Of Oral Pathology (6Th Edition) By R. Rajendran (Oral Pathology & Medicine Books) by M. Picciotti, G. Lorenzini, and L. Di Vece
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.





## Course Description Form

1. Course Name:	
Physiology	
2. Course Code:	
3. Semester / Year:	
Semester	
4. Description Preparation Date:	
3/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist.Prof. Hussein Bashar Mahmood Email: hussain.bashar@alsafwa.edu.iq	
8. Course Objectives	
<p><b>Course Objectives</b></p>	<ul style="list-style-type: none"> <li>Understanding the fundamentals of physiology and the description of the functions of histological oral structures in order to identify the primary pathogenic agent</li> <li>Understanding of the primary roles played by the body's architecture, cellular constituents, and varieties of connective tissue</li> <li>Discussing the methods of using oral physiology and identifying the compositions of these materials.</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	<p>The lecture begins with an update of the prior material through a brief review. Next, the new topic is introduced, starting with a basic concept and being further explained utilizing contemporary teaching techniques such as office programs, data shows, display screens, and personal computers. Following the lesson, the students take an exam under supervision. Along with feedback and daily surprise quizzes, there will be direct questions and debates.</p>

10. First Course					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction and how the body functions control	Basics science	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Physiology of circulatory system	the function of each part	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Physiology of blood circulation	types of blood circulation	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	definition and composition	blood	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Function of component	Blood	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	The formed elements of blood and normal value	Blood	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	ABO system and RH system	Blood groups	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

8	2	Physiology of oral cavity and digestive process	Saliva and salivary glands	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	composition and functions of saliva in mastication and speech	Saliva	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Physiology of tongue and taste sensation	Mouth structures	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	the role of teeth arrangement in mastication	Physiology of the teeth	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Physiology of muscles of mastication	Head & neck structures	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Physiology of the pharynx and velopharyngeal competence	Head & neck structures	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Physiology of the soft palate	Head & neck structures	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Defects of soft palates	Mouth cavity	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

### 11. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such

as:

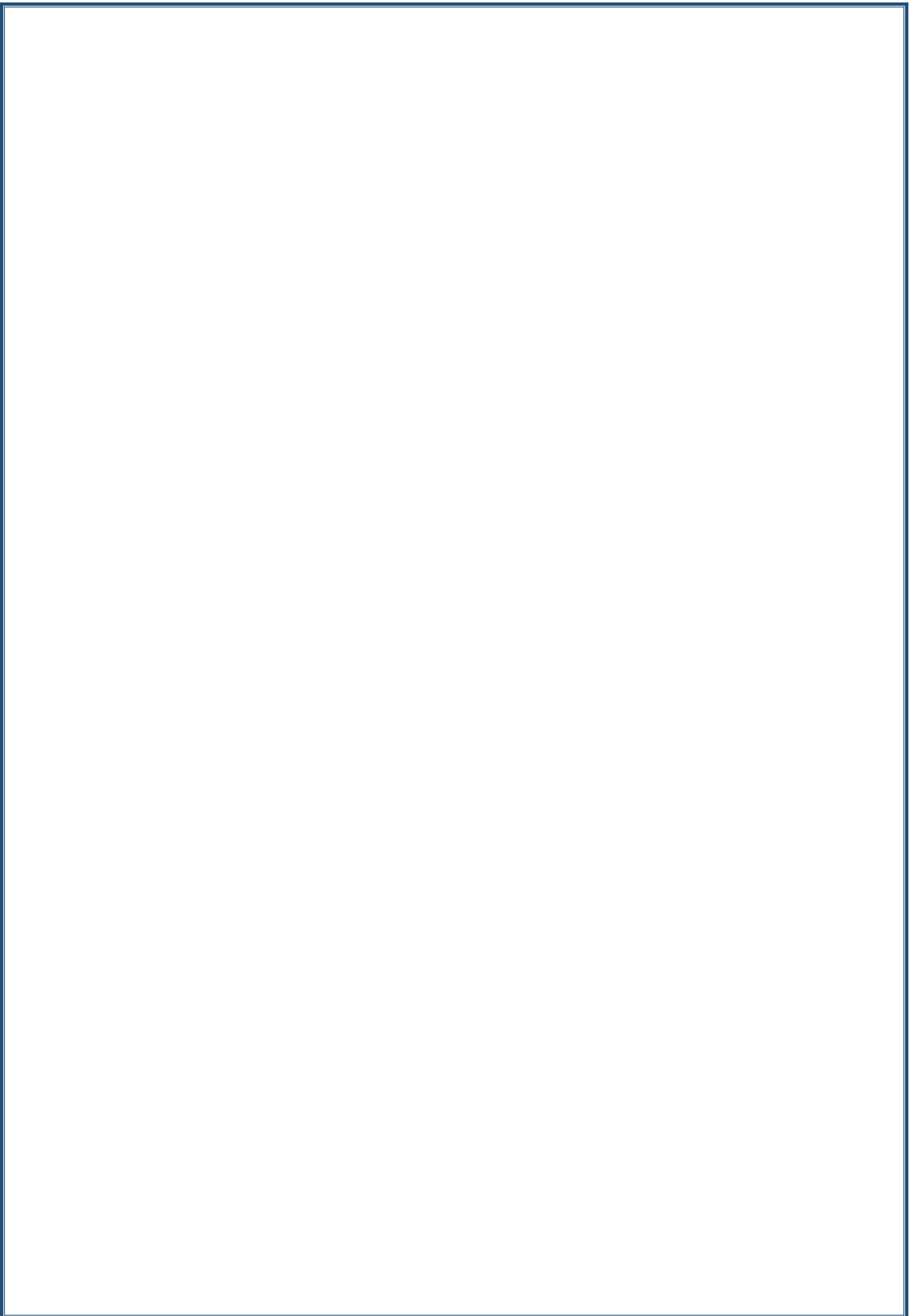
1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Mouth Physiology textbook 2- Textbook of Medical Physiology 3- Anatomy & Physiology
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(Textbook of Medical Physiology) by · By John E. Hall (Anatomy & Physiology) J. Gordon Betts, Tyler
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name:	
Partial Denture (Basic)	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
3/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: hayder Ibrahim khaleel Email: heider-ibrahim@alsafwa.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	The objectives of this course are to enable the student to do the following: <ul style="list-style-type: none"> <li>• Design the manufacturing process for removable partial denture</li> <li>• Make master models for the duplicate model</li> <li>• Make duplication models for removable partial denture</li> <li>• Make wax patterns for the manufacture of removable partial denture</li> <li>• Perform the casting process for manufacturing a removable partial denture</li> <li>• Perform grinding and polishing process of removable partial denture</li> <li>• Make wax denture</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested under guidance. DirThe objectives of this course are to enable the student to do the following: <ul style="list-style-type: none"> <li>• Explain the types and composition of complete dentures</li> <li>• Explain the anatomical theory of complete denture</li> <li>• Explain the making method of complete denture composition</li> <li>• Explain the occlusion of complete denture</li> <li>• Explain the method of complete denture artificial tooth arrangement</li> <li>• Explain</li> </ul>

the make method of complete denture ect questions and discussions, in addition to feedback and daily surprise exams.

### 10. First Course

<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Removable Partial Denture (Terms and Components)	Removable partial denture (RPD) model design method □ Design and sketch on RPD model for practice	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Kennedy classification.	. Make duplication models for removable partial denture	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Acrylic Removable Partial Denture	Design the manufacturing process for removable partial denture	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Special tray, occlusal rim and design the trimming of master cast	□ Block out and relief method □ Using method of materials and equipment used for block out and relief	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Surveying procedure	□ Master model surveying method □ Undercut measurement	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Articulating and Mounting procedure	Explain how to transfer the relationship from the patient to the articulator and pouring it	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Clasp assembly	. Design the manufacturing process for removable partial denture	Continuous guidance of students by the	Through discussions, direct

				professor during daily lectures	questioning, and daily exams.
8	2	Selection of artificial teeth	Artificial tooth arrangement method	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Setting of artificial teeth	Explained how to arrangement of artificial teeth	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Waxing of acrylic partial dent	□ Base plant make method in functional model □ Make metho of wax denture base	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Flasking procedure	Explaine how to make partial dent with acrylic mater and wax elimlnatio	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Curing, Finishing and Polishin Procedure	Perform grinding and polishing process of removable partial denture	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Selective grinding	□ Grinding material a machine use method Grinding method	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Repairing of acrylic P.D	Explain the sealing method the fractu acrylic	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	A flexible removable partial denture	. Explain the make method of partial denture with nylon materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.



## 11. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:

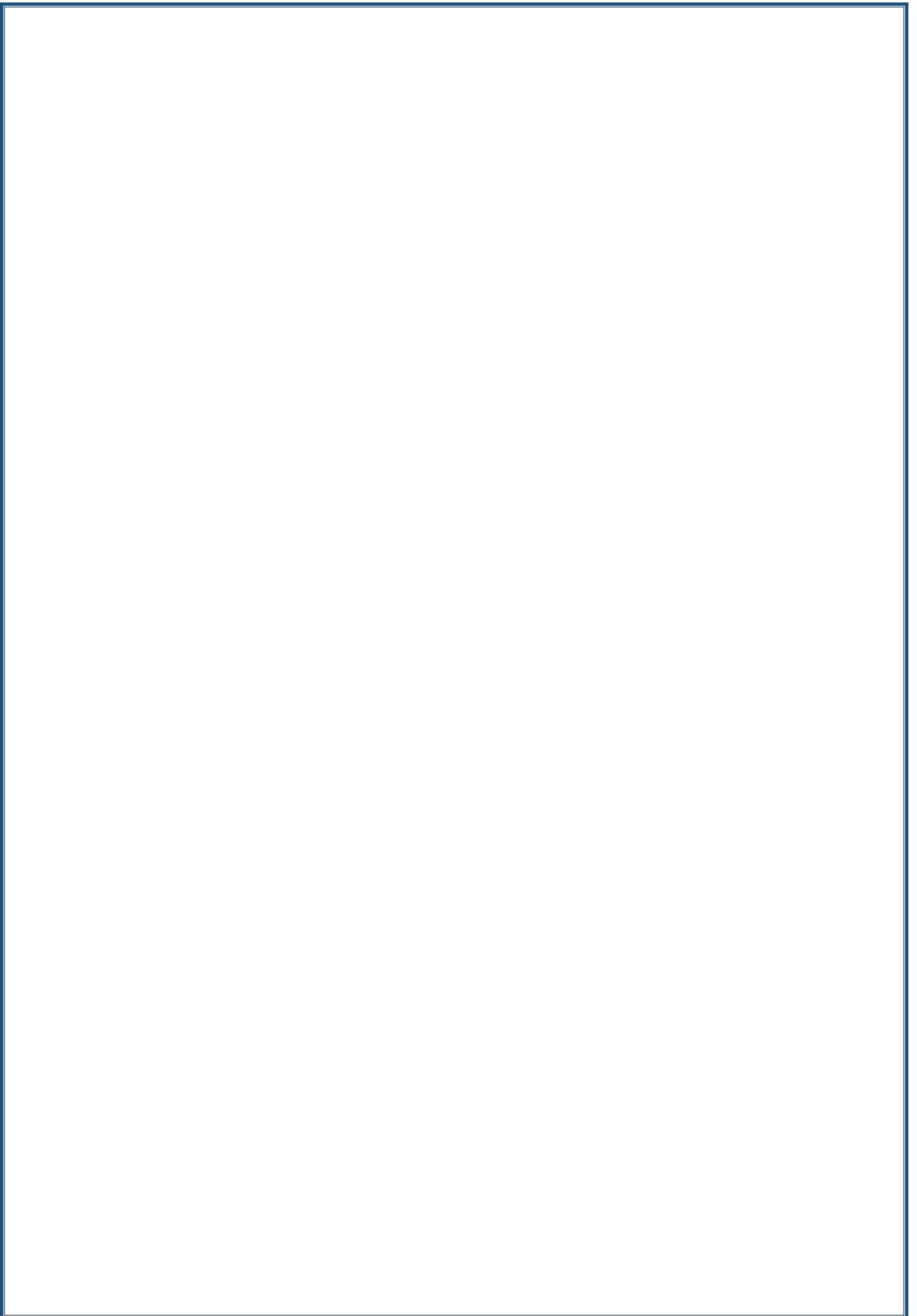
1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	. 4. Sowter, J.B. and Barton, R.E. Removal Prosthodontic Techniques (Dental Laboratory Technology Manuals). Rev. ed. University of North Carolina Press, 1987.
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	Morrow, Robert M., Rudd, Kenneth D., Rhoads, John E. Dental Laboratory Procedures Complete Dentures & Maxillofacial Procedures
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name:

Occupational safety

2. Course Code:

3. Semester / Year:

Semester

4. Description Preparation Date:

10/3/2024

5. Available Attendance Forms:

Attendance

6. Number of Credit Hours (Total) / Number of Units (Total)

30 h

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

Name: Karar H. Obaid

Email: karar.h.obaid@gmail.com

8. Course Objectives

### Course Objectives

The objectives of teaching occupational safety can be outlined as follows:

Understanding Occupational Hazards: Directing students to understand and analyze the risks they may encounter in the workplace, whether they are physical, chemical, biological, or any other type of hazards.

