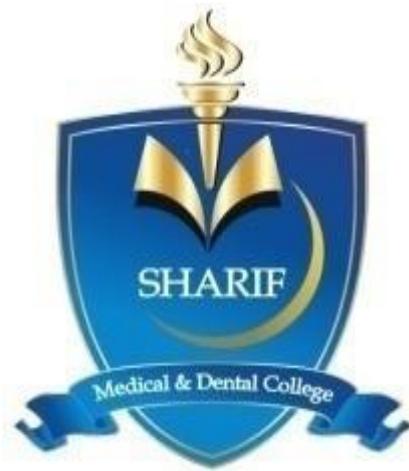


Department of Operative Dentistry



**Study Guide
Second Year BDS**

**College of Dentistry
Sharif Medical and Dental College**



PREFACE

Study guides can be broad based to facilitate learning in a number of areas, or be resources that foster comprehension of literature, research topics, history, and other subjects. It includes study and testing strategies; reading, writing, and project management skills; as well as techniques for learning as an adult, with disabilities, and online. It is like a teacher available 24 hours. It also includes the teaching methodology to be followed throughout the year.

At College of Dentistry, SMDC we follow the traditional annual academic schedule in which the subject of Operative Dentistry is taught in the second, third and final academic year of a dental school. Keeping in view the mission of UHS, Lahore and vision of our institute we have designed a training program which is intensive and at the same time interesting for the young minds. This guide includes details about various teaching activities which are to take place throughout the academic year along with the time allocation of each. A list of lectures to be conducted in this session with names of the instructors is attached. Broad learning outcomes of every section of the course accompanied by specific learning objective of every lecture is also included. A complete list of clinical work to be carried out in the simulator laboratory and clinic is part of this document. Details of various assessment and testing methodology are included and marks distribution for the subject in the final Professional examinations has been given. Names and email contacts of faculty have also been mentioned to foster better interaction between the teacher and the taught.

Dr. Muhammad Moazzam

FCPS (Pak), BDS

Assistant Professor & Head of Department

Operative Dentistry

SMDC, Lahore



VISION & MISSION OF UHS

Qualitative and Quantitative Revolution in Medical Education and Research through Evolution and thereby improve Health Care delivery to Populace.

UHS shall be innovative global center of excellence in learning and research, supporting a community of scholars and professionals committed to serving society, promoting the development of students to reach their true potential in becoming competent, ethical, caring, and inquiring health professionals for the benefit of the country and the wider world.

MISSION OF SMDC

Sharif Medical & Dental College is dedicated to best serve the nation through preservation and dissemination of advanced knowledge and educating the students by latest trends in learning and research reaching levels pars excellence.

The Institution is committed to provide standardized quality medical education to its students by inculcating professional knowledge, skills and responsibilities in them with the aim of:

- Preparing them as modern physicians having initiative to act as future leaders in their respective fields and becoming lifelong learners.
- Encouraging the spirit of critical thinking through research and publication.
- Building up an understanding of the ethical values compatible with our religion, culture and social norms.
- Developing a sense of being responsible citizens of the society possessing professional competence and instilling in them the values of hard work and dedication thus preparing them to be accountable to the stakeholders and the state.

The Institution is devoted to keep abreast its faculty with the latest trends in Medical Education encompassing teaching/learning methodologies, assessment tools, research opportunities and professionalism to facilitate their professional development, competencies, and commitment towards continues learning.

Our patient-centered mission is achieved by outstanding medical care & services in professional practice with due emphasis and focus on our local health needs.

Our mission further elaborates upon establishing academic and research facilities in areas of local demand under global gold standards and leading advancement in research, education & patient care.

VISION OF SMDC

To be recognized for the provision of a safe and functional environment conducive to collaborative teaching & learning, comfortable working atmosphere, and conducting world class research through professionalism and excellence.



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PLANNED TEACHING ACTIVITIES FOR SECOND YEAR BDS DEPARTMENT OF OPERATIVE DENTISTRY

PMC has allocated 100 hours of teaching in the subject of Operative Dentistry for the BDS course. In order to meet this requirement following teaching modules have been planned. These modules have been carefully designed to impart core knowledge of Operative Dentistry in a manner that an undergraduate student can grasp the subject fully and is adequately prepared for university examinations.

Lectures:

A total of 109 lectures are planned for the entire year. The lectures will be conducted by the Assistant professors and senior lecturers with very good command in subject. The lectures will be interactive, and students should actively participate in them to clear their doubts. The students are required to take notes of the lectures and study the topic with the help of prescribed textbooks in light of the learning objectives of the topic enunciated by the teacher at the beginning of each lecture.

Clinical Training:

This is six days a week program. Students have to visit each clinical department for two months in a year. This includes restorations and root canal treatment of patients under supervision. All faculty members and demonstrators are available all the time for guidance. Mostly students treat patients but side by side they are given chance to diagnose patients. Students are required to enter their work in their log books and get them checked by the instructors regularly.



