

**MEDICAL UNIVERSITY - SOFIA**  
**DEPARTEMENT OF PROSTODONTICS -**

**CURRICULUM**

**NAME OF DISCIPLINE** – Dental materials, Educational degree-  
Master`s, Kind of discipline - binding

**PROLONGATION OF THE COURSE**- 2 semesters, Level of the  
course- Master`s

**EDUCATIONAL FORMS OF ASSESSMENT**:evaluations of  
seminars,tests,practical and theoretical exams

**KIND OF FORMS AND METHODT FOR TRAINING USED IN  
COURSE** - lectures,workshops,seminars,exercises

**SEMESTRIAL EXAM** -yes-to the end of the semester,

**LECTURER OF DENTAL MATERIALS**

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**DEPARTMENT** – Department of Prostodontics,

## **ANNOTATION OF THE COURSE**

The course provides an opportunity for acquiring knowledge about the origin, methods of manufacture, presentation, composition, properties, use and processing of materials used in dental materials. The course acquainted with the latest developments in dental materials.

## **DESCRIPTION OF THE COURSE**

The course consists of 60 academical hours –representing various forms of load;

Lectures -30 hours

Practicals-26 hours

Workshops-4 academical hours

## **FORMATION EVALUATION**

-assessing the students throughout the course,-evaluation of practical work during the semester

-a test of theory test,

-test results during the session

## **ASPECT IN THE FORMATION OF THE ASSESSMENT-**

-the participation in discussions and seminars,-

-practical test

-theoretical test

**TEACHING AIDS** – charts, tests, samples of various materials, models for demonstration

**GOAL OF CURRICULUM** - learning skills and methods of research composition, properties and processing technology of dental materials and their application in dentistry aid in accordance with European standart for healthcare.

## **TASKS OF THE PROGRAM-**

Learning about the origin and mode of production of dental materials;

-to establish knowledge of the purpose and manner of processing of dental materials;

-to gain knowledge of the composition and properties of dental materials;

To acquire practical skills for processing of dental materials. It is highly recommend from students

Previously to have basic knowledge in chemistry, biology, physics

## **RESULT EXPECTATIONS**

After completion of the course, students must have a basic knowledge about the origin, composition, properties, and purpose of dental materials. The students have learned the methods of treatment of the main groups of dental materials. The students may properly consider

The need of application of a given material in accordance with the requirements of the course.

## **RECOMMENDED LITERATURE**

### **ADDITIONAL LITERATURE**

## **TOPICS FOR INDEPENDENT WORK-**

1. Basic materials
2. Clinical materials, CONSPECT FOR TRAINING- we send it to you

## **CHAPTERS FROM THE PROGRAM-**

1. Auxiliary dental materials – gypsum products, dental waxes, casting investments
2. Restorative materials
3. Dental cements, adhesive materials
4. Impression materials

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**CURRICULUM OF DENTAL MATERIALS**

**LECTURES 1 course, 1 SEMESTER /WINTER/**

15 WEEKS, 2 ACADEMICAL HOURS per every 2 WEEKS

1 WEEK	HISTORY OF DENTAL MATERIALS
3 WEEK	MECHANICAL PROPERTIES OF DENTAL MATERIALS
5 WEEK	GYPSUM PRODUCTS
7 WEEK	DENTAL WAXES CASTING INVESTMENT
9 WEEK	METALS AND DENTAL ALLOYS
11 WEEK	NOBEL DENTAL ALLOYS
13 WEEK	BASE METAL ALLOYS
15 WEEK	CORROSION RESISTANSE

**LECTURES 1 course, 2 SEMESTER /SUMMER/**

15 WEEKS, 2 ACADEMICAL HOURS per every 2 WEEKS

1 WEEK	OPTICAL PROPERTIES OF DENTAL MATERIALS
3 WEEK	DENTAL POLYMERS
5 WEEK	DENTAL CERAMICS,METAL –CERAMIC PROSTHESIS
7 WEEK	IMPRESSION MATERIALS
9 WEEK	RESTORATIVE MATERIALS
11 WEEK	IMPRESSION MATERIALS
13 WEEK	RESIN-BASED COMPOSITES.DENTAL AMALGAMS
15 WEEK	GLASS IONOMER CEMENT

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**CURRICULUM OF DENTAL MATERIALS**

**PRACTICAL EXERCISES 1 course, 1 SEMESTER /WINTER/**

15 WEEKS, 2 ACADEMICAL HOURS per every TWO WEEKS

1 WEEK	CLINICAL AND LABORATORY PROTOCOL
3 WEEK	FINISHING AND POLISHING MATERIALS
5 WEEK	MECHANICAL PROPERTIES OF DENTAL MATERIALS
7 WEEK	GYPSUM PRODUCTS
9 WEEK	DENTAL WAXES.CASTING INVESTMENTS
11 WEEK	SEMINAR
13 WEEK	DENTAL ALLOYS
15 WEEK	CORROSION RESISTANCE

**PRACTICAL EXERCISES 1 course, 2 SEMESTER /SUMMER/**

15 WEEKS,2 ACADEMICAL HOURS per every TWO WEEKS

1 WEEK	OPTICAL PROPERTIES OF DENTAL MATERIALS
3 WEEK	DENTAL POLYMERS
5 WEEK	DENTAL CERAMICS .METAL-CERAMICS .ARTIFICIAL TEETH
7 WEEK	IMPRESSION MATERIALS
9 WEEK	DENTAL CEMENTS
11 WEEK	SEMINAR
13 WEEK	RESIN-BASED COMPOSITE MATERIALS
15 WEEK	PRACTICAL EXAMINATION