Promoting Safety Awareness: Enhancing students' awareness of the importance of occupational safety and the necessity of taking appropriate preventive measures to avoid accidents and injuries.

Familiarizing with Regulations and Laws: Introducing students to local, national, and international laws and regulations related to occupational safety, and understanding how to implement them in the workplace.

Developing Proper Management

	<p>Skills: Empowering students to develop safety management skills, such as conducting risk assessments, developing emergency plans, and implementing proper safety procedures.</p> <p>Promoting a Healthy Safety Culture: Promoting a safety culture in society at large, and encouraging students to transfer sound safety concepts and practices to their future workplaces and daily lives.</p> <p>Providing Practical Training: Providing opportunities for students to apply the concepts and skills they have learned in real-life situations in a simulated environment or in actual workplace settings.</p> <p>Achieving these objectives contributes to improving safety and health in various work environments, reducing workplace accidents and injuries, and increasing productivity and efficiency in different industries and sectors.</p>
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**9. Teaching and Learning Strategies**

<b>Strategy</b>	At the beginning of the lecture, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested under guidance. Direct questions and discussions, in addition to feedback and daily surprise exams.
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**10. First Course**

<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Understanding Occupational Hazards: The ability to identify understand various types of hazards threats that may	<b>Introduction &amp; terms used in occupational safety</b> <b>The staff of occupational health</b>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams

		encountered in workplace.	<b>center</b>		
2	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace.	<b>Work hazards in an industrial environment in general work</b> - Physical hazards	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace.	<b>Noise, and protection from noise</b> - Source of noise in general work.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace.	<b>Prevention from the heat in general work</b> - Chemical hazard in general work	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace.	<b>The most important route of entry of chemical</b> - Elimination of chemical substances from the body - Type of toxicity - Chronic toxicity	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace.	<b>Occupational cancer</b> - Respiratory disease associated with occupational cancer - Occupational Asthma / prophylaxis / prevention / treatment	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace.	<b>Introduction to Biosafety and Security</b> • Key components of Biorisk Management • Components of	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

			<p>safety in all laboratories</p> <p>Ministry of Higher Education and Scientific Research</p> <p>Meddle Technical University</p> <p>College of Health and Medical Techniques/ Baghdad</p> <p>Prosthetic Dental Techniques Department</p> <p>First Grade</p> <ul style="list-style-type: none"> <li>• Universal safety precautions</li> </ul> <p><b>Biosafety barriers in laboratories</b></p> <ul style="list-style-type: none"> <li>• Personal protective equipment(PPE)</li> <li>• Facility Design</li> </ul>		
8	2	Understanding Occupation Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace	<p><b>Biosafety level</b></p> <ul style="list-style-type: none"> <li>• Risk Assessment Strategy</li> <li>• Hazard groups, biosafety levels, practices and equipment</li> </ul> <p>Standard practices required in biology laboratories</p> <p><b>Biological Agents</b></p> <ul style="list-style-type: none"> <li>• Routs of infection</li> <li>• Basis for control Measures</li> <li>• Hazard group classification system</li> <li>• A Biosafety cabinet (BSC)</li> </ul>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Understanding Occupation Hazards: The ability to identify and understand	<p><b>Biorisk and biohazards</b></p> <ul style="list-style-type: none"> <li>• Control of</li> </ul>	Continuous guidance of students by the	Through discussions, direct

		various types of hazards and threats that may be encountered in the workplace	<p>substances hazardous to health</p> <ul style="list-style-type: none"> <li>• Assessing risk for work with human blood and tissues hazards</li> <li>• Control measures for work with human blood and tissue</li> <li>• Containment level</li> </ul>	professor during daily lectures	questioning, and daily exams.
10	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace	<p><b>Biorisk management system</b></p> <ul style="list-style-type: none"> <li>• Assess the capability of the laboratory staff to control hazards</li> <li>• Relation of risk groups to biosafety levels, practices of and equipment</li> <li>• Mitigation Control Measures</li> <li>• Sustainability of the bio-risk management system</li> <li>• Strengthening biorisk management</li> </ul>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace	<p><b>Types of biological wastes</b></p> <ul style="list-style-type: none"> <li>• Categories of biological wastes</li> <li>• Decontamination of biological wastes</li> </ul>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

			<b>Transportation of biological wastes</b> <ul style="list-style-type: none"> <li>• International Transport Regulations</li> <li>• The Basic Triple Packaging System</li> </ul>		
12	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace	<b>Accident response</b> <ul style="list-style-type: none"> <li>• spill cleanup procedure</li> <li>• Investigation of an accident inside the laboratory</li> </ul> <b>Overview of biological safety and security equipment</b>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace	<b>Introduction to Biosecurity</b> <ul style="list-style-type: none"> <li>• Risks Characterization in biosecurity</li> <li>• Vulnerability assessment</li> <li>• Component of Laboratory Biosecurity</li> </ul>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace	<b>biosafety Practical part biosafety rules simulation 3D</b>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Understanding Occupational Hazards: The ability to identify and understand various types of hazards and threats that may be encountered in the workplace	<b>Biosafety training</b>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

## 11. Course Evaluation

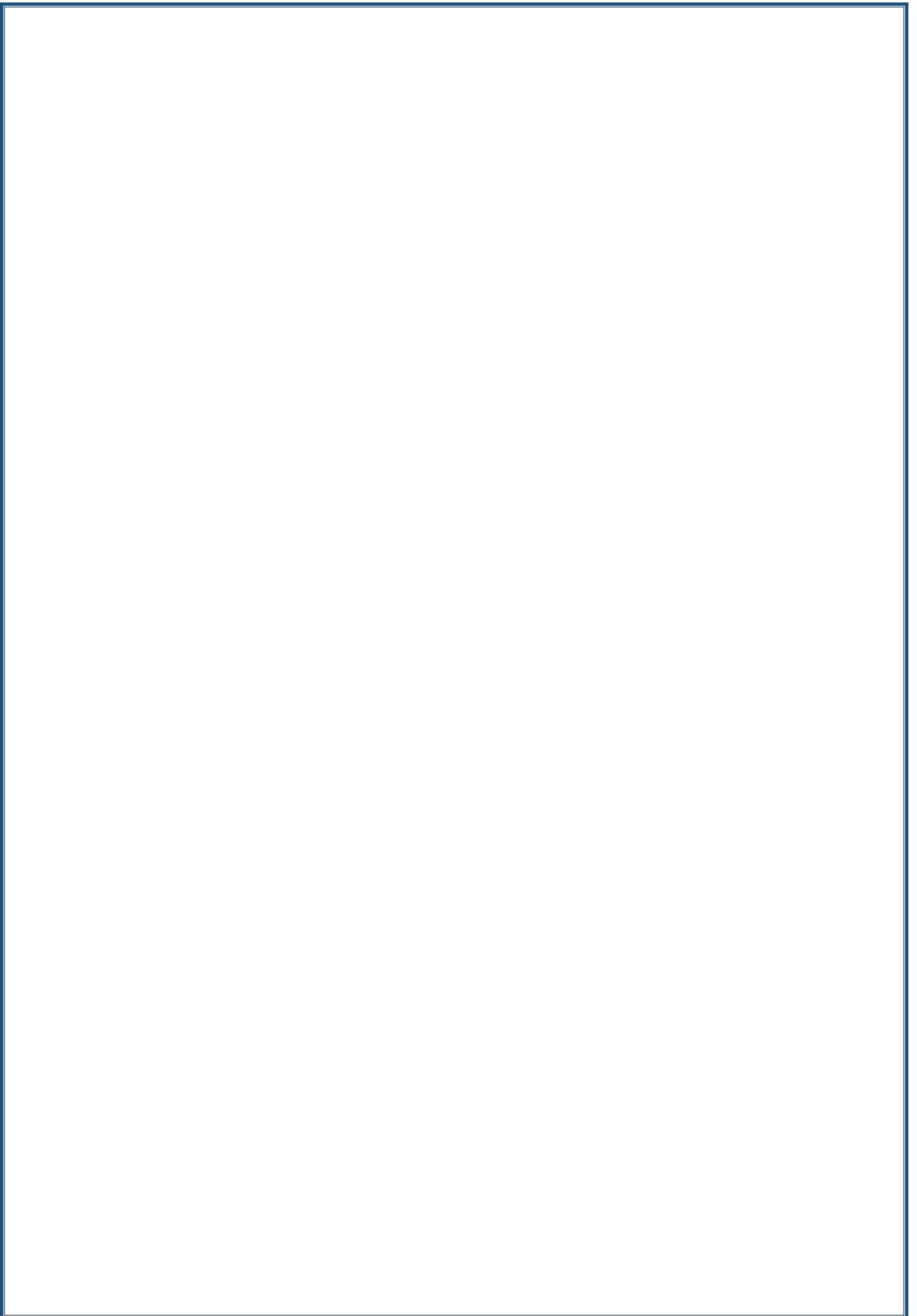
Distributing the grade out of 100 according to the tasks assigned to the student, such as:

- 1- Mid-course exam
- 2- Evaluation
- 3- Final exam

## 12. Learning and Teaching Resources



Required textbooks (curricular books, if any)	1- Introduction of Occupational safety 2- A review on Occupational safety 3- Handbook of Occupational safety
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	Occupational Safety and Health for Technologists, Engineers, and Managers" by David L. Goetsch. "Introduction to Occupational Health and Safety" by Phil Hughes and Ed Ferrett. "Safety and Health for Engineers" by Roger L. Brauer. "Fundamentals of Occupational Safety and Health" by Mark A. Friend and James P. Kohn. "Safety Professional's Reference and Study Guide" by W. David Yates.
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name:	
Partial denture (middle)	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
4/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
90H (4 unit)	
7. Course administrator's name (mention all, if more than one name)	
Name: Mahdi Yasser Ahmed Email: Mahdi.yaser@alsafwa.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>The students can introduce and use material for the partial denture</li> <li>Ability of students to make partial denture</li> <li>Make wax patterns for the manufacture of removable partial denture</li> <li>Step by step the casting process for manufacturing a removable partial denture</li> <li>Perform grinding and polishing process of removable partial denture</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	At the beginning of the lecture, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested

under guidance. Direct questions and discussions, in addition to feedback and daily surprise exams.

