



Course Specifications

Course Title:	Esthetic Dentistry
Course Code:	RDS 512
Program:	Bachelor of Dentistry [BDS]
Department:	Restorative Dental Sciences [RDS]
College:	College of Dentistry
Institution:	Majmaah University

Table of Contents

A. Course Identification	3
6. Mode of Instruction (mark all that apply)	3
B. Course Objectives and Learning Outcomes	4
1. Course Description	4
2. Course Main Objective.....	4
3. Course Learning Outcomes	4
C. Course Content	5
D. Teaching and Assessment	6
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods	6
2. Assessment Tasks for Students	8
E. Student Academic Counseling and Support	8
F. Learning Resources and Facilities	8
1. Learning Resources	8
2. Facilities Required.....	9
G. Course Quality Evaluation	9
H. Specification Approval Data	9

A. Course Identification

1. Credit hours: 2(1+1+0)
2. Course type a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/> b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 5 th Year / 2 nd Semester
4. Pre-requisites for this course (if any): RDS 413
5. Co-requisites for this course (if any): NA

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	15	25%
2	Blended	NA	NA
3	E-learning	NA	NA
4	Correspondence	NA	NA
5	Other - Laboratory	45	75%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	15
2	Laboratory/Studio	45
3	Tutorial	-
4	Others (specify)	-
	Total	60
Other Learning Hours*		
1	Study	45
2	Assignments	15
3	Library	15
4	Projects/Research Essays/Theses	15
5	Others (specify)	-
	Total	90

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

It is a one-year course, given as one hour lecture and one practical session of 3 hours in the 2nd semester of the same year. Esthetic Dentistry is a branch that deals with beauty in dentistry, a philosophy concerned especially with the appearance of a dental restoration, as achieved through its color or form

Esthetic Dentistry is one of the most important courses in dentistry where the student deals with simultaneous application of technical and artistic skills thus enabling them to achieve outstanding esthetic and functional results. They should also possess an intimate knowledge of the different esthetic materials available, and their clinical indications, application and limitations in practice.

To practice successful Esthetic dentistry, the dental team must understand the relevant principles, notably those of smile design, and be aware of the different inter-disciplinary treatment modalities that are available. An effective communication within the dental team, with the dental technologist and, in particular, the patient is of paramount importance to ensure that the goals of esthetic dentistry are achieved, including patient satisfaction and the avoidance of unmet, possibly unrealistic, expectations. All these elements underpin and provide the foundations for successful esthetic dentistry.

2. Course Main Objective

The main purpose of the course is that the students should be able to diagnose aesthetic cases and derive an appropriate treatment plan and to demonstrate proper skills in placement and finishing of the restoration so as to be in par with global standards in aesthetic treatment of patients and set a standard in aesthetic dentistry.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
K3.36	Recognize cases which is of esthetic concern and arrive at a clinical diagnosis so as to restore the form and function of the tooth	K3
K3.37	Recall the concepts in esthetic dentistry and develop an appropriate treatment modality so as to restore the teeth to an acceptable level	
2	Skills :	
S3.21	Critically analyze clinical and radiographic findings of cases and predict a suitable restorative material which would be appropriate during restorative treatment	S2
S6.15	To demonstrate hand-eye coordination so as to perform rubber dam isolation, demonstrate minimally invasive operative procedures including proper manipulation, placement and finishing of restorative materials so as to reconstruct and restore the tooth and rehabilitate the oral cavity.	S6
3	Competence:	
C3.13	Demonstrate communicative skills with the patients and coordinate with fellow colleagues to submit a group task or assignment and	C3

CLOs		Aligned PLOs
	justify the restorative material for the management of a clinical cases	

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to operative dentistry 1. Introduction to 411 RDS course. 2. The course rules and regulations 3. Role of aesthetics in dentistry	1
2	Concepts and Fundamentals of Esthetics. Part - I Goals of smile design 1. Facial component - Proper alignment - Facial symmetry - Proportion of the face	1
3	Concepts and Fundamentals of Esthetics. Part - II 2. Dental component a) Tooth components - Dental midline - incisal length - Tooth dimensions - Zenith points - Axial inclinations - Contact area and contact point - Incisal embrasures - Sex, personality and age	1
4	Concepts and Fundamentals of Esthetics. Part - III b) Soft tissue components - Gingival health - Gingival levels and harmony - Interdental embrasure - Smile line	1
5	Color and Polychromatic Stratification. Part - I 1. Classification of colour - Munsell System - CIE L*a*b* system	1
6	Color and Polychromatic Stratification. Part – II 1. Light and colors 2. Perception of color	1
7	Color and Polychromatic Stratification. Part - III 3. Principles of shade matching 4. Shade Guides	1
8	Treatment discoloured tooth. Part - I - Causes of discoloration	1

