

Republic of Yemen
21 September University Of Medical & Applied Sciences



FACULTY OF DENTISTRY
Bachelor of Dental Surgery (B.D.S)
Program Specification

Department of Prosthodontics.

Course Specification of
Pre- Clinical Fixed Prosthodontics - 1

Course Code. (09.12.928)

2025- 2024.

I. General Information:

1.	Course Title:	Pre-Clinical Fixed Prosthodontics – 1				
2.	Course Code:	09.12.928				
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		3	2	--	2	--
4.	Level/ Semester at which this Course is offered:	3 rd Level / 1 st Semester				
5.	Pre –Requisite (if any):	Dental Anatomy and Dental Materials.				
6.	Co –Requisite (if any):	-----				
7.	Program (s) in which the Course is Offered:	Bachelor of Dental Surgery (B.D.S)				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of Dentistry				
10.	Prepared by:	<i>Associate Prof. Mohsen Ali Al-Hamzi</i>				
11	Date and Number of Approval by Council:	2025				

II. Course Description:

This course is an introduction to the science and art of fixed prosthodontics, that teaches the students the basic concepts of fixed prosthodontics and its application, correlating it to a pre-requisites subject, training the students how to use and select the instruments correctly in preparing teeth for different types of tooth preparation (Full veneer and partial veneer restorations) by using phantom head lab and mimicking the different circumstances in the dental clinics and basic fixed prosthodontics laboratory procedures in the dental lab.

III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs		
A. Knowledge and Understanding:		I, P or M/A		
a1	Explain the scientific basic principles and practical procedures of the Fixed Prosthodontics and the teeth preparations of different types of crown restorations, and construction (crown-bridgework)	I, P	A1	Describe the scientific basis of dentistry and the relevant biomedical and behavioral sciences which form the basis for understanding human growth, development and health.
a2	Identify the clinical, laboratory and specific investigatory procedures practiced in Fixed Prosthodontics	I, P	A4	Describe the different clinical, laboratory and special investigatory procedures practiced in dentistry.
			A3	
B. Intellectual Skills:				
b1	Justify simple prosthesis from the design, and treatment plans, tooth preparation, laboratory procedures and demonstrate problem-solving skills to find solutions for unanticipated problems.	I, P	B3	Prioritize patient's treatment needs and formulate an appropriate treatment plan.
b2	Compare between materials, instrument and techniques and processes involved in the preparation and construction of different types of dental crowns and bridges work.	I, P	B6	Select suitable dental materials, and prescribe medicaments to be used in a specific clinical situation.
C. Professional and Practical Skills:				
c1	Apply infection control according to international standards in the fixed prosthodontics' phantom lab that will be applied in the next year for the patients.	I, P	C3	Use infection control protocol and radiation protection regulation according to international standards.

c2	Apply comprehensive fixed prosthodontics in the pre-clinical practices. (Tooth preparation of different types of restorations).	I, P	C6	Ability to assess the risk of medical emergencies and be competent in their management within the dental practice setup.
			C3	
D. Transferable Skills:				
d1	Commit to continuous education, self-development and lifelong learning to remain updated with advances in the Fixed prosthodontics practice	I, P	D1	Commit to continuous education, self-development and lifelong learning to remain updated with advances in dental practice
d2	Communicate effectively with the supervisor and colleagues and other team member in phantom and Fixed Prosthodontics labs.	I, P	D7	Respect the different cultural beliefs, ethics, personalities, privacy and values for patients and community with a good behavior and follow the institutional and national roles of medical practice.
I= Introduced, P=Practiced or M/A= Mastered/Advanced				

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1	<ul style="list-style-type: none"> ▪ Interactive lectures ▪ Discussion ▪ Self-learning 	<ul style="list-style-type: none"> ▪ Written exam (mid and final terms and quizzes), ▪ Final oral exam ▪ Homework
a2	<ul style="list-style-type: none"> ▪ Interactive lectures ▪ Discussion ▪ Self-learning ▪ 	<ul style="list-style-type: none"> ▪ Written exam (mid and final terms and quizzes), ▪ Final oral exam ▪ Homework