### 10. First Course

<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	The ideal component of the chrome-cobalt removable partial denture	Basics component of chrome-cobalt removable p.d and its function	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Maxillary major connector	Evaluation maxillary major connector	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Mandibular major connector	Evaluation mandibular major connector	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Minor retainer	Definition and function of minor connectors	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Direct retainer	Definition and classification	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Indirect retainer	Definition and classification	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Rest and rest seat	Definition, type and form	Continuous guidance of students by the	Through discussions, direct

				professor during daily lectures	questioning, and daily exams.
8	2	Denture base	Denture base and how to be work	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Support for the distal extension denture base	Type of edentulous teeth	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Establishment of occlusal relationship for R.P.D.	Requirement of satisfactory occlusion	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Duplicating of the master cast (Refractory cast)	Preparing master cast for duplicating	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Wax pattern	Make method of wax pattern	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Spruing and investing	Explained how to Spruing and investing	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Burnout and Casting	Explained how to Burnout and Casting	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Finishing and polishing	Perform grinding and polishing process of removable partial denture	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

## 1. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:

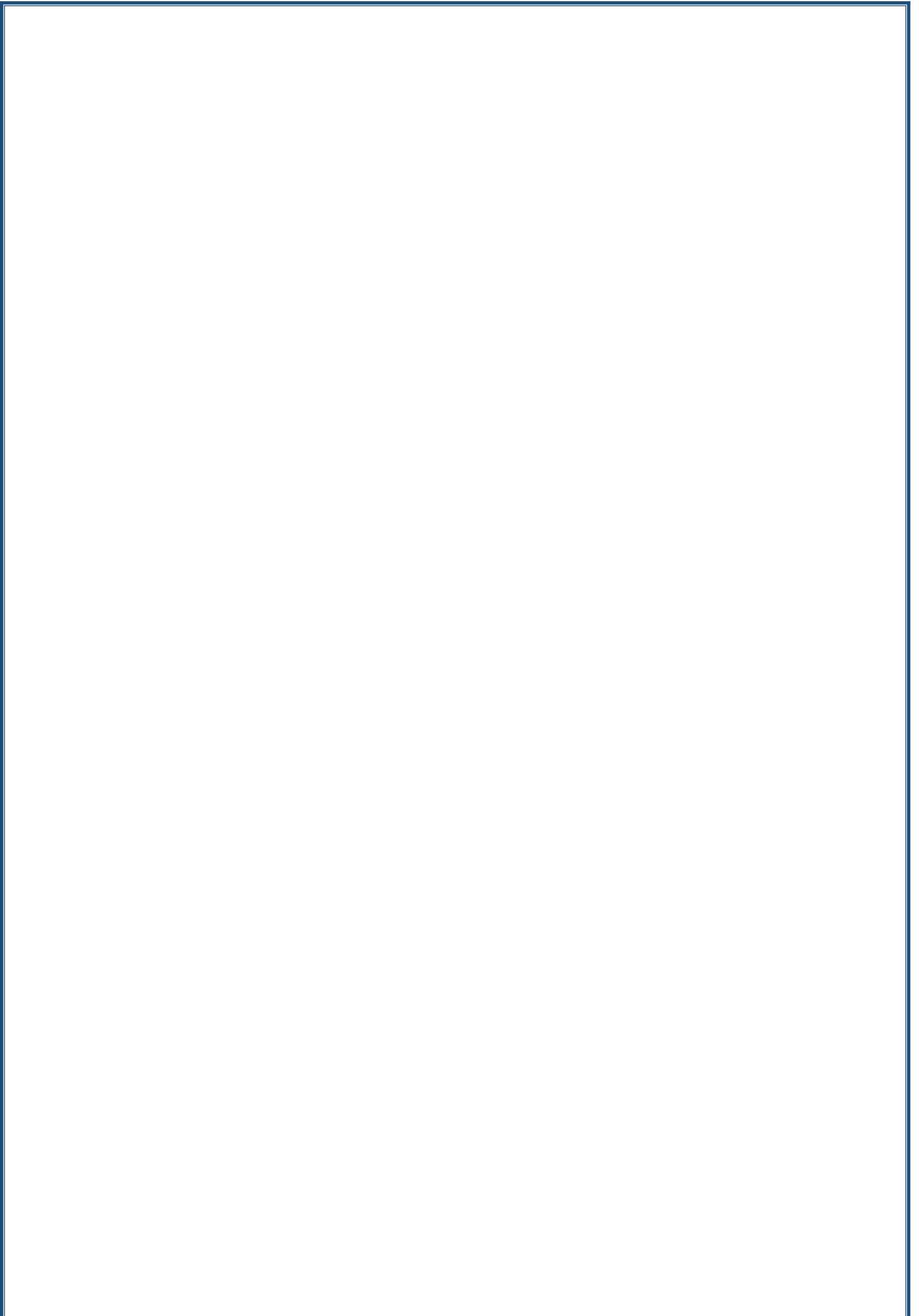
1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Introduction of dental materials 2- A review on dental materials 3- Handbook of Dental Materials
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(Introduction of dental materials) by Richard van Noort, (Handbook of Dental Materials) V. Shama Bhat, (A review on dental materials) Hamid Reza Rezaie , Hassan Beigi Rizi , Mojdeh Mahdi Rezaei Khamseh
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name:	
Complete denture (Basic)	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
3/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
60H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: hayder Ibrahim khaleel Email: heider-ibrahim@alsafwa.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• The objectives of this course are to enable the student to do the following:               <ul style="list-style-type: none"> <li>• Explain the types and composition of complete dentures</li> <li>• Explain the anatomical theory of complete denture</li> <li>• Explain the making method of complete denture composition</li> <li>• Explain the occlusion of complete denture</li> <li>• Explain the method of complete denture artificial tooth arrangement</li> <li>• Explain the make method of complete denture.</li> </ul> </li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested under guidance. DirThe objectives of this course are to enable the student to do the following: <ul style="list-style-type: none"> <li>• Explain the types and composition of complete dentures</li> <li>• Explain the anatomical theory of complete denture</li> </ul>



• Explain the making method of complete denture composition • Explain the occlusion of complete denture • Explain the method of complete denture artificial tooth arrangement • Explain the make method of complete denture ect questions and discussions, in addition to feedback and daily surprise exams.

## 10. First Course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Impression materials complete denture (CD)	Explain types of material that use in dental prosthodontic was primary impression or secondary impressio	Continuous guidance of students by the professor durin daily lectures	Through discussions, direct questioning, and daily exams
2	2	Anatomical landmarks upper & lower jaw, maxillary & mandibular cast.	Explain the anatomical land mark that fond in maxillary or mandibular jaw and we used it in arrengment of the teeth	Continuous guidance of students by the professor durin daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Special tray, record bas occlusal rim	Explain the how we make the special try and what materia used it and make the bite rin on recored base	Continuous guidance of students by the professor durin daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Maxillo-mandibular relationship.	Explain the occlusion of complete denture and determined the centric of occlusion	Continuous guidance of students by the professor durin daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Mounting.	Explained how to make mounting and transfer t occlusion relationship between upper and c lower complete denture	Continuous guidance of students by the professor durin daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Articulator.	a. Articulator o Definition, functions, types of articulat b. Face-bows o Definition, ty and uses of Face-bows o Registration of maxillary fac bow record o Introduction to	Continuous guidance of students by the professor durin daily lectures	Through discussions, direct questioning, and daily

			the mandibular movements.		exams.
7	2	Face-bow.	a. Articulator o Definition, functions, types of articulators b. Face-bows o Definition, types and uses of Face-bows o Registration of maxillary face bow record o Introduction to the mandibular movements.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
8	2	Occlusion.	Types of the occlusal rims e Requirements of the occlusal rims f. Construction and specifications of the maxillary occlusal rim g. Construction and specifications of the mandibular occlusal rim	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Mandibular movement.	□ Definition of mandibular movement □ Types of mandibular movement	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Compensating curve.	The curvature of the occlusal plane of dentures, created to permit balanced occlusion, to compensate for the paths of the mandibular condyles as the mandible moves from centric to eccentric positions. See also curve of Spee. From: compensating curve in A Dictionary of Dentistry »	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Arrangement of artificial teeth (class I)	: Class I is a normal relationship between the upper teeth, lower teeth and jaws of balanced bite	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Arrangement of artificial teeth (class II).	The components of a class II occlusion are unlike other occlusions. The anterior teeth do not provide the protection	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

			and guidance normally provided by horizontal and vertical overlap. The posterior teeth bear the full force of occlusion. Protrusive movement is the dominant and the most used movement.		
13	2	Arrangement of artificial teeth (class III)	Class III:  Class III is where the lower first molar is anterior (or more towards the front of the mouth than the upper first molar). In this abnormal relationship, the lower teeth and jaw project further forward than the upper teeth and jaws. There is a concave appearance in profile with a prominent chin.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Waxing carving	Waxing: is the contouring of wax pattern or the wax base of trial denture into the desired form. The polished surfaces are outer surfaces which will be in contact with the oral tissues as intimately as the tissue surfaces and they developed by contouring the wax.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Flasking procedure.	the first step is to flask the denture by placing the model with the denture in the bottom flask securing it with plaster. When the plaster is dried, the upper flask is put in place and filled with additional plaster. The flask is then heated until the wax is sufficiently melted.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
16	2	Packing.	packing is a process of building a container or box suitable for a product for transport and storage. Different methods that can be used in packaging are wrapping, cushioning, weatherproofing and sealing. A good packing prevents the product or items from breakage, leakage, pilferage, etc.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

17	2	Finishing & polishing.	rocedure of polishing :- 1. . Smooth the labial, buccal, lingual and palatal external surfaces of the denture with wet pumice on a rag wheel running at slow speed, keep plenty of pumice on the denture surface and keep the denture moving at all time, press the denture lightly against the whee		
18	2	Finishing & polishing.	rocedure of polishing :- 1. . Smooth the labial, buccal, lingual and palatal external surfaces of the denture with wet pumice on a rag wheel running at slow speed, keep plenty of pumice on the denture surface and keep the denture moving at all time, press the denture lightly against the whee	Continuous guidance of students by the professor durin daily lectures	Through discussions, direct questioning, and daily exams.
19	2	, Retention, stability an support	What is retention and stability of complete dentures? Carefully designed	Continuous guidance of students by the professor durin	Through discussions, direct questioning,

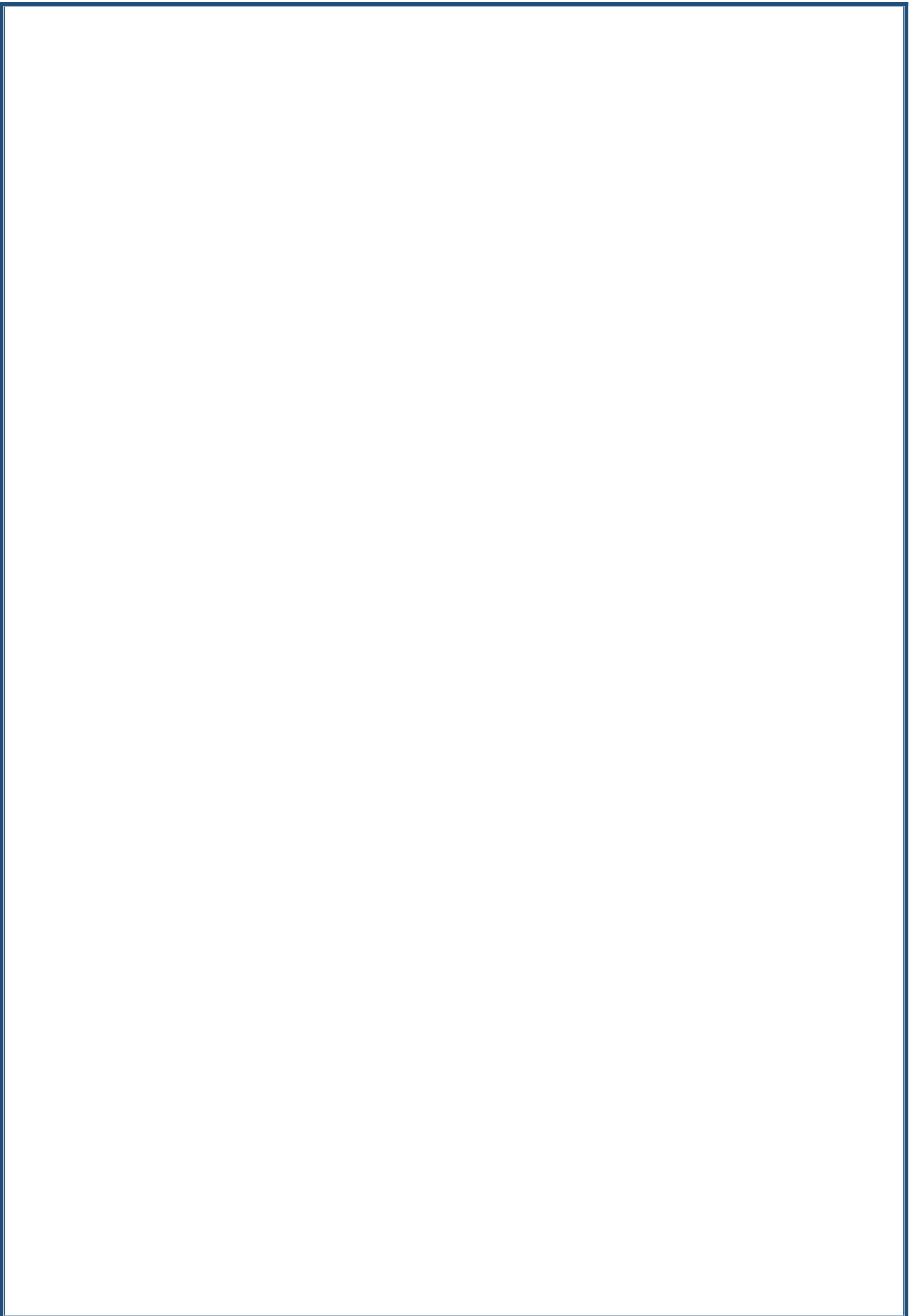
			<p>external denture contours (i.e., cameo or polished denture surfaces) may contribute substantially to prosthesis stability and retention. Successful denture wearers master patterns of oral-facial muscular activity serve to retain, rather than displace, their prostheses</p>	daily lectures	and daily exams.
20	2	Relining C.D.	<p>relining is resurfacing the tissue side of a denture with a new material to fill the space that exists between the original denture contour and the altered tissue contour. We know that for complete dentures currently in function, we need to periodically assess and correct the fi</p>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
21	2	Rebasing for C.D.	<p>rebasing is a more dramatic adjustment that entails retrofitting the dentures by replacing the entire acrylic base with new acrylic. The</p>	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

