

Republic of Yemen

Ministry of Higher Education & Scientific Research

Emirates International University



Faculty of Dentistry

Department of Conservative Dentistry

Doctor of Dental Surgery (DDS)

Course Specification of

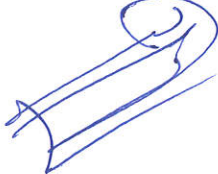
Fixed Prosthodontics II (Pre-Clinical)

Course No. (.....)



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Review committee:



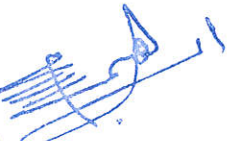
Head of the Department



Quality Assurance head



Dean of Faculty



I. Course Identification and General Information:

1	Course Title:	Fixed Prosthodontics II (Pre-Clinical)			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	--	2
4	Study Level/ Semester at which this Course is offered:	3 ^{dr} Level / 2 nd Semester			
5	Pre –Requisite (if any):	Fixed Prosthodontics I (Pre-Clinical)			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Assistant professor Mohammed A. AlBaili			

II. Course Description:

It is a continuation of the previous courses. It aims to provide the student with the concepts and skills related to the stage of guidance and discipline in the science of fixed restoration, which deal with Provisional restoration, pouring impression, working cast and dies, Wax Pattern, Investment materials and metal casting alloys, Investing, burn-out and casting, Preliminary finishing and Try – in the Final Restoration, Final finishing and polishing and luting materials, Final Cementation, Diagnosis, Treatment planning, Selection of Abutment Teeth and Special problems of fixed prosthodontics.

III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program	
A. Knowledge and Understanding:		I, A or E	
a1	Provide the student with the concepts and skills related to the stage of guidance and discipline in the science of fixed restoration and practical of the Fixed Prosthodontics,		A1
a2	Demonstrate the importance and types of provisional restorations, and their applications and manipulations and the concepts related to the clinical and laboratory procedures of Fixed Prosthodontics		A2
a3	Describe the broader issues of dental practice, including ethics and medico-legal considerations of Fixed Prosthodontics preparation and constructions.		A3
B. Intellectual Skills:			
b1	Diagnose and analyze the clinical problems of the oral cavity and paraoral structures and create a proper treatment plan of Fixed Prosthodontics preparation and constructions.		B1
b2	Compare the properties of various dental materials and their clinical and laboratory applications in FPs preparation and constructions with talking awareness and strive to provide the highest possible quality of patient care at all times.		B2
b3	Collect and integrate information from number of resources to gain a coherent understanding of theory and practice and		B3

	interpret the evidence to understand practice of clinical that related to Fixed Prosthodontics.		
C. Professional and Practical Skills:			
c1	Practice the practical and clinical skills in phantom lab and crown and bridge lab, working safely environment that reflect skilled competent, safe, evaluative clinical dentistry practice.		C1
c2	Demonstrate the ability to deal and manipulate dental biomaterials properly that related to Fixed Prosthodontics preparation and constructions.		C2
c3	Apply correct judgments and skills that lead to correct infection control, diagnosis and treatment of art and science of Fixed Prosthodontics.		C3
D. Transferable Skills:			
d1	Communicate effectively with a wide range of individuals using a variety of means and work effectively as individual or as a team member in phantom lab and crown and bridge lab.		D1
d2	Manage time, priorities, workload and manage personal emotions and stress, do self-evaluation within academic, professional, clinical and practical performance and determine career opportunities and challenges and suggest proper solutions, during the clinical and laboratory procedures of Fixed Prosthodontics construction in phantom lab and crown and bridge		D3
d3	Manage changes effectively and responds to changing demands, take responsibility for personal and professional learning and development and solve the problems		D4