(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
b1	Justify simple prosthesis from the design, and treatment plans, tooth preparation, laboratory procedures and demonstrate problem-solving skills to find solutions for unanticipated problems.	<ul style="list-style-type: none"> ▪ Interactive lectures ▪ Self-learning ▪ Problem Based Learning (PBL) ▪ Training 	<ul style="list-style-type: none"> -Written Exam -Final Oral Exam -Final Clinical Exam ▪ -Final Practical Exam
b2	Compare between materials, instrument and techniques and processes involved in the preparation and construction of different types of dental crowns and bridges work.	<ul style="list-style-type: none"> ▪ Interactive lectures ▪ Self-learning ▪ Problem Based Learning (PBL) ▪ Training 	<ul style="list-style-type: none"> -Written Exam -Final Oral Exam -Final Practical Exam
(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
c1	Apply infection control according to international standards in the fixed prosthodontics' phantom lab that will be applied in the next year for the patients.	<ul style="list-style-type: none"> -Practical session . -Training -Case Study (CBL) - PBL 	<ul style="list-style-type: none"> -Final Clinical Exam - Final Practical Exam - OSCE -OSPE
c2	Apply comprehensive fixed prosthodontics in the pre-clinical practices. (Tooth preparation of different types of restorations).	<ul style="list-style-type: none"> -Practical session . -Training -Case Study (CBL) - PBL 	<ul style="list-style-type: none"> -Final Clinical Exam - Final Practical Exam - OSCE -OSPE
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	

d1	Commit to continuous education, self-development and lifelong learning to remain updated with advances in the Fixed prosthodontics practice	- Seminars - Discussion - Case Study (CBL) - Self Learning - Presentation - PBL	- Homework - Research - Oral Discussion
d2	Communicate effectively with the supervisor and colleagues and other team member in phantom and Fixed Prosthodontics labs.	- Seminars - Discussion - Case Study (CBL) - Self Learning - Presentation	- Homework - Research - Oral Discussion

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction to Course Definitions and terminology of crown	- Definitions - Extra-coronal restoration, Intra-coronal restoration, Intra-radicular restoration - Anatomical crown, Clinical crown, Artificial crown. - Full veneer crowns, Partial veneer crowns, Laminate veneer. -	1	2	a.1, a.2
2	Definitions and terminology of Bridge	Definitions - Component of FPD, Abutment, connector, pontic, retainer. - Saddle, Span, Pier, Unit	1	2	a.1, a.2
3	Purposes and indications of crowns.	- Purposes of Crown Construction, - Tooth Preparation: What, Why and When?	1	2	a.1, a.2, b.1, b.2
4	Principles of Tooth Preparation.	1- Preservation of tooth structure. 2- Retention and Resistance form, and Path of Insertion 3- Structure durability. 4- Marginal integrity, and the Types of Finishing Line. 5-Preservation of Periodontium. - 6- Instrumentation and types of Burs.	1	2	a.1, a.2, b.1, b.2, c.2,

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
5	Full crown preparation for cast restoration.	– Indication, contraindications, advantages ,steps of preparations	1	2	a1, a2,b1 b2, c1, c2, d.1, d2
6	Introduction to PFM Crowns and Steps of preparation.	- Indication, contraindications, advantages ,steps of preparations	1	2	a1, a2,b1 b2, c1, c2, d.1, d2
7	Introduction to all ceramic crowns and Steps of preparation.	– Indication, contraindications, advantages ,steps of preparations	1	2	a1, a2,b1 b2, c1, c2, d.1, d2
8	Midterm Exam	–	1	2	a1, a2,b1 b2, c1, c2, d.1, d2
9	Introduction to partial veneer crowns	Classification, ¾ crown. 7/8 crown ½ crown. Reverse ¾ crown. – - Indications, contra-indications, advantages, disadvantages,	1	2	a1, a2,b1 b2, c1, c2, d.1, d2
10	Partial veneer crown Steps of preparation	– Steps of preparation of posterior and anterior teeth of the different types of partial veneer crowns	1	2	a1, a2,b1 b2, c1, c2, d.1, d2
11	Introduction to Tissue management	Retraction cord, types and techniques, – -soft tissue management and electro-surgery and new techniques.	1	2	a1, a2,b1 b2, c1, c2, d.1, d2
12	-Impression of fixed restoration Impression materials	– Classification Elastic and non-elastic Impression Materials, Elastomeric impression material, Polysulfide Rubber Base., Condensation Silicone, Additional Silicone. Polyether, Digital impression.	1	2	a1, a2,b1 b2,
13	- Impression techniques	– Techniques of Impression Making, Stock impression Tray, Custom Impression Tray, “Impression	1	2	a1, a2,b1 b2, c1, c2, d.2

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		Making” of Elastomeric Materials, Manual mixing - Auto Mixer, Evaluate the impression.			
14	Cooperative Learning	– The Clinical Procedures of Fixed Prosthodontics.	1	2	a1, a2,b1 b2, c1, c2, d.1, d.2
15	Cooperative Learning	– The Clinical Procedures of Fixed Prosthodontics and the Final Review.	1	2	a1, a2,b1 b2, c1, c2, d.1, d.2
16	Final Theoretical Exam	...	1	2	a1, a2,b1 b2, c1, c2, d.1, d.2
Number of Weeks /and Units Per Semester			16	32	