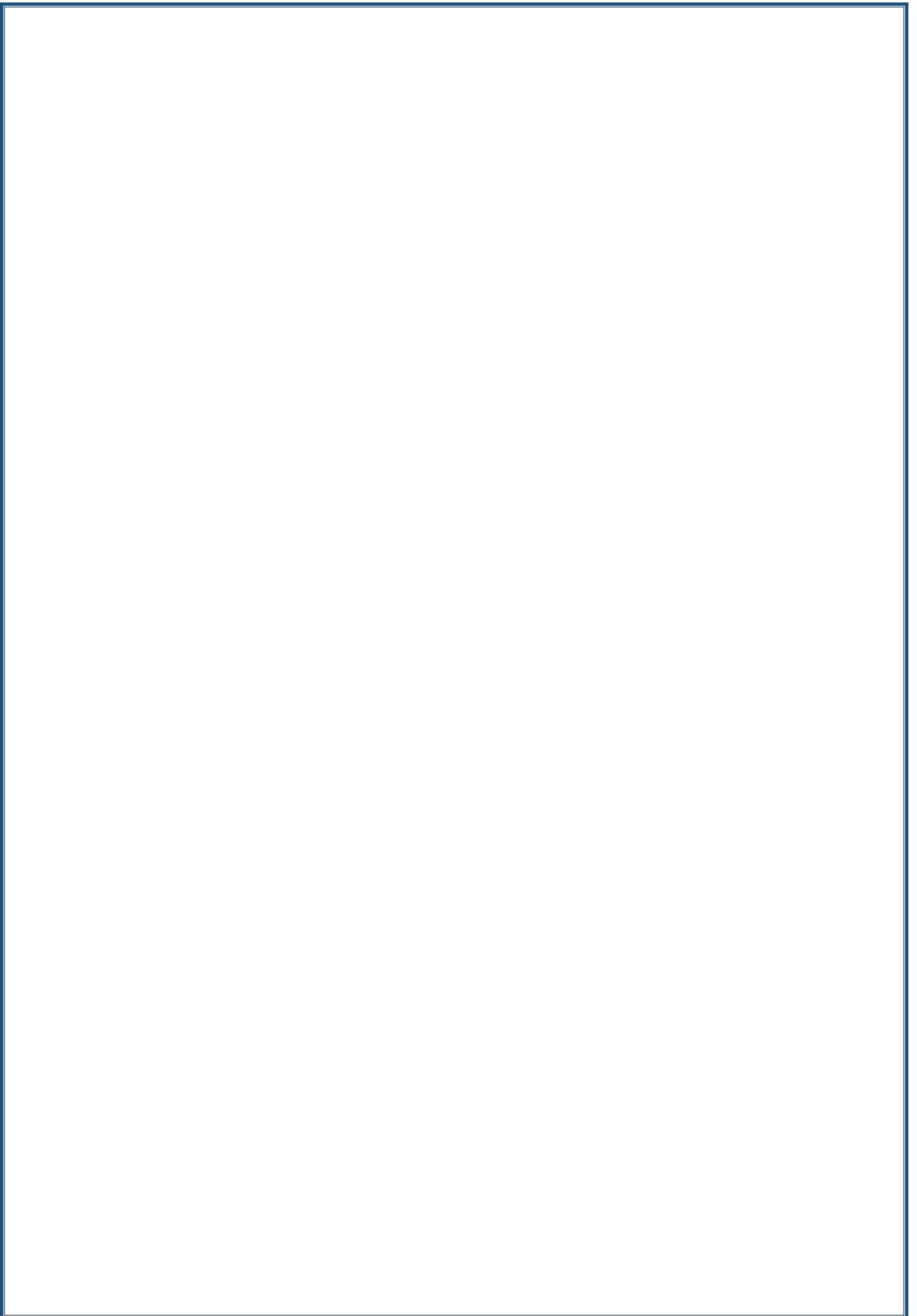
			procedure makes the denture more stable without changing the denture teeth		
22	2	Repair for C.D.	repairing of complete denture fracture-1 when all broken parts are available... of conventional self-cure resin to repair fracture denture. clasp fractures	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
23	2	Materials used for denture base.	Explain various materials used in CD like pmma	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
24	2	Types of teeth according to material & cusp inclined.	Explain types of materials of the teeth like porcelain and acrylic	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
25	2	Immediate denture	Explain how we make CD direct at the same time of extraction	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
26	2	Duplication of C.D.	Definition A duplicate denture is a second denture intended to be a copy of the first denture. Synonyms Copy dentures, Template dentures, Replica dentures	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
27	2	Over denture.	An overdenture is a denture, the base of which covers one or more teeth, prepared roots or implants. An overdenture is usually	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

			used for elderly patients that have lost some teeth but not all, rendering them suitable for a set of full dentures. The overdenture is not rigid in the mouth; it is removable.		
28	2	Soft tissue liner.	soft liners are materials that can be advocated successfully to manage clinical situations like atrophic edentulous ridges with flabby displaceable tissues and in cases of severely resorbed ridges which adversely affect the retention and stability of complete dentures and further enhance bone loss.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
29	2	Single C.D. opposing natural teeth or restore teeth.	asingle-tooth denture is a type of partial denture used to replace only one missing tooth, temporary and not durable. Dentists often suggest getting single dentures as a temporary tooth replacement option while you wait for a bridge or implan	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
30	2	Dental implant.	three most common types of dental implants are endosteal, subperiosteal, and zygomatic. Endosteal is the most common and safe method.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

			Subperiosteal comes next, and zygomatic is the most complicated		
<b>11. Course Evaluation</b>					
Distributing the grade out of 100 according to the tasks assigned to the student, such as:					
1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)					
2- Evaluation (5 marks)					
3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).					
<b>12. Learning and Teaching Resources</b>					
Required textbooks (curricular books, if any)			Winkler S. Essentials of Complete Dent Prosthodontics.2nd ed. Year Book Medical Pub, 198		
Main references (sources)			College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department		
Recommended books and references (scientific journals, reports...)			. Zarb, George A. (and others). Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prosthodontics.12th ed. St. Louis, MO: Mosby, 2004. Winkler S. 2. Winkler S. Essentials of Complete Denture Prosthodontics.2nd ed. Year Book 3. Medical Pub,1988. 4. Sowter, J.B. and Barton, R.E. Removable Prosthodontic Techniques (Dental Laboratory Technology Manuals). Rev. ed. University of North Carolina Press, 1987. 5. Morrow, Robert M., Rudd, Kenneth D., Rhoads, John E. Dental Laboratory Procedures Complete Dentures & Maxillofacial Procedures.Mosby Company, 1986		
Electronic References, Websites			Specialized websites, educational videos and explanations on YouTube.		







## Course Description Form

<b>1. Course Name:</b>	
Crown and bridge (Basic)	
<b>2. Course Code:</b>	
<b>3. Semester / Year:</b>	
Year	
<b>4. Description Preparation Date:</b>	
1/3/2024	
<b>5. Available Attendance Forms:</b>	
Attendance	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
90H (4 unit)	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Huda Abed Hasson Email: hudah1972@gmail.com	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<p>The students can introduce and use material for the crown and bridge</p> <p>Ability of students to make fixed bridge</p> <p>Make wax patterns for the manufacture of dental fixed bridge</p> <p>Step by step the casting process for manufacturing dental bridge</p> <p>Perform grinding and polishing process of dental fixed bridge</p>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<p>At the beginning of the lecture, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested under guidance. Direct questions and discussions, in addition to feedback and daily surprise exams.</p>

## 10. First Course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Fixed partial dentures	Basics component of fixed bridge design, type and indication,	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Pontic design	Evaluation pontic design	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Different type of working cast and die system	Evaluation Different type of working cast and die system	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Fundamentals of occlusion	Definition and Explain dental occlusion	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Method of waxing procedure	Definition and Explain waxing procedure	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Waxing procedure of Anterior teeth	Definition and classification (full anatomy)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Waxing procedure of posterior teeth	Definition and classification (full anatomy)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
8	2	Spruing, technique, type Of sprue	Explain spruing Procedure	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

9	2	Provisional crown and Bridge material and technique	Explain Provisional crown and Bridge material and technique	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Implant supported prostheses.	Explain Implant supported prostheses.	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Gold and alternative Metal alloy for crown And bridge construction	Explain Gold and alternative Metal alloy for crown And bridge construction	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Wax pattern	Make method of wax Pattern	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Spruing and investing	Explained how to Spruing and investing	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Burnout and Casting	Explained how to Burnout and Casting	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Finishing and polishing	Perform grinding and polishing process of fixed removable partial denture (bridge)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

### 1. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:

1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

### 2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Introduction of dental materials 2- A review on dental materials 3- Handbook of Dental Materials
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(contemporary fixed prostheses) by Richard (base metal alloy used for dental restoration and implant) by Michael roach
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.