	facing him in his daily life effectively, during the clinical and laboratory procedures of Fixed Prosthodontics construction in phantom lab and crown and bridge		
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(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	Show the knowledge and understanding of the basic principles for the theory and practical of the Fixed Prosthodontics, includes the principles of teeth preparation and the teeth preparations of different types of crown restorations.	Lecture Discussion	Quizzes Midterm Exam Final Exam
a2	Demonstrate the dental material sciences, and their applications and manipulations and the concepts related to the clinical and laboratory procedures of Fixed Prosthodontics preparation constructions	Lecture Discussion	Quizzes Midterm Exam Final Exam
a3	Describe the broader issues of dental practice, including ethics and medico-legal considerations of Fixed Prosthodontics preparation and constructions.	Lecture Discussion	Quizzes Midterm Exam Final Exam
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
b1	Diagnose and analyze the clinical problems of the oral cavity and paraoral structures and create a proper treatment plan of Fixed Prosthodontics	Lectures Self-learning Training	Quizzes Midterm Exam Final Exam



	preparation and constructions.	Discussion Brainstorming	Practical exam
b2	Compare the properties of various dental materials and their clinical and laboratory applications in Fixed Prosthodontics preparation and constructions with talking awareness and strive to provide the highest possible quality of patient care at all times.	Lectures Self-learning Training Discussion Brainstorming	Quizzes Midterm Exam Final Exam Practical exam
b3	Collect and integrate information from number of resources to gain a coherent understanding of theory and practice and interpret the evidence to understand practice of clinical that related to Fixed Prosthodontics.	Lectures Self-learning Training Discussion Brainstorming	Quizzes Midterm Exam Final Exam 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	Practice the practical and clinical skills in phantom lab and crown and bridge lab, working safely environment that reflect skilled competent, safe, evaluative clinical dentistry practice.	Training Discussion	Practical Exam Observation
c2	Apply correct judgments and skills that lead to correct diagnosis and treatment of art and science of Fixed Prosthodontics.	Training Discussion	Practical Exam Observation
c3	Demonstrate the ability to deal and manipulate dental biomaterials properly that related to Fixed Prosthodontics preparation and constructions.	Training Discussion	Practical Exam Observation

(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:		
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1 Communicate effectively with a wide range of individuals using a variety of means and work effectively as individual or as a team member in phantom lab and crown and bridge lab.	Discussion Seminars Self-learning.	Observation Practical Exam Semester Work
d2 Manage time, priorities, workload and manage personal emotions and stress, do self-evaluation within academic, professional, clinical and practical performance and determine career opportunities and challenges and suggest proper solutions, during the clinical and laboratory procedures of Fixed Prosthodontics constriction in phantom lab and crown and bridge lab	Discussion Seminars Self-learning.	Observation Practical Exam Semester Work
d3 Manage changes effectively and responds to changing demands, take responsibility for personal and professional learning and development and solve the problems facing him in his daily life effectively, during the clinical and laboratory procedures of Fixed Prosthodontics constriction in phantom lab and crown and bridge lab	Discussion Seminars Self-learning.	Observation Practical Exam Semester Work

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Provisional or temporary restoration	<ul style="list-style-type: none"> - Requirements, Importance and Types of Provisional restorations. - Prefabricated forms - Custom Provisional Restoration - Techniques for custom provisional restorations - Over impression – Fabricated Provisional - Crown Template - Fabricated Provisional Fixed Partial Denture. - Heat-polymerized Resin for FPD. 	2	4	a1, a2, b2, b3
2	Pouring impression, Working cast and dies	<ul style="list-style-type: none"> - Pouring materials and pouring impression - Requirements of Working Cast and Die - Working cast with a separate and removable die - Requirement of removable die - Ditching, 	1	2	a2, a3, b1
3	Wax Pattern	<ul style="list-style-type: none"> - The indirect technique - The direct technique - Requirements of inlay wax pattern fabrication - Waxing Procedures - Coping Fabrication - Axial Contour - Occlusal Morphology - Marginal Finishing 	1	2	a2, a3, b3

