

DENTAL MATERIALS AND TECHNOLOGY

LECTURE

2013/2014, 1st semester, 2nd year, Dental students
Fall semester: 2 September – 7 December 2013

Place: Faculty of Dentistry, B Building, White Room
Time: Tuesday 13.00-15.00 (2 hours/week)
Exam: Examination
Credit: 3

Date	Lecture	Lecturer
03. 09. 2013.	1. Introduction to dental materials science. Importance of dental material knowledge in dentistry. History of dental materials. International standards for materials used in dentistry (ISO, DIN etc.). Classification of dental materials based on structure and utilization	Dr. Kinga Turzó associate professor
10. 09. 2013.	2. Types, classifications and applications of impression materials Presentation of elastic impression materials.	Dr. Zoltán Baráth associate professor Attila Elekes, GC
17. 09. 2013.	3. Examining, treating and preventive methods used in dentistry from technological point of view. Die materials and methods of model preparation	Dr. János Perényi assistant professor Dr. István Pelsőczy Kovács associate professor
24. 09. 2013.	4. Burs and polishing instruments in dentistry.	Dr. Zoltán Baráth
01. 10. 2013.	5. Basic physical properties of materials. Test methods for materials in dental material science	Dr. Kinga Turzó
08. 10. 2013.	6. Polymers used in dentistry (1 st part). Practical aspects of polymers used in dentistry (2 nd part)	Prof. Dr. Zoltán Rakonczay professor Dr. Krisztina Kárpáti assistant lecturer
15. 10. 2013.	7. Waxes. Occlusion papers and foils. Artificial teeth (acrylic and ceramic)	Dr. Danica Matusovits assistant professor
22. 10. 2013.	8. Filling materials and adhesive technologies. Dental cements and endodontic materials	Dr. Emese Battancs assistant lecturer
29. 10. 2013.	9. Structure and properties of metals and alloys used in dentistry. Electroforming. Corrosion of metals	Dr. István Pelsőczy Kovács
05. 11. 2013.	10. Investment, investment materials, metal casting. Processing of surfaces of dental appliances, polishing	Annamária Hódi dental technician
12. 11. 2013.	11. Amalgam. Allergic reactions to dental materials	Prof. Dr. Zoltán Rakonczay
19. 11. 2013.	12. WRITTEN TEST	Dr. Zoltán Baráth
26. 11. 2013.	13. Materials used for porcelain-fused-to-metal restorations. All-ceramic systems, composition, characteristics, processing	Dr. András Forster assistant professor
03. 12. 2013.	14. Course evaluation	Dr. Danica Matusovits

Compulsory literature:

Dental Materials and Their Selection: Edited by W.J. O'Brien. Quintessence Publishing Co, Inc.

DENTAL MATERIALS AND TECHNOLOGY PRACTICE

2013/2014, 1st semester, 2nd year, Dental students
Fall semester: 2 September – 7 December 2013

Place: Faculty of Dentistry, Training Laboratory
Time: Thursday 15.00-17.00 (1 hour/week, once in two weeks)
Exam: Signature
Credit: 0

Teacher: Dr. István Pelsőczy Kovács associate professor
Dr. Györgyey Ágnes Ph.D student

Date	Topics
05. 09. 2013.	1-2. Carving a premolar and an upper central incisor tooth in plaster (white)
19. 09. 2013.	3-4. Impression materials in practice (impression gypsum products in practice, take impression from a coin, demonstration and use putty and wash materials)
03. 10. 2013.	5-6. Making impression with alginate on manikin, casting impression with gypsum. Basing the cast, five pointed trimming
17. 10. 2013.	7-8. The use of burs, cutting and polishing instruments
31. 10. 2013.	9-10. Dental polymers in practice (Pattern resin, preparing different forms: cube and cone etc.)
14. 11. 2013.	11-12. Waxes (bite registration on manikin, demonstration of waxes). Carving a central incisor and a molar in wax
28. 11. 2013.	13-14. Dental cements and filling materials in practice. Endodontic materials in practice (Dr. Emese Battancs)

Requirements for students

- Active participation on lectures and practices according to the Study and Exam Regulations of the University and the Faculty of Dentistry.
- Attendance of lectures and practices is mandatory.
- Completion of the tasks in the laboratory
- Keeping the Rules of students' activity in the Dept. of Prosthodontics, it can be read on the Coospace.

Calculation of mark at the end of the semester

Theory: evaluation (5)

The mark is the average of all MTO-s. A failed mark has to be improved during the semester; it may be corrected only once! The failed mark/s will be included in the calculation of the average.

If the student is absent at the time of the MTO, it will be regarded as a failed mark.

If the average of all MTO's (including the failed ones) does not reach 2.0, the end semester mark is failed, but can be corrected in the exam period according to the Study and Exam Regulations of the University and the Faculty of Dentistry.

If a student fails all MTO-s (including the retake of the MTO) during the semester, the semester will not be accepted - the semester can not be evaluated.

Practice: term mark (5)

- Average of the marks receiving for the practical tasks in the Training Laboratory. The average must be at least 2.0.

If the student gets 3 or more failed marks during the semester for his/her practical work, then the semester cannot be evaluated and accepted.

- Average of the marks of small written or oral tests relating the theoretical knowledge which is necessary to carry out the practical work. The average must be at least 2.

Form of tests: oral test, written test, etc. - The mark of these may be max. 3 times failed(1), after collecting three failed marks the student has to improve it through a written test, the topic is given by the tutor. The student gets one opportunity to write the test. If the student gets further failed mark, the semester/practice is not accepted, it can not be evaluated.

- If either of the above averages (for the practical work or the relating theory) does not reach 2.0 the end semester practical mark cannot be evaluated and accepted, the student has to repeat the course.

Consequences of coming late to the practice:

Students must come to the practice on time.

If a student is late three times, it is equal with one missing practice.

If a student comes more than 20 minutes late, it is regarded as an absence.

The Exam consists of a written and oral part. Passing the written part is a condition for entrance to the oral part of the exam.