



University of Rijeka
Faculty of Dental Medicine
Course: Fixed Prosthodontics
Course Director: Prof. prim. PhD Ivone Uhač, DMD
Department: Department of Prosthodontics
Program: University Integrated Undergraduate and Graduate Study of Dental Medicine (in English)
Year of Study: 6th year
Academic Year: 2026/2027

SYLLABUS

Course Information (brief course description, general instructions, location and format of teaching, required materials, instructions on attendance and preparation, student obligations, etc.):

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Course: Fixed Prosthodontics

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The course **FIXED PROSTHODONTICS** is a mandatory subject consisting of 30 hours of lectures, 60 hours of seminars, and 165 hours of clinical practice, totaling 255 hours and 17 ECTS credits. The course takes place in specialized prosthodontic dental offices on the premises of the Clinic of Dental Medicine, Krešimirova 40.

The aim of the course is to qualify students for the diagnostics and treatment of damaged or missing masticatory units that cannot be restored through conservative dental-medical procedures, the prevention of adverse consequences resulting from tooth damage and loss, and the re-establishment and maintenance of proper function and aesthetics through the fabrication of restorations anchored to abutment teeth. A further objective is to introduce students to fundamental clinical procedures for fabricating fixed prosthodontic restorations ranging from the simplest partial fixed restorations to complex fixed prosthodontic rehabilitations, combined fixed and removable restorations, and implant-supported fixed restorations. Special emphasis is placed on teamwork and interdisciplinary collaboration with specialists from various medical fields in order to manage complex cases of oral rehabilitation. Students will be qualified for independent practical work on patients.

The objective of the instruction is to enable students, through lectures, practical exercises, and seminars, to acquire all the knowledge and skills necessary for the planning and fabrication of fixed prosthodontic restorations.



Course Content

- Anamnesis, clinical examination, fixed prosthodontic diagnostics, and treatment planning. Periodontal aspects of fixed prosthodontic work. Preparation of the teeth and oral cavity for fixed prosthodontic therapy. Anesthesia. Tooth preparation (reduction) – clinical approach. Impression procedures – clinical approach. Form, shade, and aesthetics of natural and artificial teeth. Conventional and adhesive cementation systems. Longevity and complications during the service life of fixed prosthodontic restorations.
- Biomechanics of abutment teeth. Crowns – classification, indications, contraindications. Provisional crowns, full metal crowns, veneered crowns, metal-ceramic crowns, full acrylic crowns, all-ceramic crowns, partial crowns, modified crowns, telescopic and tapered crowns, post and core crowns, inlays, onlays, overlays, and porcelain veneers.
- Definition and basic components of a bridge, indications, contraindications. Pontic design. Bridge statics. Acrylic, immediate, and provisional bridges; inlay bridges; cantilever bridges; removable bridges; adhesive bridges; and metal-ceramic bridges. Planning. Rehabilitation of the stomatognathic system using fixed prosthodontic restorations. Crowns and bridges in combined prosthetic work. Crowns and bridges on implants.

Course Delivery

Instruction is conducted continuously throughout the VII, VIII, IX, X, and XI semesters in the form of lectures, seminars, and practical exercises totaling 255 hours (L 30 + S 60 + P 165). During seminars, students actively participate in presentations and discussions related to specific theoretical units. In clinical exercises, the instructor demonstrates individual clinical stages, and students gradually acquire proficiency and independence in performing practical clinical tasks on patients under instructor supervision. Two mandatory mid-term examinations (colloquia) will be held during the course, followed by a practical and oral examination at the end of the term. By fulfilling all course requirements and taking the mandatory mid-term and final examinations, the student earns 17.0 ECTS credits.

Assigned reading:

Ćatić A. et al. Clinical fixed prosthetics I: crowns. Zagreb: Medicinska naklada; 2015 Schillingburg TH., Hobo S., Whisett L., Jacobi R. Basics of fixed prosthodontics. Quintessence Publishing Co 2008.

Ćatović A. et al. Clinical fixed prosthetics, Zagreb: Faculty of Dentistry, University of Zagreb, 1999. Clinical fixed prosthetics I" - crowns - authors: Amir Ćatić, Adnan Ćatović, Marko Jakovac, Dragutin Komar, Ivan Kovačić, Ketij Mehulić, Ivone Uhač and Denis Vojvodić. Zagreb: Medicinska naklada, 2015.

Uhač I. Complete crowns - basics of grinding, Authorized lecture. 2011.