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
4	Investment materials and metal casting alloys, Investing, burn-out and casting.	<ul style="list-style-type: none"> - Dental casting alloys Sprue Former Attachment (Spruing) - Investing the wax pattern - Shrinkage compensation - Investing procedure - Burnout (wax elimination) - Casting □ Finishing of metal restoration 	1	2	a1,a2, a3,b3
5	Preliminary finishing and Try – in the Final Restoration	<ul style="list-style-type: none"> - Evaluation of the restoration, Internal surfaces - Proximal contacts - Margins - completeness of seating - Stability - Occlusion - Contours □ Esthetics. 	1	2	a1,a2, a3,b3
6	Midterm Exam	MCQs and essay questions	1	2	a1,a2, a3,b1,b2, b3
7	Final finishing and polishing and luting materials	<ul style="list-style-type: none"> - Types of dental cement - Zinc phosphate cement - Zinc polycarboxylate cement - Zinc oxide-eugenol - Glass ionomer cement - Silicophosphate cement - Resin luting agents. 	2	4	a2, a3,b3
8	Final Cementation	<ul style="list-style-type: none"> - Choice of Cement - Step –by –step procedure of cementation - Fallow - up. 	1	2	a2, a3,b3
9	Diagnosis	<ul style="list-style-type: none"> - History: - - Medical history: - -Intraoral Examination - - Occlusal/ TMJ Evaluation. - - Diagnostic Casts. - -Full Mouth Radiograph: 	2	4	a1,a3, a4 b2
10	Treatment	<ul style="list-style-type: none"> - Removable Partial Denture (1	2	a1, b1

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	planning.	RPD) – Fixed Partial Denture (FPD) – Implant-supported Fixed Partial Denture.			
11	Selection of Abutment Teeth	– Factors Affecting the Selection of Abutment Teeth – Local Factors : – Amount of Existing Caries, and Condition of the Pulp: – The Roots and Supporting Tissues. Crown-root ratio. – Root configuration. – Periodontal ligament area. Span length	1	2	a1, b1
12	Special problems	– Replacing multiple anterior teeth. The four mandibular incisors – The loss of maxillary incisors: – Pier Abutments, – Tilted Molar Abutments., – Canine replacement FPD – Cantilever Bridge or Fixed Partial Denture:	1	2	a1, b1
13	Final Exam	MCQs and essay questions	1	2	a1,a2, a3,b1,b2, b3
Number of Weeks /and Units Per Semester			16	32	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	laboratory preparation of upper central incisor	Week 2,3	4	b1, c1, c2, c3, d2

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
2	laboratory preparation of upper lateral incisor	Week 3, 4,5	6	b1, c1, c2, d2
3	laboratory preparation of upper canine	Week 6,8	6	b1, c1, c2, d2, d3
4	laboratory preparation of lower central incisor	Week 10,11	4	b1, b3 c1, c2,d1,d2
5	laboratory preparation of lower lateral incisor	Week 12	2	b1, b3 c1, c2,d1, d2
6	laboratory preparation of lower canine	Week 13,14	4	b1, b3 c1, c2, c3, d1,d2, d3
7	Practical exam	Week 15	2	b1, b3 c1, c2, c3, d1,d2, d3
Number of Weeks /and Units Per Semester		13	26	

V. Teaching Strategies of the Course:

- Lectures
- Discussions
- Brainstorming
- Training
- Seminars
- Self-learning.

VI. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Observation
- Semester Work

VII. Assignments:				
No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Practical Requirements	3 rd to 14 th	10	b1, b3 c1, c2, c3, d1,d2, d3
Total			10	

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	3 rd to 14 th	10	10%	a1, a2, a3, b1, b2
2	Quizzes	6 th	10	10%	a1, a2, a3, b1, b2
3	Midterm Exam	7 th	20	20%	a1,a2, a3,b1,b2, b3
4	Practical Exam	15 th	20	20%	b1, b3 c1, c2, c3, d1,d2, d3
5	Final Exam	16 th	40	40%	a1,a2, a3,b1,b2, b3
Total			100	100%	

IX. Learning Resources:
1- Required Textbook(s) (maximum two):
1- Shillingburg,H,T,etal, :Fundamentals of Fixed Prosthodontics, 4th Edition. Quintessence.
2- Rosenstiel, S.E.Land.M.F.,:Contemporary Fixed Prosthodontics- Fujimoto Fourth Edition.
2- Essential References:
1 - Shillingburg.H.T.atel, : Fundamental of Tooth Preparation for Cast Metal and Porcelain.
2 - Smith et al.: Planning and Making Crown and Bridges 4th Edition.