## Course Description Form

1. Course Name: English for 3 <sup>rd</sup> year					
2. Course Code:					
3. Semester / Year: year					
4. Description Preparation Date: 11/3/2024					
5. Available Attendance Forms: Weekly/ theoretical					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Sali Nabeel Jabrou Email: sally.nabil@mtu.edu.iq					
8. Course Objectives					
Course Objectives			Learn about the rules of the English language Learn how to write spelling correctly... writing an administrative speech and drafting in the proper manner... Developing the student's ability to discuss, and perform assignments		
9. Teaching and Learning Strategies					
Strategy		Lectures and discussions Brainstorming strategy Community work strategy Strategy for dialogue and exchange of opinions			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1,2	1	The student understands the topic	Auxiliary verbs	theoretical	general questions And discuss
3,4	1	The student identifies the topic	Present tenses	theoretical	general questions And discuss

5,6	1	The student understands the topic	Past tenses	theoretical	general questions An discuss
7,8	1	The student identifies the topic	Modal verbs ( 1)	theoretical	general questions An discuss
9,10	1	The student identifies the topic	Future forms	theoretical	general questions An discuss
11,	1	The student identifies the topic	Questions with like	theoretical	general questions An discuss
13,	1	The student identifies the topic	Present Perfect	theoretical	general questions An discuss
15,	1	The student identifies the topic	Conditionals	theoretical	general questions An discuss
17,	1	The student identifies the topic	Modal verbs (2)	theoretical	general questions An discuss
19,	1	The student identifies the topic	Present Perfect Continuous	theoretical	general questions An discuss
21,	1	The student identifies the topic	Indirect questions	theoretical	general questions An discuss
23,	1	The student identifies the topic	Question tags	theoretical	general questions An discuss
25,	1	The student identifies the topic	Time expressions	theoretical	general questions An discuss
27,	1	The student identifies the topic	probability	theoretical	general questions An discuss



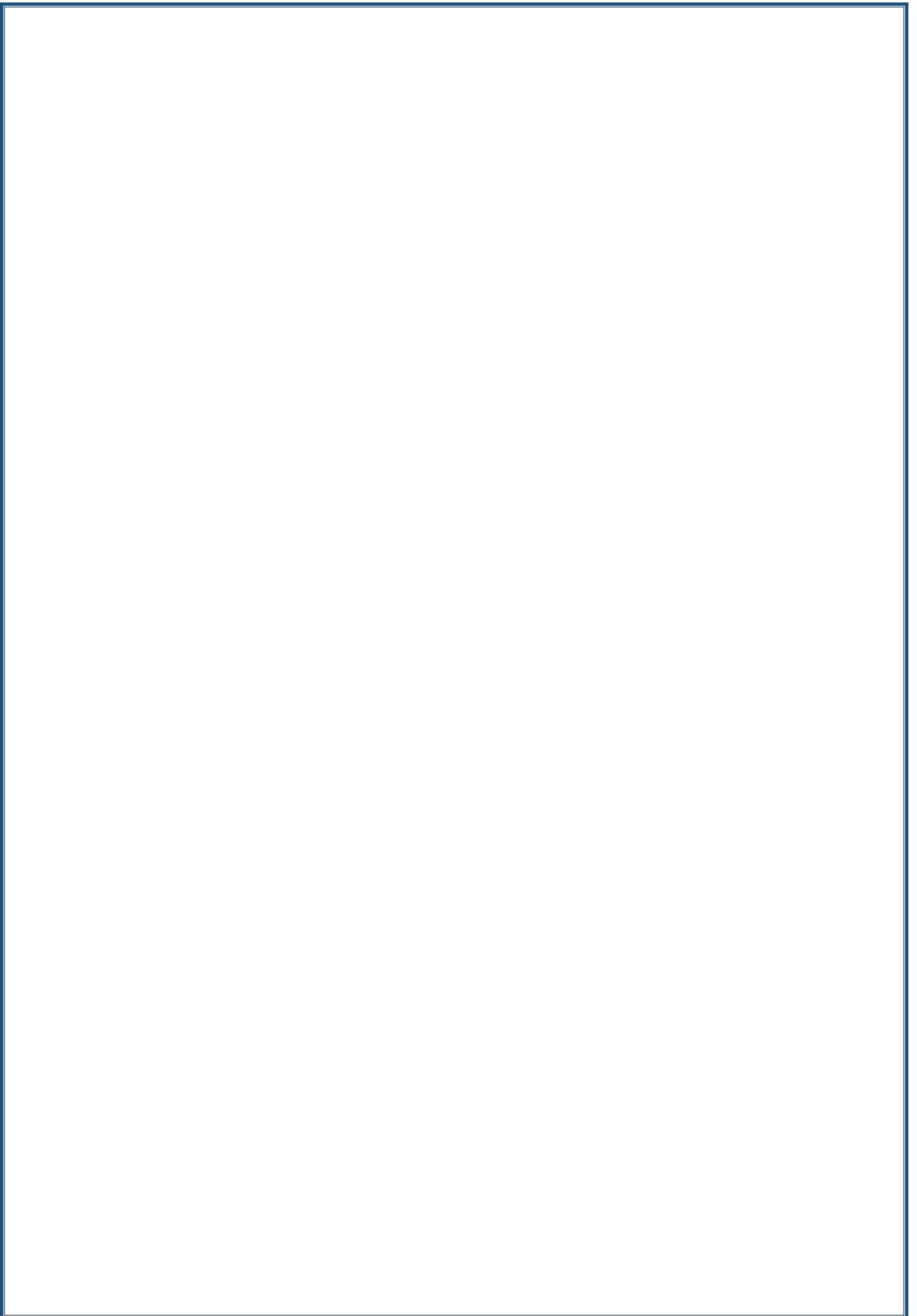
29,	1	The student identifies the topic	Reported speech	theoretical	general questions And discuss
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### 11. Course Evaluation

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

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Intermediate Student's Book, Liz and John Soars
Main references (sources)	Intermediate Student's Book, Liz and John Soars
Recommended books and references (scientific journals, reports...)	/
Electronic References, Websites	/



## Course Description Form

1. Course Name:	
Anatomy of head and neck	
2. Course Code:	
3. Semester / Year:	
Semester	
4. Description Preparation Date:	
3/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist.Prof. Hussein Bashar Mahmood Email: hussain.bashar@alsafwa.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>Understanding the fundamentals of Head and neck anatomy and the description of the main structures in order to identify the primary pathogenic agent</li> <li>Understanding of the primary roles played by the body's architecture, Introducing the students to the details of the details of the Jaw and jaw compensation.</li> <li>Discussing the methods of using anatomical details and identifying the compositions of these materials.</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	A quick recap of the previous content is given at the start of the lesson. The new subject is then presented, beginning with a fundamental idea and progressing through an explanation using modern teaching methods such office applications, data displays, display screens, and personal computers. The pupils take an exam under supervision after the lesson. There will be direct questions and debates in addition to daily

surprise quizzes and feedback.

### 10. First Course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to the anatomy of head and neck	Basics science	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Anatomical terminology and anatomical position	Basics science	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	definition and description of the skull from the Anterior, superior, lateral & posterior views	The Skull	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Frontal bone: description, parts, and articulation Parietal bones: description, parts, and articulation sphenoid bone: description, parts, and articulation	Cranial bones	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Temporal bone: description, parts, and articulation Ethmoid bone: description, parts, and articulation Occipital bone: description, parts, and articulation	Cranial bones	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Maxillary bones: description, parts and articulation Palatine bone: description, parts and articulation	Facial bones	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Mandible: description, parts and articulation Zygomatic bone: description	Facial bones:	Continuous guidance of students by the	Through discussions, direct

		parts and articulation		professor during daily lectures	questioning, and daily exams.
8	2	Nasal bone, lacrimal bone, inferior nasal concha, vomer	Facial bones:	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	definition, walls	Nasal cavity	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	definition, walls, and margins	Orbit	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	major muscles: origin insertion and action	Muscles of facial expression	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	minor muscles: origin insertion and action	Muscles of facial expression	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	origin insertion and action	Muscles of mastication	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	course and branches	Sensory innervations of the face: Facial nerve	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Trigeminal nerve: course and branches	Motor innervations of the face	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

## 11. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:

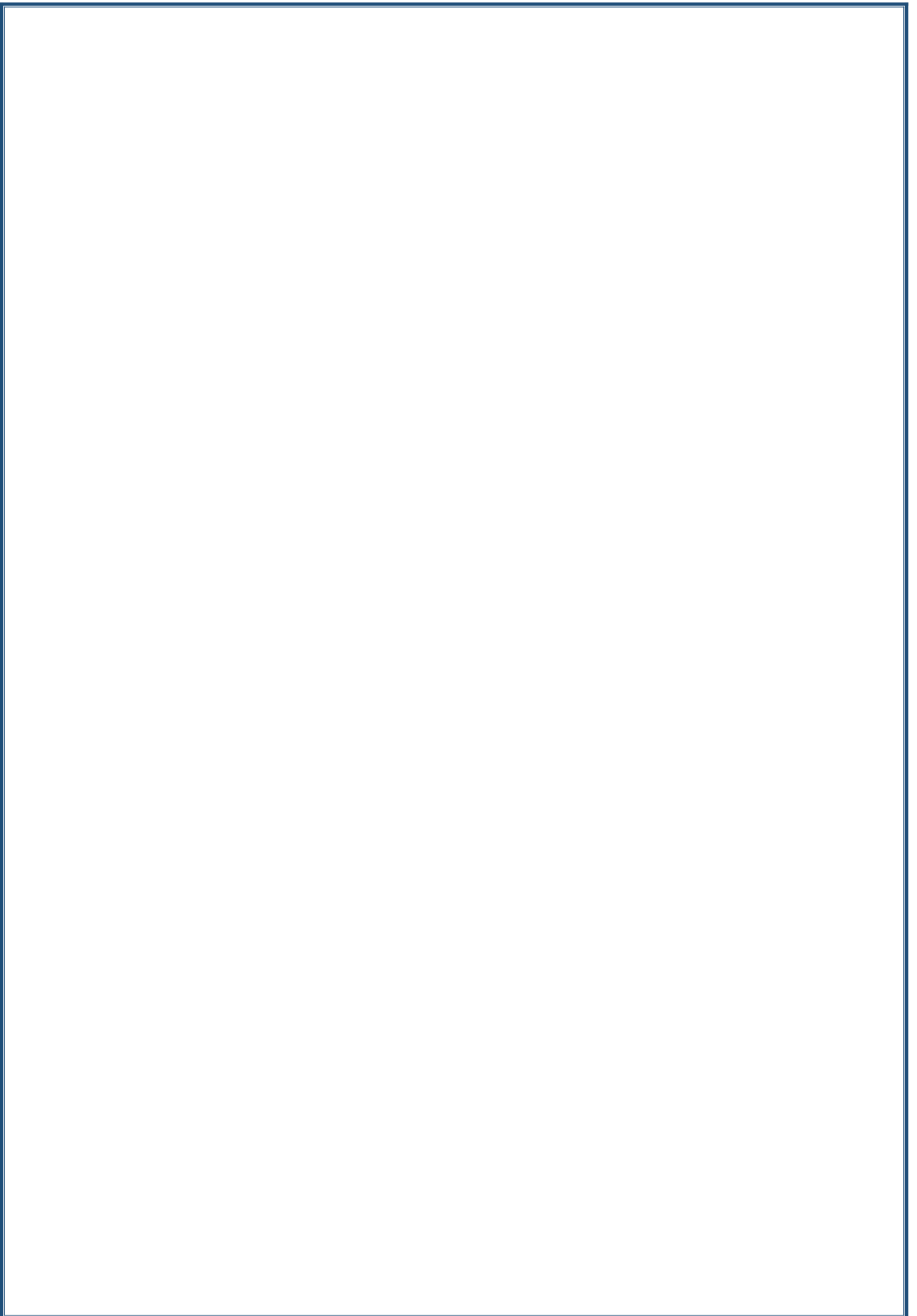
1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1 -Textbook of Head and Neck Anatomy 2- Clinical Head and Neck Anatomy Surgeons
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(Textbook of Head and Neck Anatomy) by · By James L. Hiatt, PhD (Clinical Head and Neck Anatomy for Surgeons) by Peter A. Brennan, Vishy Mahadevan, Barrie T. Evans
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name:	
Dental material (Basic)	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
2/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
105H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: Hussein mohammed sadeq Email: hussain.mohammed@alsafwa.edu.iq	
8. Course Objectives	
<p><b>Course Objectives</b></p>	<ul style="list-style-type: none"> <li>Knowledge of the principles of dental materials science and the terminology used in this field.</li> <li>Knowledge of the biological, chemical, physical, mechanical and optical properties of dental materials</li> <li>Discussing the methods of using medical materials (metals, polymers and ceramic materials) and identifying the compositions of these materials.</li> </ul>
9. Teaching and Learning Strategies	
<p><b>Strategy</b></p>	<p>At the beginning of the lecture, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested under guidance. Direct questions and discussions, in addition to feedback and daily surprise exams.</p>



## 10. First Course

<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction, Classification of dental materials,	Basics of material science	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Requirements of Dental Materials, Oral Environment	Requirements and evaluation of dental materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Crystalline and amorphous solid materials, Metallic Crystal Structures, Non-crystalline (Amorphous) Structures, Unit cell	The structure of solid materials and interatomic bonds	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Elastic deformation (reversible), Plastic deformation (irreversible), Force, Stress & Strain	The mechanical properties of the solid materials (Part I)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Tensile Stress, Compressive Stress, Shear Stress, Flexural Stress (bending), Strength, Elastic stress	The mechanical properties of the solid materials (Part II)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Rheology, Classification of fluids based on rheology, Thixotropic, Structural Relaxation, Creep	The mechanical properties of the solid materials (Rheological properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Adhesion, Cohesion, Mechanisms of Adhesion, Contact Angle and Surface Tension, Chemical Adhesion, Dispersive Adhesion,	The physical properties of the solid materials (adhesion and cohesion)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