**TRAINING PROGRAM FOR LECTURES
DEPARTMENT OF OPERATIVE DENTISTRY
SECOND YEAR BDS**

Sr. No.	Topics	Lecture
1	Introduction to dental operatory and armamentarium	Dr. Danial
2	Introduction to dental operatory and armamentarium	Dr. Danial
3	Introduction to dental operatory and armamentarium	Dr. Danial
4	Introduction to instruments used in cavity preparation	Dr. Danial
5	Introduction to instruments used in cavity preparation	Dr. Danial
6	Introduction to instruments used in cavity preparation	Dr. Danial
7	Principals of cavity preparation	Dr. Sadaf
8	Principals of cavity preparation	Dr. Sadaf
9	Principals of cavity preparation	Dr. Sadaf
10	Cavity preparation on plaster models	Dr. Danial
11	Cavity preparation on plaster models	Dr. Danial
12	Cavity preparation on plaster models	Dr. Danial
13	Cavity preparation and filling on extracted teeth	Dr. Sadaf
14	Cavity preparation and filling on extracted teeth	Dr. Sadaf
15	Cavity preparation and filling on extracted teeth	Dr. Sadaf
16	Methods of sterilization	Dr. Sadaf
17	Methods of sterilization	Dr. Sadaf
18	Methods of sterilization	Dr. Sadaf
19	Rubber dam, components, application	Dr. Danial
20	Rubber dam, components, application	Dr. Danial
21	Rubber dam, components, application	Dr. Danial
22	Use of matrix band, matrix band retainer, and wedges	Dr. Sadaf
23	Use of matrix band, matrix band retainer, and wedges	Dr. Sadaf
24	Use of matrix band, matrix band retainer, and wedges	Dr. Sadaf
25	Anterior crown: porcelain fused to metal	Dr. Danial
26	Anterior crown: porcelain fused to metal	Dr. Danial
27	Anterior crown: porcelain fused to metal	Dr. Danial
28	Posterior crown: metal, porcelain fused to metal	Dr. Danial
29	Posterior crown: metal, porcelain fused to metal	Dr. Danial
30	Posterior crown: metal, porcelain fused to metal	Dr. Danial
31	Bridge: metal, porcelain fused to metal	Dr. Sadaf
32	Bridge: metal, porcelain fused to metal	Dr. Sadaf
33	Bridge: metal, porcelain fused to metal	Dr. Sadaf
34	Repair work of crown and bridge	Dr. Sadaf
35	Repair work of crown and bridge	Dr. Sadaf



LIST OF LECTURES AND LEARNING OBJECTIVES DEPARTMENT OF OPERATIVE DENTISTRY

OPERATIVE DENTISTRY

This is pre-clinical subject. Knowledge of this subject help student identify patient's problem. So emphasis should be laid on its knowledge. At the end of the course student must be able to identify caries, other dental problems and their management.

Sr. no.	Title of lecture with learning objectives
1	Introduction to dental operatory and armamentarium Should know about operatory equipment Should know about dental chair and its functioning Should be able to identify different instruments Should know about all dental instruments
2	Introduction to instruments used in cavity preparation Should be able to describe dental cavities Should know about cavity preparation instruments Should know handling of instruments Describe use of instruments
3	Principals of cavity preparation Describe outline form Describe resistance form Describe retention form Describe convenience form Describe secondary resistance and retention form
4	Cavity preparation on plaster models Describe outline form Describe resistance form Describe retention form Describe convenience form Describe secondary resistance and retention form
5	Cavity preparation and filling on extracted teeth Describe outline form Describe resistance form Describe retention form Describe convenience form Describe secondary resistance and retention form Describe Use of amalgam Describe use of composite Describe use of GIC

	Describe use of zinc oxide eugenol
6	Methods of sterilization Should know disinfection of instruments Should know about B & N type autoclave Should know about chemical, gas and physical sterilization
7	Rubberdam, components, application Should know about rubberdam sheet Should know about rubberdam instruments Should know about single tooth isolation Should know about multiple teeth isolation
8	Use of matrix band, matrix band retainer, and wedges Describe matrix band and its use Describe matrix band retainer Should know about wedges and their use
9	Anterior crown: porcelain fused to metal Should know esthetics Should know indication and contraindications of anterior crown Describe metal free crowns Describe PFM crowns
10	Posterior crown: metal, porcelain fused to metal Should know esthetics Should know indication and contraindications of anterior crown Describe metal free crowns Describe PFM crowns
11	Bridge: metal, porcelain fused to metal Should know ante's law Should know indication and contraindications of anterior crown Describe metal free crowns Describe PFM crowns
12	Repair work of crown and bridge Describe fault in crowns and bridges Should know failures of crowns Describe repair methods of crown and bridge



LIST OF PRECLINICAL PROCEDURES SECOND YEAR BDS

Sr.no.	Clinical Procedure	Description
1	Class 1 Amalgam Cavity	<ul style="list-style-type: none">• Cavity preparation with GV Black's laws• Restoration with modelling wax
2	Class 2 Amalgam Cavity	<ul style="list-style-type: none">• Cavity preparation with GV Black's laws• Restoration with modelling wax
3	Class 3 Amalgam Cavity	<ul style="list-style-type: none">• Cavity preparation with GV Black's laws• Restoration with modelling wax
4	Class 4 Amalgam Cavity	<ul style="list-style-type: none">• Cavity preparation with GV Black's laws• Restoration with modelling wax
5	Class 5 Amalgam Cavity	<ul style="list-style-type: none">• Cavity preparation with GV Black's laws• Restoration with modelling wax



STAFF CONTACTS DEPARTMENT OF OPERATIVE DENTISTRY

Muhammad Moazzam	muhammad.moazzam@sharifmedicalcity.org
Mubashir Rasheed	mubashir.rasheed@sharifmedicalcity.org
Ali Akbar	Aliakbar6378@gmail.com
Sadaf Amjad	sadafamjadkhawaja@gmail.com



REFERENCE BOOKS

1. The Art & Science of Operative Dentistry by Sturdevant.
2. Pickards Manual of Operative Dentistry by EAM Kidd.
3. Fundamentals of Operative Dentistry by Schwartz.