TEMPLATE FOR COURSE 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.

1. Teaching Institution	Kirkuk university
2. University Department/Centre	Dental college
3. Course title/code	Operative dentisty
4. Modes of Attendance offered	On campus
5. Semester/Year	2022
6. Number of hours tuition (total)	27 operative 27 crown and bridge
7. Date of production/revision of this specification	2020-2021

8. Aims of the Course

This courrse introduces fundamental concepts of operative dentistry and crown and bridge emphasizing biomaterials science and its clinical application. This preclinical course includes a theoretical and practical component. The theoretical component is designed to give the students basic cognitive knowledge of the principals, terminology, instruments, materials and techniques utilized in the practice of operative dentistry. The practical component provides the student with the initial experience in the application of restorative procedures for managing the carious process on phantom heads.

9· Learning Outcomes, Teaching ,Learning and Assessment Methode

1. Describe the principals, terminology, instruments, materials and techniques used in the practice of operative dentistry. (coda-f)

2. Understand the use of resin composite and glass ionomer materials in the scope of operative dentistry. (coda-f)

3. Recognize the basic principles of cavity preparation. (coda-f)

4. Practice caries removal and pulp protection prior to restorative procedures on artificial teeth. (coda-f)

5. Understand and practice operator positions for operative procedures. (coda-f)

A- Cognitive goals .

A1. 1. Define the principles of tooth preparation for restorations using dental amalgam.

2. Explain the protocols for restoring with dental amalgam and List and differentiate between different methods of cavities classifications.

3. List the basic physical properties of amalgam restoration

4. List the steps in placement of amalgam restoration.

5. List and describe finishing and polishing techniques for amalgam.

6. Describe the indications and reasons for using both rotary and hand instruments in cavity preparations and explain the instrument classification and use, instrument grasps.

7. Describe the rationale for using the rubber dam and demonstrate the proper placement and use of the rubber dam, clamps, gingival retractor and frame to achieve field isolation.

8. Describe the correct positioning of the operator, the patient and the chairside assistant for accomplishing clinical procedures in any give segment of the oral cavity.

B. The skills goals special to the course.

B1. Demonstrate the ability to prepare and restore teeth with dental amalgam (Class I, II MO, DO ,MOD and class V).

B2. Demonstrate the ability execute complex tooth preparations and restore it.

B3. Demonstrate the ability to prepare a cast restorations

Teaching and Learning Methods

- Problem or Project based Learning
- Power point Presentation, class discussion, educational videos.
- The practical part will include demonstration and practice of certain laboratory activities and tests.

Assessment methods

1. Quizzes
2. Test
5. Practical test and oral Assessment (Lab)
6. Final Exam

C. Affective and value goals

C1. value the profession of dentistry through the advancement of professional organizations.

2. Develop a code of behavior that demonstrates an appreciation for professional research and life-long learning.

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development) D1.Tooth Preperation D2.Amalgam restoration D3.Isolation D4.Dental materials

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
	3		Introduction to Fixed Prosthodontics	On campus	
	1		Definition of operative dentistry	On campus	
	2		Principles of cavity preparations	On campus	Quiz
	1		Instrumentation of cavity	On campus	
	3		Biomechanical principles of tooth preparation:	On campus	
	1		Sterilization of operative instruments	On campus	Test
	9		Biomechanical principles of tooth preparation	On campus	
	4		Cavity liners and cement bases	On campus	
	3		Dental amalgam alloys	On campus	
	6		Tooth colored restorations composite	On campus	
	1		Flouride realizing materials	On campus	
	2		Full metal crown:	On campus	
	2		Porcelain fused to metal crown:	On campus	
	2		Complete ceramic crown (Porcelain Jacket Crown:	On campus	
	2		Partial veneer crown (three-quarter crown):	On campus	
	2		Post crown:	On campus	

	3		Impression for crown and bridge work:	On campus	
	6		Provisional restoration:	On campus	Test
	1		Working cast and dies	On campus	
	2		Cementation	On campus	

11. Infrastructure	
1. Books Required reading:	"Phillips' Science of Dental Materials" by Kenneth J. Anusavice; H. Ralph Rawls; Chiayi Shen.;12th ed., Elsevier, 2012.
2. Main references (sources)	"Summitt's Fundamentals of Operative Dentistry - A Contemporary Approach" by Hilton TJ et al, 4th ed., 2013.
A- Recommended books and references (scientific journals, reports…).	"Pulp-Dentin Biology in Restorative Dentistry" by Ivar A. Mjor, Quintessence books, 2002.
B-Electronic references, Internet sites…	

12. The development of the curriculum plan