3- Electronic Materials and Web Sites etc.:

- 1- http://www.bsspd.org/For*patients/fixed*prosthodontics.aspx
- 2- <http://www.epadental.org/patients/fixed-prosthodontics>

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 Conservative Dentistry
Program of Doctor of Dental Surgery (DDS)

Course Plan (Syllabus) of
Fixed Prosthodontics II (Pre-Clinical)
Course No. (.....)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:	Mohammed AbdulAziz AlBaili	Office Hours					
Location & Telephone No.:	777606666						
E-mail:	albailimohmd@gmail.com	SAT	SUN	MON	TUE	WED	THU



II. Course Identification and General Information:

1	Course Title:	Fixed Prosthodontics II (Pre-Clinical)			
2	Course Code & Number:	----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		3	2	--	2
4	Study Level/ Semester at which this Course is offered:	3 ^{dr} Level / 2 nd Semester			
5	Pre –Requisite (if any):	Fixed Prosthodontics I (Pre-Clinical)			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Assistant professor Mohammed A. AlBaili			

III. Course Description:

It is a continuation of the previous courses. It aims to provide the student with the concepts and skills related to the stage of guidance and discipline in the science of fixed restoration, which deal with Provisional restoration, pouring impression, working cast and dies, Wax Pattern, Investment materials and metal casting alloys, Investing, burn-out and casting, Preliminary finishing and Try – in the Final Restoration, Final finishing and polishing and luting materials, Final Cementation, Diagnosis, Treatment planning, Selection of Abutment Teeth and Special problems of fixed prosthodontics.

IV. Course Intended Learning Outcomes (CILOs) :

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

A. Knowledge and Understanding:	
a1	Provide the student with the concepts and skills related to the stage of guidance and discipline in the science of fixed restoration and practical of the Fixed Prosthodontics,
a2	Demonstrate the importance and types of provisional restorations, and their applications and manipulations and the concepts related to the clinical and laboratory procedures of Fixed Prosthodontics
a3	Describe the broader issues of dental practice, including ethics and medico-legal considerations of Fixed Prosthodontics preparation and constructions.
B. Intellectual Skills:	
b1	Diagnose and analyze the clinical problems of the oral cavity and paraoral structures and create a proper treatment plan of Fixed Prosthodontics preparation and constructions.
b2	Compare the properties of various dental materials and their clinical and laboratory applications in FPs preparation and constructions with talking awareness and strive to provide the highest possible quality of patient care at all times.
b3	Collect and integrate information from number of resources to gain a coherent understanding of theory and practice and interpret the evidence to understand practice of clinical that related to Fixed Prosthodontics.
C. Professional and Practical Skills:	
c1	Practice the practical and clinical skills in phantom lab and crown and bridge lab, working safely environment that reflect skilled competent, safe, evaluative clinical dentistry practice.
c2	Demonstrate the ability to deal and manipulate dental biomaterials properly that related to Fixed Prosthodontics preparation and constructions.
c3	Apply correct judgments and skills that lead to correct infection control, diagnosis and treatment of art and science of Fixed Prosthodontics.
D. Transferable Skills:	
d1	Communicate effectively with a wide range of individuals using a variety of means and work effectively as individual or as a team member in phantom lab and crown and bridge lab.
d2	Manage time, priorities, workload and manage personal emotions and stress, do self-evaluation within academic, professional, clinical and practical performance and determine career opportunities and challenges and suggest proper solutions, during the clinical and

	laboratory procedures of Fixed Prosthodontics construction in phantom lab and crown and bridge
d3	Manage changes effectively and responds to changing demands, take responsibility for personal and professional learning and development and solve the problems facing him in his daily life effectively, during the clinical and laboratory procedures of Fixed Prosthodontics construction in phantom lab and crown and bridge

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Provisional or temporary restoration	<ul style="list-style-type: none"> - Requirements, Importance and Types of Provisional restorations. - Prefabricated forms - Custom Provisional Restoration - Techniques for custom provisional restorations - Over impression – Fabricated Provisional - Crown Template - Fabricated Provisional Fixed Partial Denture. - Heat-polymerized Resin for FPD. 	2	4
2	Pouring impression, Working cast and dies	<ul style="list-style-type: none"> - Pouring materials and pouring impression - Requirements of Working Cast and Die - Working cast with a separate and removable die - Requirement of removable die - Ditching, 	1	2
3	Wax Pattern	<ul style="list-style-type: none"> - The indirect technique - The direct technique - Requirements of inlay wax pattern fabrication - Waxing Procedures 	1	2

