

TEMPLATE FOR COURSE 2 SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

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9. Learning Outcomes, Teaching ,Learning and Assessment Methode

<p>A- Cognitive goals . A1.the student acquires adequate knowledge of the all laboratory steps of removable partial denture . A2.the student becomes acquainted with the different types of material and devices used in the manufacture of removable partial denture A3.enhancing the students confidence to deal with all types of patients and cases A4. A5. A6 .</p>	
<p>B. The skills goals special to the course. B1. Teaching the students in details the laboratory steps for construction the chromcobalt and acrylic partial denture .</p>	
Teaching and Learning Methods	
Performing practical processure and devices in prosthodontics lab.and Use educational videos to show the laboratory steps and new materials	
Assessment methods	
Examinations Seminars and other activities Sharing in scientific festivals and conference	
<p>C. Affective and value goals C1.aquisition of knowledge about partial denture</p>	

<p>construction and design</p> <p>C2.the skill of making the right decision for the benefit of the patient and based on logical thinking</p> <p>C3</p> <p>C4.</p>
Teaching and Learning Methods
<p>-theoretical lectures as power point using data show</p> <p>-educational videos</p> <p>-guiding students to visit some scientific websites</p> <p>-Conduct experiments in prosthodontics lab</p>
Assessment methods
<p>-Theoretical examination</p> <p>-Practical examination</p> <p>-Quiz</p> <p>-Seminars</p> <p>-Oral examinations</p>

<p>D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)</p> <p>D1.Preparing the student practically in terms of applying knowledge</p> <p>D2.Thinking about solving problems</p> <p>D3.Teaching professional ethics</p> <p>D4.Develop the student's ability to learn using new methods.</p>
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10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Partial dentures•Removable partial denture (RPD)•Objectives for	Introduction to Removable Partial Dentures	Theoretical lecture using power point	short exam ,semester ,mid and final exam

		RPD construction•Causes of teeth loss•Indications of removable partial dentures•Fixed partial denture•Indications for fixed partial denture•Dental implant therapy•Contraindications for dental implant therapy•Terminology and re-finishing			
2	2	Need for classification.•Requirements of an acceptable method of classification•Removable partial dentures may be classified according to the type of support•Removable partial dentures may be classified according to the type of material•Removable partial dentures may be classified according to the type of treatment•Classification based on arch configuration•Kennedy – Applegate – Fiset classification system.•Applegate's rules governing the application of the Kennedy classification method	Classification of Partially Edentulous Arches	Theoretical lecture using power point	short exam ,semester ,mid and final exam
3	2	•The ideal requirements for successful removable partial denture•Purposes (Objective) of Surveying the Diagnostic Cast•Advantages of single path of placement (insertion)•Guiding planes•Dental surveyor•Types of dental surveyors•Parts of dental	Surveying	Theoretical lecture using power point	short exam ,semester ,mid and final exam

		surveyor (Ney type surveyor)			
4	2	Principles of surveying•Types of undercuts established by surveying•Factors that determine and affect the path of placement (insertion) and removal of the RPD•Rules of surveying	Surveying (continue)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
5	2	Main components of RPD•Major connectors•Requirements of major connectors•Guidelines for design and location of major connectors•Characteristics of major connectors	Component Parts of a Removable Partial Denture	Theoretical lecture using power point	short exam ,semester ,mid and final exam
6	2	Special Structural Requirements for Maxillary Major Connectors•Types of Maxillary Major Connector•Single palatal bar•Single palatal strap•Anterior-posterior palatal bars •Combination anterior and posterior palatal strap–type connector •Palatal plate–type connector •U-shaped palatal connector	Maxillary Major Connectors	Theoretical lecture using power point	short exam ,semester ,mid and final exam
7	2	Special structural requirements•Types of mandibular major connectors✓Lingual bar ➤Methods that may be used to determine the relative height of the floor of the mouth✓Lingual plate (linguoplate) ➤The indications for the use of linguoplate✓Double lingual bar (lingual bar with cingulum	Mandibular Major Connectors	Theoretical lecture using power point	short exam ,semester ,mid and final exam