		Diffusive Adhesion, Mechanical Adhesion			
8	2	Temperature, Thermal Conductivity, Thermal diffusivity, Thermal coefficient expansion, Heat of fusion, Latent heat of solidification, Specific heat, Water Sorption.	The physical properties of the solid materials (thermal properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Electrical Properties of Materials, Electronic and Ionic Conduction, Ohm Law, Electrical Conductivity	The physical properties of the solid materials (electrical properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Introduction, surface hardness, The laws of Mechanics, Corrosion, Corrosion may be classified, Abrasion and abrasion resistance	The physical properties of the solid materials (surface physico-chemistry)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Introduction, light reflected, Presence of voids, Surface finish and Thickness	The physical properties of the solid materials (surface texture)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Properties of materials in relation to light transmission and absorption, Transparency, Translucency, Opacity, Opacity, clinical considerations, Color parameters, Munsell Color Order System, Factors that effecting color appearance and selection	The physical properties of the solid materials (optical properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Biological requirements of dental materials, Adverse effect from dental material, toxicity, Inflammation, allergic, Local and systemic effect of materials, In vitro tests, The animal test, Correct biocompatibility issues	The biological properties of the solid materials (Biocompatibility)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

		dentistry			
14	2	Introduction, Biofilm formation depended, Surface Energy, Surface Roughness.	The biological properties of the solid materials (Biofilm formation and Bio-adhesion)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Introduction, chemical requirements of dental materials, chemical Properties of Materials oxidation, Chemical corrosion, Acidity and alkalinity	The chemical properties of the solid materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

### 10. second Course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Polymers, Monomer, Copolymer, Molecular weight, Synthetic Polymer	Polymers in dentistry (Basic structure of polymer)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
2	2	Polymerization, Addition Polymerization, Condensation polymerization, Example of synthetic polymers (PMMA)	Polymers in dentistry (polymerization and crosslinking reactions)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Non-Metallic denture base, Cellulose products, Vinyl resin, Vulcanite rubber, Metallic denture base, Cobalt chromium, gold alloys, Stainless steel	Resins, artificial teeth materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Poly methyl methacrylate (PMMA), Powder, Liquid, Polymer/Monomer interaction,	Acrylic resin material (denture base materials)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Heat cure & cold cure acrylic resin, The primary	Classification and properties of dental acrylic	Continuous guidance of students by the	Through discussions, direct

		function of denture base, Ideal Physical and Chemical Requirements,	resin materials	professor during daily lectures	questioning, and daily exams.
6	2	Types of denture base according to support, Types of the denture base according to materials, Manipulation of heat cure acrylic, Comparative tissue response, Disadvantages of metal denture base	Denture liner materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Introduction, Composition of waxes, properties of dental waxes	Wax (composition and properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
8	2	dimensional change of wax, flow, surface properties, color stability	Dental wax (Thermal, physical, and chemical properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Classification of waxes according to their origin, Classification of waxes according to the Application in Dentistry, Synthetic Waxes, Natural waxes, Pattern wax, Inlay wax	Dental wax (types and uses)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	calcium sulfate dehydrate ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ), calcium sulfate hemi-hydrate, silica, modifiers, reducing agent, color agent	Gypsum products (chemistry and composition)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Casts and dies, Impression material, Types (Impression Plaster, Stone, Die Stone, High Strength High Expansion	Gypsum products (types and uses)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

		Stone			
12	2	Properties of Ideal Model Materials, Theories of setting, Crystalline theory, Gel theory, Steps of setting reaction	Gypsum products (setting reaction and properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Introduction of Dental abrasives, harder materials, contact generator between tensile and shear stress, breck atomic bond	Dental abrasives (definition and concept)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Two body abrasive, three body abrasive	Dental abrasives types	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Factors effecting abrasive, Erosion, cutting, grindings, polishing	Dental abrasives (procedure and application)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

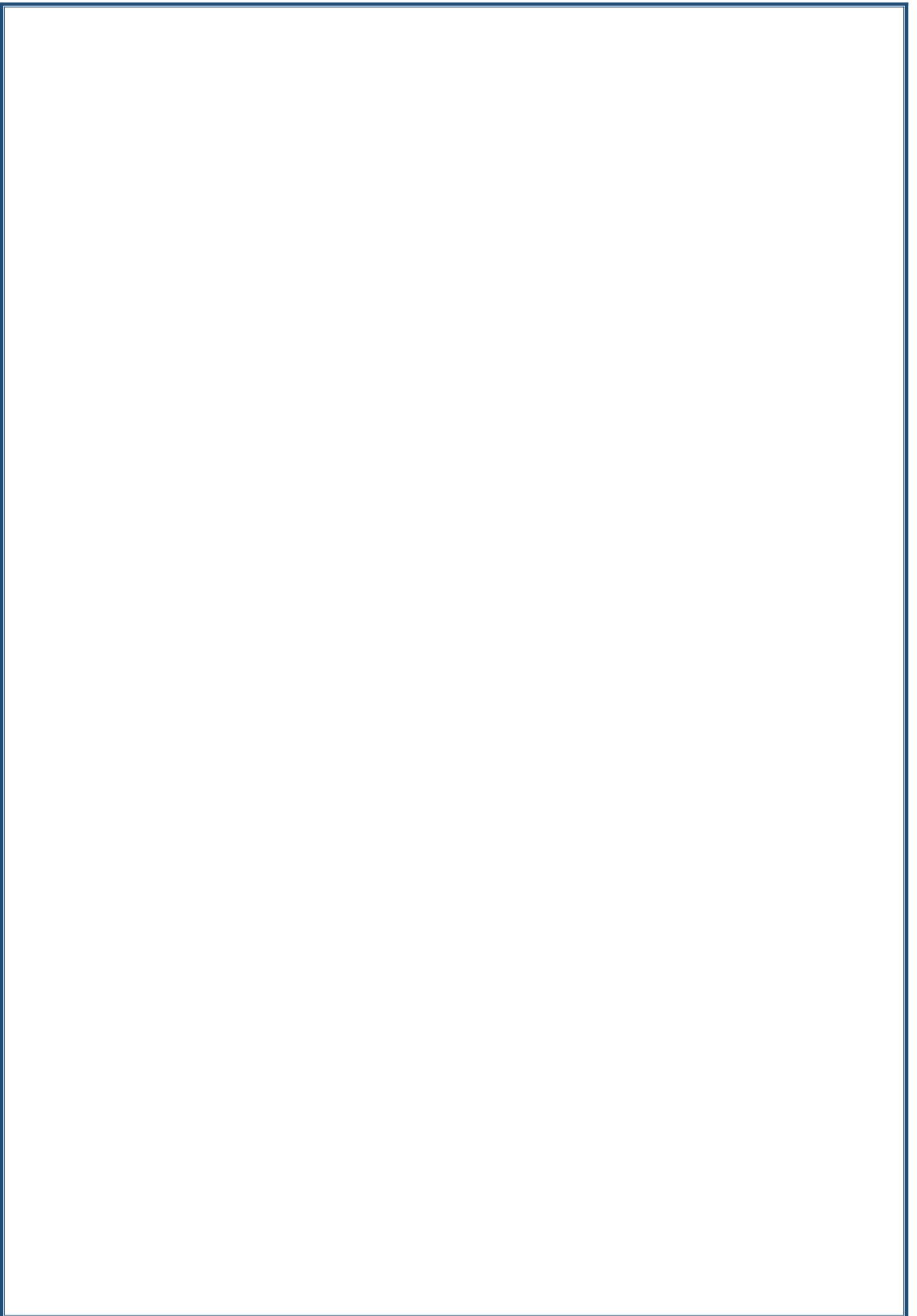
## 1. Course Evaluation

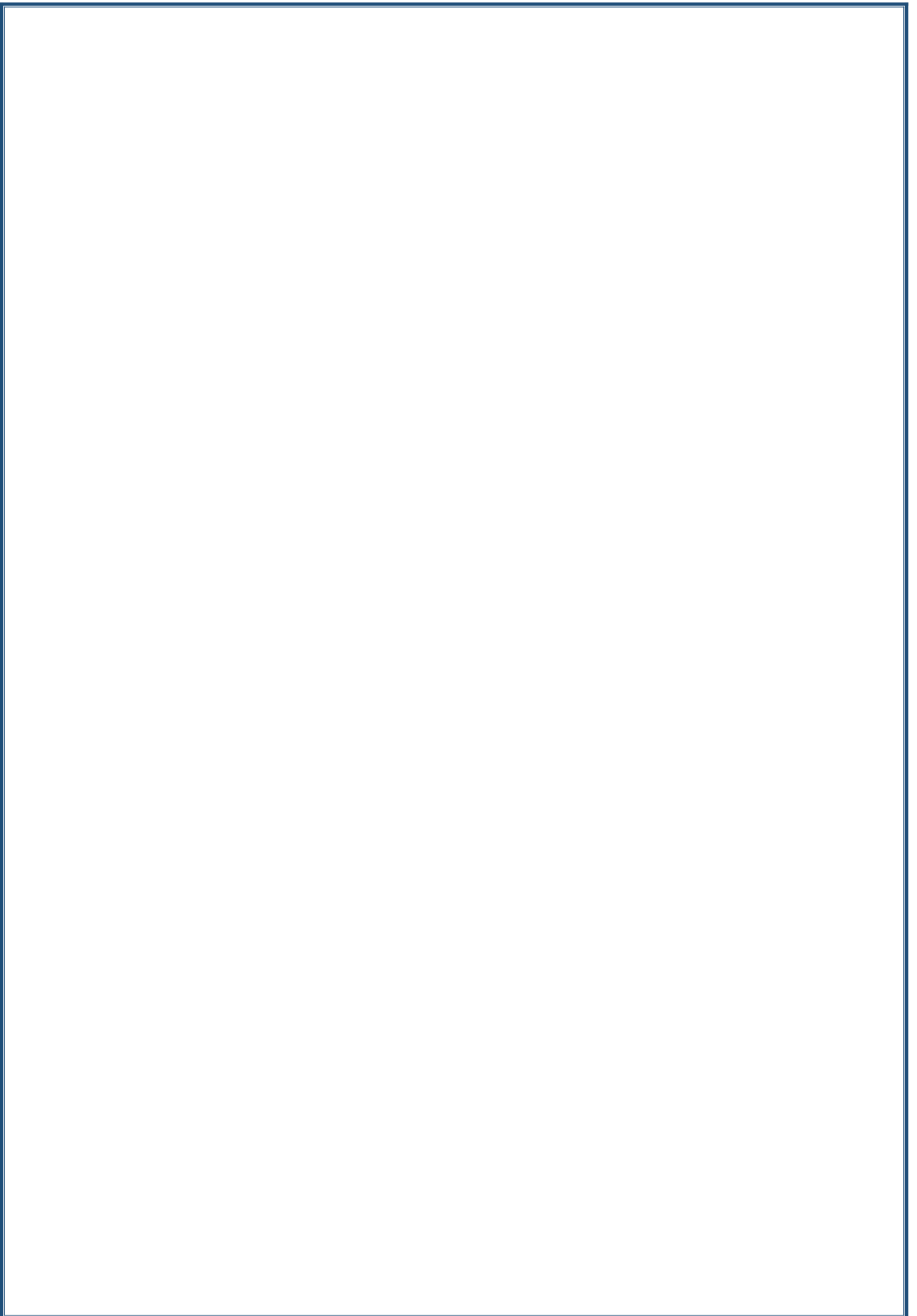
Distributing the grade out of 100 according to the tasks assigned to the student, such as:

- 1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)
- 2- Evaluation (5 marks)
- 3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Introduction of dental materials 2- A review on dental materials 3- Handbook of Dental Materials
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(Introduction of dental materials) by Richard van Noort, (Handbook of Dental Materials) V. Shama Bhat, (A review on dental materials) Hamid Reza Rezaie , Hassan Beigi Rizi , Mojdeh Mahdi Rezaei Khamseh
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.





