

OVERVIEW AND DESCRIPTIONS OF OPERATIVE COURSES

RDS 110

**DENTAL
ANATOMY AND MORPHOLOGY**

Credit: 2 Hours

COURSE DESCRIPTION

This course is designed to provide the student with the basic elements of tooth morphology as an essential pre-requisite for other dental courses. The course comprises lectures and clinical simulation sessions. Using wax, students restore the missing coronal surfaces of complete tooth models by a wax carving technique. This is designed to reinforce the theoretical knowledge gained in the lectures, as well as contribute towards the development of manual dexterity, a skill which is essential in the practice of dentistry. Identification of natural tooth specimens forms a significant part of the practical component of the course.

Course Director (DUC) : [Prof. Ali El Sahan](#)

Course Director (MUC) : [Dr. Loulwa Al Saud](#)

Course Co-Director (MUC) : [Dr. Hanan Al Sombul](#)

RDS 112

**INTRODUCTION TO OPERATIVE
DENTISTRY**

Credit: /2Hours

COURSE DESCRIPTION

This course comprises clinical simulation exercises and lectures. It introduces the student to the field of operative dentistry by describing various techniques of diagnosing carious lesions and giving a wide overview of the instruments and procedures used in the operative dentistry clinical settings. The assessment in this course is mostly in the form of objective structured practical examinations (OSPE).

Course Director (DUC) : [Prof. Ali El Sahan](#)

Course Director (MUC) : [Dr. Loulwa Al Saud](#)

Course Co-Director (MUC) : [Dr. Hanan Al Sombul](#)

COURSE DESCRIPTION

This course consists of two main components, the principles of cavity preparations for the currently available restoratives, their physical and manipulative characteristics and cavity restoration. They are provided by the RDS Department during the two semesters of the second year of the RDS program. It is a 1 + 2 + 0, equivalent to 3 credit hours course for first semester plus 1 + 2 + 0 for second semester, or a total of 6 credit hours course.

This module will provide you with an overview of the Operative Dentistry Program, its organization, the kinds of instructional materials you will be using and the types of testing and grading procedures employed.

This course of study is critically important to your future as a practitioner. It prepares you to provide the major portion of dental care to your patients.

It will be a combination of lectures and lab exercises, representing different restorative procedures in Operative Dentistry. All of the lectures, instructional procedures and materials that you will receive have been designed to help.

Course Director (DUC) : [Dr. Maan Al Shaafi](#)

Course Co-Director (DUC) : [Dr. Mohammed Bin-Shuwaish](#)

Course Director (MUC) : [Dr. Rana Al Hamdan](#)

Course Co-Director (MUC) : [Dr. Yousra Al Jazairy](#)

RDS 311

RESTORATIVE
PROCEDURES

Credit: 4
Hours

COURSE DESCRIPTION

The course consists of 2 main components, Dental Morphology and Introduction to Operative Dentistry both of which are provided by the RDS Department in the first and second semesters respectively during the first year of the BDS program. It is a (1+1+0) course, equivalent to 4 credit hours.

Course Director (DUC) : [Dr. Mourad Benhameurlaine](#)

Course Director (MUC) : [Dr. Kholoud Al Mansour](#)

RDS 411

CLINICAL OPERATIVE
DENTISTRY II

Credit: 3 Hours

This course is the final operative course. It aims at reinforcement of the previous knowledge gained in the early operative dentistry courses and update of the students with newly developed restorative materials. The clinical sessions are directed towards the clinical application of the principles of operative dentistry by performing different kinds of cavity preparation and restoration. In addition, the students will be introduced to various treatment modalities in the area of esthetic dentistry in the anterior and posterior teeth.

Course Director (DUC) : [Prof. Khamis Hassan](#)

Course Director (MUC) : [Dr. Nadia Taher](#)

OVERVIEW AND DESCRIPTIONS OF ENDODONTIC COURSES

RDS322

PRE-CLINICAL ENDODONTICS

CREDIT: 3 HRS.

COURSE DESCRIPTION

The scope of the course includes preparing the third year students to understand, recognize, diagnose and successfully treat pulpally involved or potentially involved teeth. Important fundamentals are stressed with emphasis on the correlation between basic clinical and biological

principles. The course will have two main components:

1. Classroom lecture series, which correlates clinical with biological principles of endodontics.
2. Laboratory exercises to perform endodontic treatment on mounted extracted human teeth.

Course Directors (DUC) : [Prof. Abdulhamied Saad](#)

Course Directors (MUC) : [Dr. Dina Al Sudani](#)

RDS422

**CLINICAL ENDODONTIC PROCEDURES CREDIT:
4 HRS.**

COURSE DESCRIPTION

To train students to perform clinical aspects of endodontic therapy with emphasis on integrating clinical and biological principles. The students will be trained to treat endodontically involved anterior and posterior teeth. In addition, they will be trained to manage endodontic emergencies.

Course Directors (DUC): [Dr. Mohammed Al Obaida](#)

Course Directors (DUC): [Dr. Ebtisam Al Madi](#)

OVERVIEW AND DESCRIPTIONS OF DENTAL BIOMATERIAL'S COURSES

RDS 132

BASIC DENTAL BIOMATERIALS SCIENCE

COURSE DESCRIPTION

A dental material has always been a fascinating and challenging area for the dental practitioner. During the past several years, dental materials science has undergone a virtual explosion of new knowledge. The advent of new polymeric

and ceramic restorative systems, bonding and adhesive materials, implant materials, glass ionomer cements, precious and non-precious metal restorative systems and impression materials have virtually revolutionized the practice of modern dentistry. Therefore, dentist uses the largest number of materials from different classes. Materials are used in dentistry to prevent disease, restore parts of the teeth and associated structure, as well as replace and reconstruct whole teeth and associated hard/soft structures of the jaws and face in a functionally acceptable and esthetically pleasing manner.

This course is meant to teach the student of dentistry aspects of materials science necessary to enable him to understand and continue to learn dental biomaterials. Also, to develop an appropriate understanding of the criteria for the selection of materials for specific dental procedures.

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Course Directors (DUC): [Dr. Ihab Moussa](#)

Course Directors (MUC): [Prof. Nahed Bakir](#)

RDS 231

DENTAL BIOMATERIALS SCIENCES II

COURSE DESCRIPTION

This course continues where RDS 131 left off and logically progresses from direct restorations through indirect restorations. It provides basic information about direct and indirect restorative materials, bonding agents, and the new field of “Adhesive Dentistry.” It provides information about impression materials and gypsum materials. It provides step-by-step information about the casting procedure and the required dental materials. It augments the casting procedure with ceramo-metallic and ceramic materials. The indirect restorations section is completed with a presentation of temporary and permanent dental cements, including the most recent developments with resin cements. The course is completed with information about basic prosthodontic, endodontic, periodontic, and orthodontic materials and with a presentation on dental implant materials, designs, and special considerations.

Course Directors (DUC): [Dr. Alaa El Araby](#)

Course Directors (MUC): [Prof. Salwa Khier](#)