	<ul style="list-style-type: none"> - Micro abrasion - Macroabrasion 	
9	Treatment discoloured tooth. Part –II Bleaching <ul style="list-style-type: none"> - Vital Bleaching - Non vital bleaching. 	1
10	Conservative Esthetic Procedures Diastema Closure Veneers <ul style="list-style-type: none"> - Partial veneers - Full veneers Putty Matrix technique	1
11	Indirect esthetic restorations. Part – I <ul style="list-style-type: none"> - Inlays - Onlays Modifications in preparations comparison to conventional preparations	1
12	Indirect esthetic restorations. Part - II Impression techniques CAD – CAM in esthetics	1
13	Periodontal considerations in aesthetic dentistry <ul style="list-style-type: none"> - Gingivectomy - Frenectomy - Crown lengthening procedures - Depigmentation - Lip Augmentation 	1
14	Adjunctive Orthodontics related to aesthetic dentistry <ul style="list-style-type: none"> - Definition - Goals of adjunctive treatment - Alignment of anterior teeth - Black triangles - Gummy smile - Therapeutic alternatives 	1
15	Surgical Esthetic techniques <ul style="list-style-type: none"> - Skin Resurfacing (Re-epithilization) - Dental Implants - Alveolar distraction - Skeleto-facial Procedures - Bi-maxillary surgery - Facelift 	1
Total		15

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1	Knowledge		
K3.36	Recognize cases which is of	Lectures, Practical	Recall/Factual Questions in

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	esthetic concern and arrive at a clinical diagnosis so as to restore the form and function of the tooth	lab	Written exams , Oral evaluations, OSPE, Assignments
K3.37	Recall the concepts in esthetic dentistry and develop an appropriate treatment modality so as to restore the teeth to an acceptable level	Lectures, Practical lab	Recall/Factual Questions in Written exams , Oral evaluations, OSPE, Assignments
2	Skills :		
S3.21	Critically analyze clinical and radiographic findings of cases and predict a suitable restorative material which would be appropriate during restorative treatment	Comprehensive case will be presented to students and they will be asked to formulate a treatment plan. As well as lectures, clinics, case presentation & group research	Clinical cases related question will be discussed in the format of group discussion Practical sessions
S6.15	To demonstrate hand-eye coordination so as to perform rubber dam isolation, demonstrate minimally invasive operative procedures including proper manipulation, placement and finishing of restorative materials so as to reconstruct and restore the tooth and rehabilitate the oral cavity.	1.Clinical training on isolation procedures, cavity preparations and placement of restorative materials. 2. Check list for self-assessment of the task, Individualized attention for correction of mistake & grading of the task. 3.Practical assignments where a specific time limit is given to the student	Hands-on examination of tooth preparation procedures, Selection of appropriate restorative material, OSCE & Viva voce.
3	Competence:		
C3.13	Demonstrate communicative skills with the patients and coordinate with fellow colleagues to submit a group task or assignment and justify the restorative material for the management of a clinical cases	1. Students will be assigned to a particular patient and will be held responsible – 2. Practical sessions with group discussion	The group task / Assignment will be supervised closely and the work done by each student will be evaluated using rubrics

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
		3. Teach students how to deal with different patients' personalities and attitudes.	

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz	During the semester	05%
2	Midterm written exam	Week 7	20%
3	Final written exam	End of the semester	20%
4	Weekly Assessment	During the course	25%
5	Research	During the semester	05%
6	Behaviour and attitude	During the semester	05%
v	Final Practical Exam	During the semester	20%
	Total		100%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

The student shall avail the consultancy during the displayed office hours

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> ✓ Contemporary Esthetic Dentistry : George A. Freedman , ELSEVIER ...2012 ✓ Sturdivents Art and Science of operative dentistry 5th edition.
Essential References Materials	<ul style="list-style-type: none"> ✓ Esthetics In Dentistry Second Edition - Ronald E. Goldstein – 2nd Edition. ✓ The 21 Principles of Smile Design - <i>Lee Ostler</i> ✓ Smile Design- Nicholas C. Davis, DDS, MAGD Dent Clin N Am 51 (2007) 299–318
Electronic Materials	<ul style="list-style-type: none"> <input type="checkbox"/> Recommended selected articles will be posted in the course webpage. <input type="checkbox"/> www.pubmed.com <input type="checkbox"/> Google <input type="checkbox"/> www.sciencedirect.com

Other Learning Materials	<input type="checkbox"/> Library <input type="checkbox"/> Computers <input type="checkbox"/> Projects <input type="checkbox"/> Diagnostic instruments
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2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	<input checked="" type="checkbox"/> Lecture room suitable for 30 students <input checked="" type="checkbox"/> Fully equipped lab for practical sessions
Technology Resources (AV, data show, Smart Board, software, etc.)	<input checked="" type="checkbox"/> Projector <input checked="" type="checkbox"/> Smart board with all the accessories <input checked="" type="checkbox"/> Internet
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<input checked="" type="checkbox"/> Dental clinics <input checked="" type="checkbox"/> Laboratory for fabrication of indirect restorations <input checked="" type="checkbox"/> Sterilization equipment

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	<input checked="" type="checkbox"/> Course Evaluation Survey <input checked="" type="checkbox"/> Quality of Exam Survey
	Faculty	<input checked="" type="checkbox"/> CLO Mapping with teaching & assessment. <input checked="" type="checkbox"/> Course Blueprinting <input checked="" type="checkbox"/> Grade Analysis <input checked="" type="checkbox"/> Psychometric Analysis
	Peers	Grade Verification
Extent of achievement of course learning outcomes	Faculty member / Quality assurance committee	<input checked="" type="checkbox"/> Direct assessment outcome analysis <input checked="" type="checkbox"/> Course report preparation
Quality of learning resources, etc	Students / Faculty	<input checked="" type="checkbox"/> Academic advising survey <input checked="" type="checkbox"/> Student experience survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department Council
Reference No.	*****

Date