B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	-Introduction on the lab work, phantom heads and teeth manikins. -Demonstration about the rotary instrument and how to cut geometrical cavities.	1	2	a1, b1,c1,c2, d1
2	Taking Primary impression	1	2	a1, a2,b1,b2, c1,d1
3	- Preparation of lower first molar to receive full metal crown (demo)	1	2	a2, b2,c2, d1
4	- - Preparation of upper first molar to receive full metal crown (demo)	1	2	a2, b2, c1
5	- Preparation of upper & lower first molar to receive full metal crown (evaluation)	1	2	a2, b2,c2, d1
6	- Mid-term exam	1	2	a1,a2, b1,b2,c1, c2, d1, d2

University:

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
7	- - Preparation of lower first molar to receive pfm crown	1	2	a1,a2, b1,b2,c1
8	- -Preparation of upper first molar to receive pfm crown	1	2	a1,a2, b2,c1,c2, d1
9	-Preparation of upper first premolar to receive pfm crown	1	2	a1,a2,b1,b2, c1,d1
10	- - Preparation of lower first premolar to receive pfm crown	1	2	a2, b2,c2, d1
11	- Preparation of molars & premolar to receive pfm crown (evaluation)	1	2	a2, b2,c2, d1
12	- -Preparation of lower first molar to receive all ceramic crown	1	2	a2, b2, c1
13	- -Preparation of upper first premolar to receive all ceramic crown	1	2	a1,a2, b1,b2,c1
14	- -Final Exam	1	2	a1,a2, b1,b2,c1, c2, d1, d2
Number of Weeks /and Units Per Semester		14	28	

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	-Technical/Practical reports -Full Metal Crown Preparation -Metal-Ceramic Crown Preparation -All Ceramic Crown Preparation.	All Weeks	5	a1, b1,c1,c2, d1
2	-Presentations -Terminology of Fixed Prosthodontics -Hand and Rotary Instruments Used in Crown and Bridge Prosthodontics -Basic Principles of Teeth Preparation In Fixed Prosthodontics -Patient And Dentist Position During Different Fixed Prosthesis Preparation	All Weeks	5	a1,a2,b1,b2, c1,d1

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
3	Assignment 3:			

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	1-12	10	10 %	a1, a2, c1, d2
2	Quizzes 1 & 2	6, 10	5	5 %	a.1, a.2, b.1, b.2, d.1, d.2
3	Mid-Term Theoretical Exam	8	15	15 %	a.1, a.2, b.1, b.2, d.1, d.2
4	Mid-Term Practical Exam	7	10	10 %	b.1, b.2, c.1, c.2, d.1, d.2
5	Final Practical Exam including Project Presentation & Evaluation	14	20	20 %	b.1, b.2, c.1, c.2, d.1, d.2
6	Final Theoretical Exam	16	40	40 %	a.1, a.2, b.1, b.2, d.1, d.2
Total			100	100 %	

IX. Learning Resources:

- *Written in the following order:* Author, Year of publication, Title, Edition, Place of publication, Publisher.

1- Required Textbook(s) (maximum two):

- 1- Stephen F. Rosenstiel , Martin F. Land., 2015,: Contemporary of fixed prosthodontics. last edition, MOSBY Inc,
- 2- Shillingburg, H.T., Hobo, S., Whitsett, L.D.: Fundamentals of Fixed Prosthodontics, last edition. Quintessence Pub. Co.

2- Essential References

- 3- V Rangarajan (Author), T V Padmanabhan,2017: " Textbook of Prosthodontics ", 2nd edition Elsevier India.
- 4- David W. Bartlet. ,2003,:Clinical Problem Solving in Prosthodontics 1 edition Churchill Livingstone.
- 5- Vijay Prakash , Ruchi Gupta ,2017:Concise Prosthodontics- E Book: Prep Manual for Undergraduates 2nd Edition, Elsevier India.

3- Electronic Materials and Web Sites etc.:

Websites:

- <http://www.journalofprosthodonticdentistry>
- <http://www.internationaljournalofprosthodonticdentistry>
- <http://www.journalofadvancedprosthodontic> .