V. Course Contents:				
A. Theoretical Aspect:				
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		<ul style="list-style-type: none"> - Coping Fabrication - Axial Contour - Occlusal Morphology - Marginal Finishing 		
4	Investment materials and metal casting alloys, Investing, burn-out and casting.	<ul style="list-style-type: none"> - Dental casting alloys Sprue Former Attachment (Spruing) - Investing the wax pattern - Shrinkage compensation - Investing procedure - Burnout (wax elimination) - Casting □ Finishing of metal restoration 	1	2
5	Preliminary finishing and Try – in the Final Restoration	<ul style="list-style-type: none"> - Evaluation of the restoration, Internal surfaces - Proximal contacts - Margins - completeness of seating - Stability - Occlusion - Contours □ Esthetics. 	1	2
6	Midterm Exam	MCQs and essay questions	1	2
7	Final finishing and polishing and luting materials	<ul style="list-style-type: none"> - Types of dental cement - Zinc phosphate cement - Zinc polycarboxylate cement - Zinc oxide-eugenol - Glass ionomer cement - Silicophosphate cement - Resin luting agents. 	2	4
8	Final Cementation	<ul style="list-style-type: none"> - Choice of Cement - Step –by –step procedure of cementation - Fallow - up. 	1	2

V. Course Contents:				
A. Theoretical Aspect:				
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
9	Diagnosis	<ul style="list-style-type: none"> - History: - - Medical history: - -Intraoral Examination - - Occlusal/ TMJ Evaluation. - - Diagnostic Casts. - -Full Mouth Radiograph: 	2	4
10	Treatment planning.	<ul style="list-style-type: none"> - Removable Partial Denture (RPD) - Fixed Partial Denture (FPD) - Implant-supported Fixed Partial Denture. 	1	2
11	Selection of Abutment Teeth	<ul style="list-style-type: none"> - Factors Affecting the Selection of Abutment Teeth - Local Factors : - Amount of Existing Caries, and Condition of the Pulp: - The Roots and Supporting Tissues. Crown-root ratio. - Root configuration. - Periodontal ligament area. Span length 	1	2
12	Special problems	<ul style="list-style-type: none"> - Replacing multiple anterior teeth. The four mandibular incisors - The loss of maxillary incisors: - Pier Abutments, - Tilted Molar Abutments., - Canine replacement FPD - Cantilever Bridge or Fixed Partial Denture: 	1	2
13	Final Exam	MCQs and essay questions	1	2
Number of Weeks /and Units Per Semester			16	32

B. Case Studies and Practical Aspect:			
No.	Tasks/ Experiments	Week Due	Contact Hours
1	laboratory preparation of upper central incisor	Week 2,3	4
2	laboratory preparation of upper lateral incisor	Week 3, 4,5	6
3	laboratory preparation of upper canine	Week 6,8	6
4	laboratory preparation of lower central incisor	Week 10,11	4
5	laboratory preparation of lower lateral incisor	Week 12	2
6	laboratory preparation of lower canine	Week 13,14	4
7	Practical exam	Week 15	2
Number of Weeks /and Units Per Semester		13	26

VI. Teaching Strategies of the Course:

- Lectures
- Discussions
- Brainstorming
- Training
- Seminars
- Self-learning.

VII. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam

- Practical Exam
- Observation
- Semester Work

VIII. Assignments:			
No.	Assignments	Week Due	Mark
1	Practical Requirements	3rd to 14th	10
Total			10

IX. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	3 rd to 14 th	10	10%
2	Quizzes	6 th	10	10%
3	Midterm Exam	7 th	20	20%
4	Practical Exam	15 th	20	20%
5	Final Exam	16 th	40	40%
Total			100	100%

X. Learning Resources:
1- Required Textbook(s) (maximum two):
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1- <u>Shillingburg.H.T.atel</u> , : Fundamental of Tooth Preparation for Cast Metal and Porcelain 2 - Smith et al.: Planning and Making Crown and Bridges 4th Edition.

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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.