## Course Description Form

1. Course Name:	
Oral histology	
2. Course Code:	
3. Semester / Year:	
Semester	
4. Description Preparation Date:	
3/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist.Prof. Hussein Bashar Mahmood Email: hussain.bashar@alsafwa.edu.iq	
8. Course Objectives	
<p><b>Course Objectives</b></p>	<ul style="list-style-type: none"> <li>Understanding the fundamentals of histological and the description of the histological oral structures in order to identify the primary pathogenic agent</li> <li>Understanding of the primary roles played by the body's architecture, cellular constituents, and varieties of connective tissue</li> <li>Discussing the methods of using oral histology and identifying the compositions of these materials.</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	<p>The lecture begins with an update of the prior material through a brief review. Next, the new topic is introduced, starting with a basic concept and being further explained utilizing contemporary teaching techniques such as office programs, data shows, display screens, and personal computers. Following the lesson, the students take an exam under supervision. Along with feedback and daily surprise quizzes, there will be direct questions and debates.</p>



10. First Course					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Embryological development	Early embryology	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Development of face	Histological structure of the face	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Oral structures	Development of oral cavity	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Enamel, dentine, organic Minerals	Development of teeth	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	formation of the enamel matrix	Amelogenesis	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Structure and Organization of Enamel	Enamel structure	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Characteristics of Dentine	Dentinogenesis	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
8	2	Dentinal tubules(D.T.)	Dentine structure	Continuous	Through

		and its odontoblastic process		guidance of students by the professor during daily lectures	discussions, direct questioning, 2nd daily exams.
9	2	Histological layers of pulp	Pulp	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Classification of cementum	Cementogenesis	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Cementum structure	Chemical & Physical features	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Types, ossification,	Bone formation	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Cellular types	Bone structure	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Support connective tissue	Periodontal ligament	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Types of mucous membrane	Oral mucosa	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

## 11. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:  
1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental

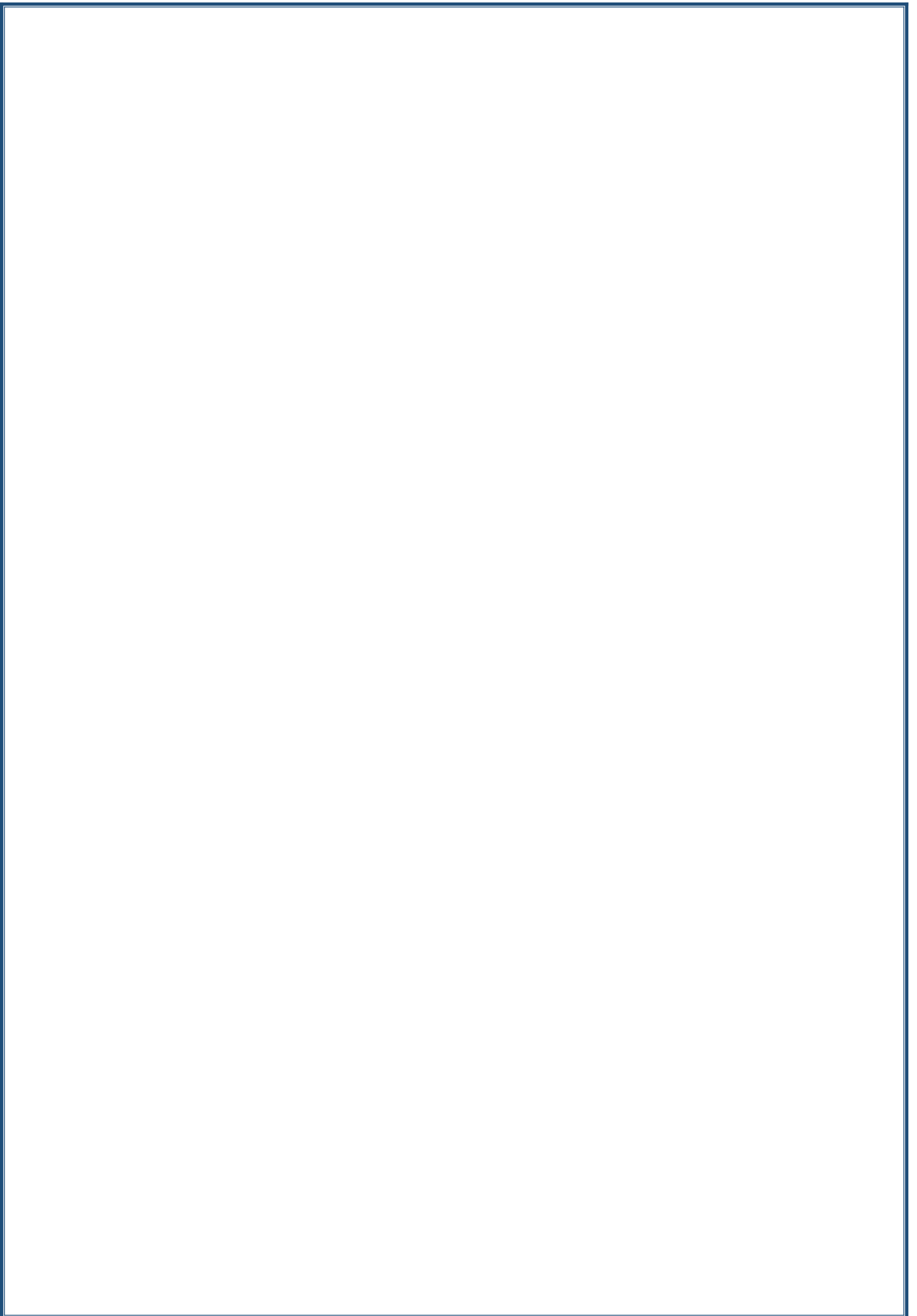
exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1-Atlas of Histology with Functional Correlations 2- Junqueira's Basic Histology Text and Atlas
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(Atlas of Histology with Functional Correlations) by Wojciech Pawlina (Junqueira's Basic Histology Text and Atlas) by Junqueira
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name:	
Dental material (Basic)	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
2/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
105H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: Hussein mohammed sadeq Email: hussain.mohammed@alsafwa.edu.iq	
8. Course Objectives	
<p><b>Course Objectives</b></p>	<ul style="list-style-type: none"> <li>Knowledge of the principles of dental materials science and the terminology used in this field.</li> <li>Knowledge of the biological, chemical, physical, mechanical and optical properties of dental materials</li> <li>Discussing the methods of using medical materials (metals, polymers and ceramic materials) and identifying the compositions of these materials.</li> </ul>
9. Teaching and Learning Strategies	
<p><b>Strategy</b></p>	<p>At the beginning of the lecture, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested under guidance. Direct questions and discussions, in addition to feedback and daily surprise exams.</p>

## 10. First Course

<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction, Classification of dental materials,	Basics of material science	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Requirements of Dental Materials, Oral Environment	Requirements and evaluation of dental materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Crystalline and amorphous solid materials, Metallic Crystal Structures, Non-crystalline (Amorphous) Structures, Unit cell	The structure of solid materials and interatomic bonds	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Elastic deformation (reversible), Plastic deformation (irreversible), Force, Stress & Strain	The mechanical properties of the solid materials (Part I)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Tensile Stress, Compressive Stress, Shear Stress, Flexural Stress (bending), Strength, Elastic stress	The mechanical properties of the solid materials (Part II)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Rheology, Classification of fluids based on rheology, Thixotropic, Structural Relaxation, Creep	The mechanical properties of the solid materials (Rheological properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Adhesion, Cohesion, Mechanisms of Adhesion, Contact Angle and Surface Tension, Chemical Adhesion, Dispersive Adhesion,	The physical properties of the solid materials (adhesion and cohesion)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

		Diffusive Adhesion, Mechanical Adhesion			
8	2	Temperature, Thermal Conductivity, Thermal diffusivity, Thermal coefficient expansion, Heat of fusion, Latent heat of solidification, Specific heat, Water Sorption.	The physical properties of the solid materials (thermal properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Electrical Properties of Materials, Electronic and Ionic Conduction, Ohm Law, Electrical Conductivity	The physical properties of the solid materials (electrical properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Introduction, surface hardness, The laws of Mechanics, Corrosion, Corrosion may be classified, Abrasion and abrasion resistance	The physical properties of the solid materials (surface physico-chemistry)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Introduction, light reflected, Presence of voids, Surface finish and Thickness	The physical properties of the solid materials (surface texture)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Properties of materials in relation to light transmission and absorption, Transparency, Translucency, Opacity, Opacity, clinical considerations, Color parameters, Munsell Color Order System, Factors that effecting color appearance and selection	The physical properties of the solid materials (optical properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Biological requirements of dental materials, Adverse effect from dental material, toxicity, Inflammation, allergic, Local and systemic effect of materials, In vitro tests, The animal test, Correct biocompatibility issues	The biological properties of the solid materials (Biocompatibility)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

		dentistry			
14	2	Introduction, Biofilm formation depended, Surface Energy, Surface Roughness.	The biological properties of the solid materials (Biofilm formation and Bio-adhesion)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Introduction, chemical requirements of dental materials, chemical Properties of Materials oxidation, Chemical corrosion, Acidity and alkalinity	The chemical properties of the solid materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

### 10. second Course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Polymers, Monomer, Copolymer, Molecular weight, Synthetic Polymer	Polymers in dentistry (Basic structure of polymer)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
2	2	Polymerization, Addition Polymerization, Condensation polymerization, Example of synthetic polymers (PMMA)	Polymers in dentistry (polymerization and crosslinking reactions)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	Non-Metallic denture base, Cellulose products, Vinyl resin, Vulcanite rubber, Metallic denture base, Cobalt chromium, gold alloys, Stainless steel	Resins, artificial teeth materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Poly methyl methacrylate (PMMA), Powder, Liquid, Polymer/Monomer interaction,	Acrylic resin material (denture base materials)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Heat cure & cold cure acrylic resin, The primary	Classification and properties of dental acrylic	Continuous guidance of students by the	Through discussions, direct



		function of denture base, Ideal Physical and Chemical Requirements,	resin materials	professor during daily lectures	questioning, and daily exams.
6	2	Types of denture base according to support, Types of the denture base according to materials, Manipulation of heat cure acrylic, Comparative tissue response, Disadvantages of metal denture base	Denture liner materials	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Introduction, Composition of waxes, properties of dental waxes	Wax (composition and properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
8	2	dimensional change of wax, flow, surface properties, color stability	Dental wax (Thermal, physical, and chemical properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
9	2	Classification of waxes according to their origin, Classification of waxes according to the Application in Dentistry, Synthetic Waxes, Natural waxes, Pattern wax, Inlay wax	Dental wax (types and uses)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	calcium sulfate dehydrate ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ), calcium sulfate hemi-hydrate, silica, modifiers, reducing agent, color agent	Gypsum products (chemistry and composition)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Casts and dies, Impression material, Types (Impression Plaster, Stone, Die Stone, High Strength High Expansion	Gypsum products (types and uses)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

		Stone			
12	2	Properties of Ideal Model Materials, Theories of setting, Crystalline theory, Gel theory, Steps of setting reaction	Gypsum products (setting reaction and properties)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Introduction of Dental abrasives, harder materials, contact generator between tensile and shear stress, breck atomic bond	Dental abrasives (definition and concept)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Two body abrasive, three body abrasive	Dental abrasives types	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Factors effecting abrasive, Erosion, cutting, grindings, polishing	Dental abrasives (procedure and application)	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