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation:

	Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

Faculty of Dentistry

Department of Prosthodontics

Program of Bachelor of Dental Surgery (B.D.S)

Course Plan (Syllabus) of **Pre-Clinical Fixed Prosthodontics - 1**

Course Code. 09.12.928

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:		Office Hours					
Location & Telephone No.:	-----						
E-mail:	--@--.--	SAT	SUN	MON	TUE	WED	THU

2024/2025

II. Course Identification and General Information:

	Course Title:	Pre-Clinical Fixed Prosthodontics – 1			
	Course Code:	09.12.928			
	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours
			Lecture	Tutorial/Seminar	Lab
		3	2	--	2
	Level/ Semester at which this Course is offered:	3rd Level / 1st Semester			
	Pre –Requisite (if any):	Dental Anatomy and Dental Materials.			
	Co –Requisite (if any):	-----			
	Program (s) in which the Course is Offered:	Bachelor of Dental Surgery (B.D.S)			
	Language of Teaching the Course:	English			
	Location of Teaching the Course:	Faculty of Dentistry			
	Prepared by:	Associate <i>Prof. Mohsen Ali Al-Hamzi</i>			
11	Date and Number of Approval by Council:	2025			

III. Course Description:

This course is an introduction to the science and art of fixed prosthodontics, that teaches the students the basic concepts of fixed prosthodontics and its application, correlating it to a pre-requisites subject, training the students how to use and select the instruments correctly in preparing teeth for different types of tooth preparation (Full veneer and partial veneer

restorations) by using phantom head lab and mimicking the different circumstances in the dental clinics and basic fixed prosthodontics laboratory procedures in the dental lab.

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

	A. Knowledge and Understanding:
a1	Explain the scientific basic principles and practical procedures of the Fixed Prosthodontics and the teeth preparations of different types of crown restorations, and construction (crown-bridgework)
a2	Identify the clinical, laboratory and specific investigatory procedures practiced in Fixed Prosthodontics
	B. Intellectual Skills:
b1	Justify simple prosthesis from the design, and treatment plans, tooth preparation, laboratory procedures and demonstrate problem-solving skills to find solutions for unanticipated problems.
b2	Compare between materials, instrument and techniques and processes involved in the preparation and construction of different types of dental crowns and bridges work.
	C. Professional and Practical Skills:
c1	Apply infection control according to international standards in the fixed prosthodontics' phantom lab that will be applied in the next year for the patients.
c2	Apply comprehensive fixed prosthodontics in the pre-clinical practices. (Tooth preparation of different types of restorations).
	D. Transferable Skills:
d1	Commit to continuous education, self-development and lifelong learning to remain updated with advances in the Fixed prosthodontics practice
d2	Communicate effectively with the supervisor and colleagues and other team member in phantom and Fixed Prosthodontics labs.

I= Introduced, P=Practiced or M/A= Mastered/Advanced

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction to Course Definitions and terminology of crown	- Definitions - Extra-coronal restoration, Intra-coronal restoration, Intra-radicular restoration - Anatomical crown, Clinical crown, Artificial crown. - Full veneer crowns, Partial veneer crowns, Laminate veneer. -	1	2
2	Definitions and terminology of Bridge	Definitions - Component of FPD, Abutment, connector, pontic, retainer. - Saddle, Span, Pier, Unit	1	2
3	Purposes and indications of crowns.	- Purposes of Crown Construction, - Tooth Preparation: What, Why and When?	1	2
4	Principles of Tooth Preparation.	1- Preservation of tooth structure. 2- Retention and Resistance form, and Path of Insertion 3- Structure durability. 4- Marginal integrity, and the Types of Finishing Line. 5-Preservation of Periodontium. - 6- Instrumentation and types of Burs.	1	2
5	Full crown preparation for cast restoration.	- Indication, contraindications, advantages ,steps of preparations	1	2
6	Introduction to PFM Crowns and Steps of preparation.	- Indication, contraindications, advantages ,steps of preparations	1	2

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
7	Introduction to all ceramic crowns and Steps of preparation.	– Indication, contraindications, advantages ,steps of preparations	1	2
8	Midterm Exam	–	1	2
9	Introduction to partial veneer crowns	Classification, ¾ crown. 7/8 crown ½ crown. Reverse ¾ crown. – - Indications, contra-indications, advantages, disadvantages,	1	2
10	Partial veneer crown Steps of preparation	– Steps of preparation of posterior and anterior teeth of the different types of partial veneer crowns	1	2
11	Introduction to Tissue management	Retraction cord, types and techniques, – -soft tissue management and electro-surgery and new techniques.	1	2
12	-Impression of fixed restoration Impression materials	– Classification Elastic and non-elastic Impression Materials, Elastomeric impression material, Polysulfide Rubber Base., Condensation Silicone, Additional Silicone. Polyether, Digital impression.	1	2
13	- Impression techniques	– Techniques of Impression Making, Stock impression Tray, Custom Impression Tray, “Impression Making” of Elastomeric Materials, Manual mixing - Auto Mixer, Evaluate the impression.	1	2
14	Cooperative Learning	– The Clinical Procedures of Fixed Prosthodontics.	1	2
15	Cooperative Learning	– The Clinical Procedures of Fixed Prosthodontics and the Final Review.	1	2

University:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
16	Final Theoretical Exam	...	1	2
Number of Weeks /and Units Per Semester			16	32

B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	-Introduction on the lab work, phantom heads and teeth manikins. -Demonstration about the rotary instrument and how to cut geometrical cavities.	1	2	a1, b1,c1,c2, d1
2	Taking Primary impression	1	2	a1,a2,b1,b2, c1,d1
3	- Preparation of lower first molar to receive full metal crown (demo)	1	2	a2, b2,c2, d1
4	- - Preparation of upper first molar to receive full metal crown (demo)	1	2	a2, b2, c1
5	- Preparation of upper&lower first molar to receive full metal crown (evaluation)	1	2	a2, b2,c2, d1
6	- Mid term exam	1	2	a1,a2, b1,b2,c1, c2, d1, d2
7	- - Preparation of lower first molar to receive pfm crown	1	2	a1,a2, b1,b2,c1
8	- -Preparation of upper first molar to receive pfm crown	1	2	a1,a2, b2,c1,c2, d1
9	-Preparation of upper first premolar to receive pfm crown	1	2	a1,a2,b1,b2, c1,d1

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
10	- - Preparation of lower first premolar to receive pfm crown	1	2	a2, b2,c2, d1
11	- Preparation of molars & premolar to receive pfm crown (evaluation)	1	2	a2, b2,c2, d1
12	- -Preparation of lower first molar to receive all ceramic crown	1	2	a2, b2, c1
13	- -Preparation of upper first premolar to receive all ceramic crown	1	2	a1,a2, b1,b2,c1
14	- -Final Exam	1	2	a1,a2, b1,b2,c1, c2, d1, d2
Number of Weeks /and Units Per Semester		14	28	

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VI. Teaching Strategies of the Course:

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VII. Assessment Methods of the Course:

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VIII. Assignments:

No.	Assignments	Week Due	Mark
1	-Technical/Practical reports -Full Metal Crown Preparation -Metal-Ceramic Crown Preparation -All Ceramic Crown Preparation.	All Weeks	5
2	-Presentations -Terminology of Fixed Prosthodontics -Hand and Rotary Instruments Used in Crown and Bridge Prosthodontics -Basic Principles of Teeth Preparation In Fixed Prosthodontics -Patient And Dentist Position During Different Fixed Prosthesis Preparation	All Weeks	5
3	Assignment 3:		

IX. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	1-12	10	10 %
2	Quizzes 1 & 2	6, 10	5	5 %
3	Mid-Term Theoretical Exam	8	15	15 %
4	Mid-Term Practical Exam	7	10	10 %
5	Final Practical Exam including Project Presentation & Evaluation	14	20	20 %
6	Final Theoretical Exam	16	40	40 %
Total			100	100 %

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	1-12	10	10 %
2	Quizzes 1 & 2	6, 10	5	5 %
3	Mid-Term Theoretical Exam	8	15	15 %
4	Mid-Term Practical Exam	7	10	10 %

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
5	Final Practical Exam including Project Presentation & Evaluation	14	20	20 %
6	Final Theoretical Exam	16	40	40 %
Total			100	100 %

X. Learning Resources:

- *Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.*

1- Required Textbook(s) (maximum two):

- 6- Stephen F. Rosenstiel , Martin F. Land., 2015,: Contemporary of fixed prosthodontics. last edition, MOSBY Inc,
Shillingburg, H.T., Hobo, S., Whitsett, L.D.: Fundamentals of Fixed Prosthodontics, last edition. Quintessence Pub. Co.

2- Essential References

- 7- V Rangarajan (Author), T V Padmanabhan,2017: " Textbook of Prosthodontics ", 2nd edition Elsevier India.
8- David W. Bartlet. ,2003,:Clinical Problem Solving in Prosthodontics 1 edition Churchill Livingstone.
9- Vijay Prakash , Ruchi Gupta ,2017:Concise Prosthodontics- E Book: Prep Manual for Undergraduates 2nd Edition, Elsevier India.

3- Electronic Materials and Web Sites etc.:

Websites:

- <http://www.journalofprosthodonticdentistry>
 - <http://www.internationaljournalofprosthodonticdentistry>
- <http://www.journalofadvancedprosthodontic> .

XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.