		bar)➤Indications for use of double lingual bar✓Labial bar 4➤Indications for use of labial bar ➤Characteristics and location			
8	2	•Definition•Functions•Form & location•Basic types of minor connectors•Tissue stops•Finishing lines•Reaction of Tissue to Metallic Coverage	Minor Connectors	Theoretical lecture using power point	short exam ,semester ,mid and final exam
9	2	•The purposes of the rest in general•Occlusal Rest•Extended Occlusal Rest•Interproximal Occlusal Rest•Internal Occlusal Rests•Occlusal Rest Seat Preparation•Occlusal Rests on Amalgam Restorations•Occlusal Rest on Crowns•Lingual Rests (Cingulum Rest)•Incisal Rests and Rest Seats•Implants as a Rest	Rests and Rest Seats	Theoretical lecture using power point	short exam ,semester ,mid and final exam
10	2	•Direct retainers•Indirect retainers•The extra coronal retainer (Clasp type)•Component parts, Function, and position of clasp assembly parts•Factors affecting the magnitude of retention•The basic principles of clasp design	Retention and Removable Partial Denture Retainers	Theoretical lecture using power point	short exam ,semester ,mid and final exam
11	2	Clasps designed without movement accommodation. •Circumferential (Circle or Akers) clasp•Ring-type clasp•Embrasure (double Akers) clasp•Back action clasp•Multiple	Extra Coronal Direct Retainers (Types of clasp assemblies)	Theoretical lecture using power point	short exam ,semester ,mid and final exam

		clasps•Half-and-half Clasp•Reverse-action clasp (Hairpin) Disadvantages of circumferential clasps in summary•Clasps designed to accommodate distal extension functional movement•RPI clasp•Bar-type clasp assembly•RPA clasp; Akers clasp•Infra-bulge clasp•Combination clasp			
12	2	•Internal attachments•Precision Attachments✓Some indications for precision attachments✓Some of the contraindications for precision attachments✓The main types of precision attachments•Selection of an Attachment for a Removable Partial Denture	Intracoronaral Direct Retainers (Internal Attachments, Precision Attachments)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
13	2	•Stress breakers✓Types of stress breakers	Stress-Breakers (Stress Equalizers)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
14	2	•The main factors influencing the effectiveness of an indirect retainer•The auxiliary functions of indirect retainers•Forms of Indirect Retainers	Indirect Retainers	Theoretical lecture using power point	short exam ,semester ,mid and final exam
15	2	•Auxiliary occlusal rest•Lingual rest •Incisal rest•Canine extensions from occlusal rests•Cingulum bars (continuous bars) and linguo-plates•Modification areas•Rugae support	Indirect Retainers (continue)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
16	2	•Blockout and relief•Cast preparation•Types of blockout of master cast✓Parallel	Laboratory procedures in RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam

		blockout/Shaped blockout/Arbitrary blockout•Relieving the master cast•Purpose of relief•Sites•Tissue Stops	construction:Blockout and Relief		
17	2	•Duplicating a stone cast•Duplicating material and flask•Impression•Refractory cast	Laboratory procedures in RPD construction: Duplication and Refractory Cast Construction	Theoretical lecture using power point	short exam ,semester ,mid and final exam
18	2	•Waxing the framework•Spruing•General rules for spruing•Investing the sprued pattern•Purpose of investment•Burnout	Laboratory procedures in RPD construction: Wax Pattern	Theoretical lecture using power point	short exam ,semester ,mid and final exam
19	2	•Casting•Casting recovery•Finishing the framework•Sprue removal	Laboratory procedures in RPD construction: Casting and Finishing	Theoretical lecture using power point	short exam ,semester ,mid and final exam
20	2	The primary function of denture base•Types of denture base according to support•Types of the denture base according to materials•Advantages of metal denture base•Disadvantages of metal denture base•Design consideration of denture base•Periodontal consideration of denture base design•Types of artificial teeth	Denture Base in RPD	Theoretical lecture using power point	short exam ,semester ,mid and final exam
21	2	•Record bases•Types of record bases according to materials constructed from it•Occlusion rims•Occlusion rims for static jaw relation records•Occlusion rims for recording functional or dynamic jaw relationship	Record Bases, Occlusion Rims, Mounting and Arrangement of Teeth	Theoretical lecture using power point	short exam ,semester ,mid and final exam