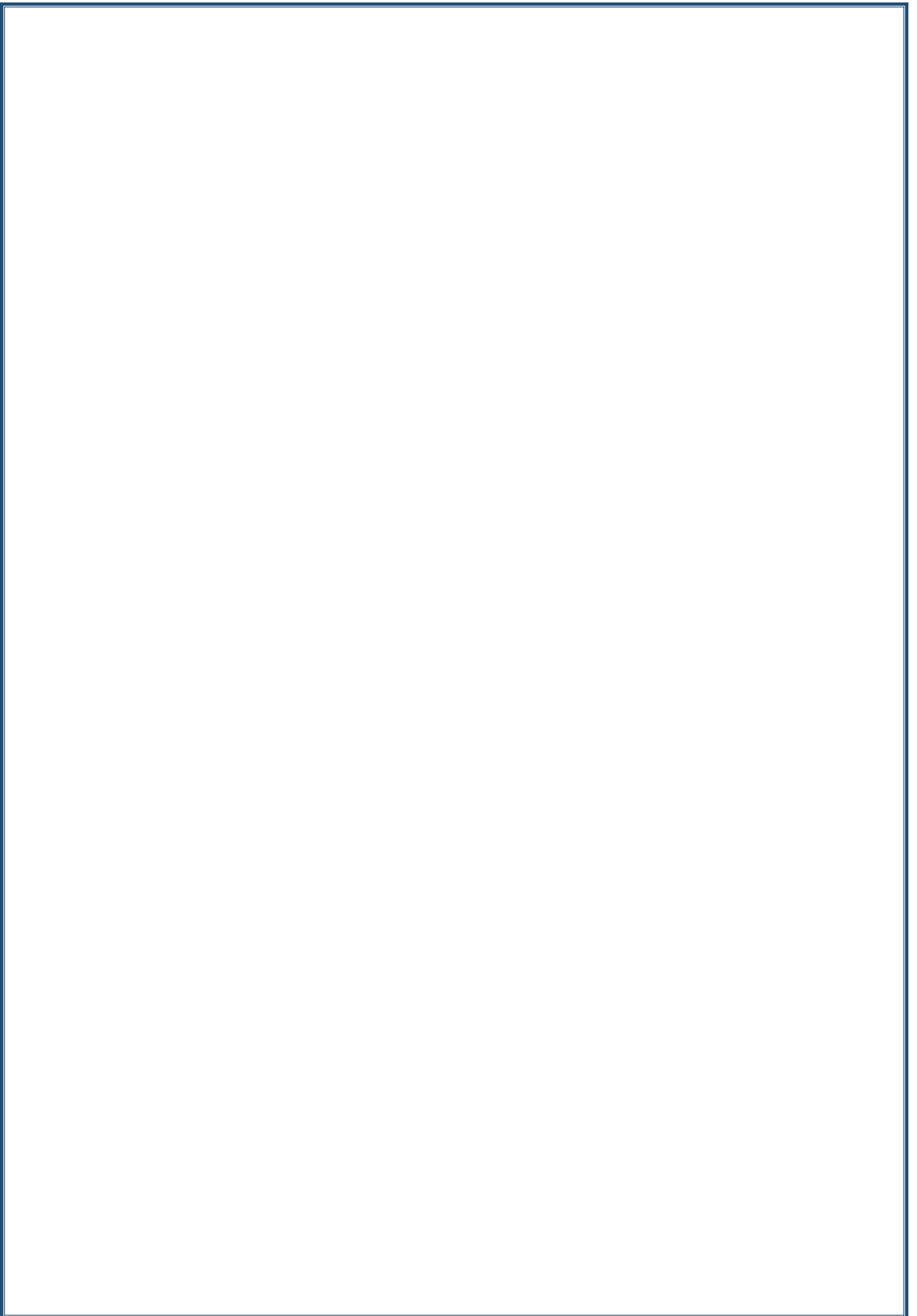
## 1. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:

- 1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)
- 2- Evaluation (5 marks)
- 3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Introduction of dental materials 2- A review on dental materials 3- Handbook of Dental Materials
Main references (sources)	College of Health and Medical Techniques/ Baghdad/Prosthetic Dental Techniques Department
Recommended books and references (scientific journals, reports...)	(Introduction of dental materials) by Richard van Noort, (Handbook of Dental Materials) V. Shama Bhat, (A review on dental materials) Hamid Reza Rezaie , Hassan Beigi Rizi , Mojdeh Mahdi Rezaei Khamseh
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.



## Course Description Form

1. Course Name: English for medicine and health science					
2. Course Code:					
3. Semester / Year: semester					
4. Description Preparation Date: 11/3/2024					
5. Available Attendance Forms: Weekly/ theoretical					
6. Number of Credit Hours (Total) / Number of Units (Total)					
3 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Sali Nabeel Jabrou Email: sally.nabil@mtu.edu.iq					
8. Course Objectives					
Course Objectives			Learn about the rules of the English language Learn how to write spelling correctly... writing an administrative speech and drafting in the proper manner... Developing the student's ability to discuss, and perform assignments		
9. Teaching and Learning Strategies					
Strategy		Lectures and discussions Brainstorming strategy Community work strategy Strategy for dialogue and exchange of opinions			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	The student understands the topic	Phonetic Alphabet	theoretical	general questions And discuss
2	3	The student identifies the topic	Cardinal, numbers years, price, time	theoretical	general questions And discuss

3	3	The student understands the topic	Questions words	theoretical	general questions An discuss
4	3	The student identifies the topic	Adjectives	theoretical	general questions An discuss
5	3	The student identifies the topic	Present and past Tenses	theoretical	general questions An discuss
6	3	The student identifies the topic	Present continuous Tense	theoretical	general questions An discuss
7	3	The student identifies the topic	possession	theoretical	general questions An discuss
8	3	The student identifies the topic	Language of medicine	theoretical	general questions An discuss
9	3	The student identifies the topic	Language of medicine	theoretical	general questions An discuss
10	3	The student identifies the topic	Language of medicine	theoretical	general questions An discuss
11	3	The student identifies the topic	SUFFIXES	theoretical	general questions An discuss
12	3	The student identifies the topic	prefixes	theoretical	general questions An discuss
13	3	The student identifies the topic	Body structure Plan of the body	theoretical	general questions An discuss
14	3	The student identifies the topic	Body position	theoretical	general questions An discuss

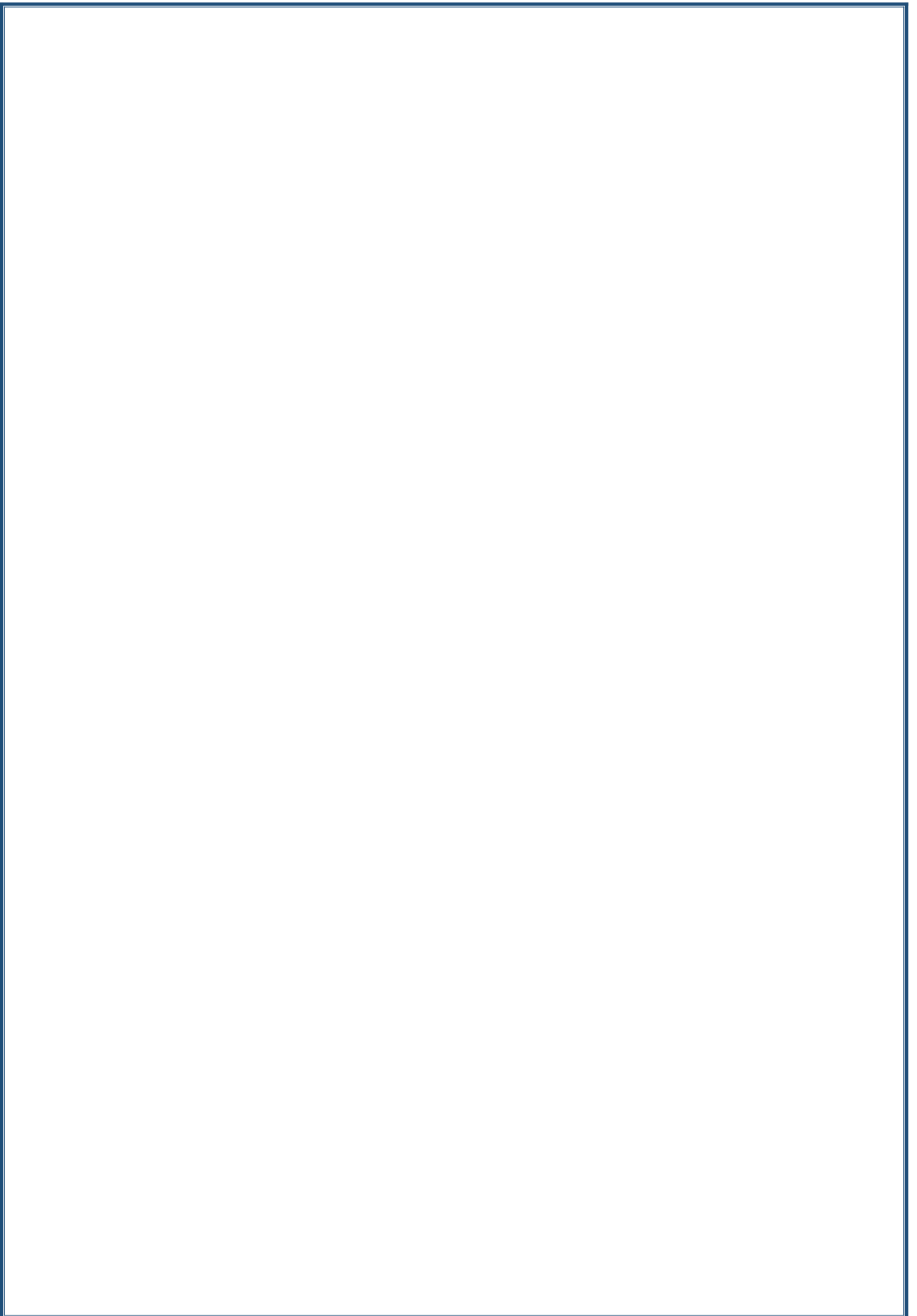
15	3	The student identifies the topic	Body cavities	theoretical	general questions And discuss
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### 11. Course Evaluation

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

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	English for Medicine and Health Sciences Shehdeh Fareh, PhD
Main references (sources)	English for Medicine and Health Sciences Shehdeh Fareh, PhD
Recommended books and references (scientific journals, reports...)	/
Electronic References, Websites	/



## Course Description Form

1. Course Name:	
Dental anatomy (Basic)	
2. Course Code:	
3. Semester / Year:	
Year	
4. Description Preparation Date:	
4/3/2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
105H (for each course)	
7. Course administrator's name (mention all, if more than one name)	
Name: Mahdi Yasser Ahmed Email: Mahdi.Yaser @alsafwa.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>Introducing the student to dental terminology.</li> <li>Providing the student with information related.</li> <li>The student studies drawing and carving teeth.</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	<p>At the beginning of the lecture, the previous information is updated by doing a quick review and then starting the new topic by taking a simple idea and then explaining the lecture using modern teaching methods, including (personal computers, data shows, display screens, and office programs). Upon completion of the lecture, the students are tested under guidance. Direct questions and discussions, in addition to feedback and daily surprise exams.</p>



## 10. First Course

<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2	Introduction of dental anatomy	Classification of dentition	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams
2	2	Anatomy of tooth structure	Basic of tooth structure	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
3	2	The numbering system of the teeth	systems use in the world	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
4	2	Physiology of teeth (Function) and tooth form	Major function and form	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
5	2	Fundamental of the tooth form	Form of teeth	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
6	2	Proximal contact area, importance and function	importance and function	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
7	2	Physiology of human teeth	Characteristic and function	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
8	2	Anatomical landmarks (anterior teeth)	The landmark in anterior teeth	Continuous guidance of students by the professor during	Through discussions, direct questioning,

				daily lectures	and daily exams.
9	2	Anatomical landmarks (posterior teeth)	The landmark in posterior teeth	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
10	2	Maxillary central Incisor	Characteristic features of permanent maxillary incisors	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
11	2	Maxillary lateral Incisor	Principal Identifying features	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
12	2	Mandibular central Incisor	Characteristic features of permanent mandibular incisors	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
13	2	Mandibular lateral Incisor	Principal Identifying features	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
14	2	Maxillary Canine	Principal Identifying features	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.
15	2	Mandibular Canine	Principal Identifying features	Continuous guidance of students by the professor during daily lectures	Through discussions, direct questioning, and daily exams.

## 11. Course Evaluation

Distributing the grade out of 100 according to the tasks assigned to the student, such as:

1- Mid-course exam (25 marks for Theoretical exam and 10 marks for experimental exam)

2- Evaluation (5 marks)

3- Final (35 marks for Theoretical exam and 25 marks for experimental exam).

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1- Introduction of dental materials 2- A review on dental materials 3- Handbook of Dental Materials
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Recommended books and references (scientific journals, reports...)	(Introduction of dental materials) by Richard van Noort, (Handbook of Dental Materials) V. Shama Bhat, (A review on dental materials) Hamid Reza Rezaie , Hassan Beigi Rizi , Mojdeh Mahdi Rezaei Khamseh
Electronic References, Websites	Specialized websites, educational videos and explanations on YouTube.