		record•Mounting casts on the articulator•Arrangement of artificial teeth to the opposing cast•Principles that should be taken during arrangement of artificial teeth•Laboratory procedure of arrangement teeth (Example)			
22	2	•Biomechanical considerations•Possible movements of partial dentures•Tooth-tissue—supported prosthesis	Biomechanics of Removable Partial Dentures	Theoretical lecture using power point	short exam ,semester ,mid and final exam
23	2	•Tooth-supported partial denture•Occlusal Rest Seat Preparation and Denture Movement•Impact of Implants on Movements of Partial Dentures	Biomechanics of Removable Partial Dentures (continue)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
24	2	•Difference in Prosthesis Support and Influence on Design•Differentiation Between Two Main Types of Removable Partial Dentures	Principles of Removable Partial Denture Design	Theoretical lecture using power point	short exam ,semester ,mid and final exam
25	2	•Components of Partial Denture Design•Implant Considerations in Design	Principles of Removable Partial Denture Design (continue)	Theoretical lecture using power point	short exam ,semester ,mid and final exam
26	2	•1st Phase: Education of patient•2nd Phase: Diagnosis, Treatment Planning, Design, Treatment Sequencing, and Mouth Preparation•3rd Phase: Support for Distal Extension Denture Bases•4th Phase: Establishment and Verification of Occlusal Relations and Tooth Arrangements•5th Phase: Initial Placement	Clinical Phases of Removable Partial Denture Construction.	Theoretical lecture using power point	short exam ,semester ,mid and final exam

		Procedures•6th phase: Periodic Recall			
27	2	•Acrylic removable partial dentures•Appearance•Maintenance of space•Reestablishment of occlusal relationships•Conditioning of teeth and residual ridges•Interim restoration during treatment•Conditioning the patient for wearing a prosthesis•Clinical procedure for placement	Acrylic Removable Partial Dentures	Theoretical lecture using power point	short exam ,semester ,mid and final exam
28	2	•Flexible removable partial dentures•Type of material used for the flexible denture•Support•Retention	Flexible Removable Partial Dentures	Theoretical lecture using power point	short exam ,semester ,mid and final exam
29	2	Broken clasp arms•Several reasons for breakage of clasp arms•Fractured occlusal rests •Distortion or breakage of other components – major and minor connectors•Addition of a new artificial tooth to a RPD•Repair by soldering	Repairs and Additions to Removable	Theoretical lecture using power point	short exam ,semester ,mid and final exam
30	2	•Components of CAD/CAM system•Types of Digital Scanner•Digital RPD Framework Design (step by step)•Digital Fabrication Process	Digitally Designed & Fabrication Process of RPD Framework Using CAD/CAM System	Theoretical lecture using power point	short exam ,semester ,mid and final exam
			Practical Lab		
1	2		Introduction to Removable Partial Dentures		
2	2		Kennedy Classification		
3	2		Cast Trimming		

4	2		Surveying		
5	2		Surveying		
6	2		Wire Bending		
7	2		Wire Bending		
8	2		Acrylic Removable Partial Denture Design		
9	2		Acrylic Removable Partial Denture Laboratory Procedures		
10	2		Acrylic Removable Partial Denture Laboratory Procedures		
11	2		Flexible Partial Denture Design		
12	2		Flexible Partial Denture Laboratory Procedures		
13	2		Flexible Partial Denture Laboratory Procedures		
14	2		Flexible Partial Denture Laboratory Procedure		
15	2		Principles of 2D Design for the Removable Partial Denture		
16	2		Principles of 2D Design for the Removable Partial Denture		
17	2		Principles of Drawing 2D Design for the Removable Partial Dentures		
18	2		Principles of 2D Design for the Removable Partial Denture		
19	2		2D Design for Mandibular & Maxillary Arches		

20	2		2D Design for Mandibular & Maxillary Arches		
21	2		2D Design for Mandibular & Maxillary Arches		
22	2		Drawing Removable Partial Denture 3D Design & CAD/CAM		
23	2		Drawing Removable Partial Denture 3D Design & CAD/CAM		
24	2		Types of Rests		
25	2		Rests Seat Preparation		

11. Infrastructure	
1. Books Required reading:	Carr, A.B. Brown, D.T. (2011) McCracken's Removable Partial Prosthodontics.12th ed. St. Louis, Missouri: . R. Mosby, Inc., Elsevier Inc
2. Main references (sources)	▪Robert, W. L. (2018) Removable Partial Denture Manual. Dalhousie University.
A- Recommended books and references (scientific journals, reports...).	▪Phoenix, D Cagna, R. D. Charles, F. D. (2008) Stewart's Clinical Removable Partial Prosthodontics. 4th ed. Quintessence Publishing Co, Inc.▪GPT9 2017. TheGlossary of Prosthodontic Terms. J Prosth. Dent.
B-Electronic references, Internet sites...	▪Zoidis P, Papathanasiou I, Polyzois G. The use of a modified poly-etherether-ketone (PEEK) as an alternative framework material for removable dental prostheses. A clinical report. J Prosthodont 2016;25:580-4.