<https://www.medri.hr/katedre/Protetika/novosti.php>

Uhač I. Aesthetic fixed prosthetic reconstructions - clinical and laboratory approach, Authorized lecture. 2011. <https://www.medri.hr/katedre/Protetika/novosti.php>



Optional/additional reading:

Mehulić K. Ceramic materials in dental prosthetics. Zagreb: School book; 2010 Rosentiel S., Land F., Fujimoto J. Contemporary fixed prosthodontics, 4th edition. Mosby inc. Publishing 2006

Živko-Babić J, Jerolimov V. I et al. Dental materials. Selected chapters. Zagreb: Faculty of Dentistry, 2005.

Jerolimov V. et al. Dental materials. Zagreb: Faculty of Dentistry, University of Zagreb, 2003.

Gnatologij@net.http://www.sfzg.hr. Kraljević K. Anatomy and physiology of occlusion, Zagreb, Globus, 1991

Course Plan:

List of Practicals with Explanations:

Practicals for the course Fixed Prosthodontics are conducted at the Clinic of Dental Medicine, Clinical Hospital Centre Rijeka, in specialist prosthodontic offices. Practicals are organized in small groups (4 students per instructor).

Building on the knowledge and skills acquired during the 4th and 5th years, students in the 6th year will work with patients presenting more complex clinical cases. They will master the use of articulators and the dental arch. Students will plan and perform all clinical stages involved in the preparation and fabrication of larger fixed prosthodontic constructions, combined prostheses, and telescopic-supported restorations. Implant-supported prosthetic restorations will also be demonstrated.

By the end of the 11th semester, students will acquire the knowledge and skills necessary for fabricating all types of fixed prosthodontic restorations, ranging from the simplest constructions to more complex and combined fixed-removable prostheses.

Student Responsibilities:

Students are required to regularly attend and actively participate in all forms of teaching, including the practical completion of all assigned tasks.

Examination (examination procedure, description of the written/oral/practical components, scoring method, grading criteria):

Student assessment is carried out in accordance with the current Regulations on Studies of the University of Rijeka. Student performance will be evaluated and graded during the course of instruction and at the final exam. Student grading is implemented using the ECTS (A–F) and numerical (1–5) grading systems. Grading within the ECTS system is performed using absolute distribution.

Students can accumulate a maximum of 100 assessment points throughout the semesters and the final exam (a maximum of 70 assessment points during the semesters and a maximum of 30 assessment points at the final exam). During the semesters, a student can accumulate a maximum of 70 assessment points (Table 1), broken down as follows:

- 30 points from 2 mid-term exams (colloquia)
- 10 points from a seminar paper
- 30 points during practical exercises through continuous evaluation of theoretical and practical



knowledge

Mid-term exams will be held in written form at the end of the VIII and X semesters. Exercise supervisors will evaluate theoretical knowledge and practical work on patients, and the final scoring will take the average grade into account. Students who fail any of the mid-term exams (less than 50% solved correctly) will be granted one make-up mid-term exam. During instruction, a student must accumulate a minimum of 40 assessment points in order to be eligible to take the final exam. A student who achieves 40 or more points during instruction takes the final exam, where they can earn a maximum of 30 points. A student who accumulates a total of 39.99 assessment points during instruction has not met the requirements, receives a failing grade (F), and must re-enroll in the course.

Final Examination

The final exam is both practical and oral, covering the syllabus defined by the course curriculum and program. A maximum of 30 assessment points can be earned at the final exam: 5 points for the practical part and 25 points for the oral part. The final grade is determined based on overall student activity—specifically, the assessment points accumulated during the semester combined with the assessment points earned at the final exam.

To receive a final course grade, the student must successfully pass the final exam. To receive a passing grade on the final exam, both the practical and oral parts must be successfully completed. Students are required to bring their completed clinical exercise logbook to the final exam. If a student fails the final exam, they receive a failing grade and have the right to register for the next examination session.

	ASSESSMENTS	Maximum number of assessment points
Midterms	I. mid-term exam – at the end of the VIII semester	15
	II. mid-term exam – at the end of the X semester	15
	TOTAL	30
Practicals	Continuous evaluation of theoretical and practical knowledge. The average grade is taken into account in the following manner: ocjena D(2) = 5 points ocjena C(3) = 10 points ocjena B(4) = 20 points grade A(5) = 30 points	30
Seminar paper	Written format (PPT presentation) and oral presentation	10
	TOTAL	70

Table 1: Evaluation of Student Obligations for the University Study of Dental Medicine for the Course Fixed Prosthodontics



Evaluation of the mid-term exam worth 15 assessment points. The mid-term exam is held in written form. The mid-term exam is evaluated with 15 assessment points, 30 questions = 15 points. Each correct answer is multiplied by a coefficient of 0.5 to obtain the total number of points on the mid-term exam (15/30). A minimum of 50% correct answers is required to pass. Students who do not successfully pass one of the mid-term exams (less than 50% of the test solved correctly) will be granted one make-up mid-term exam. To access the exam, the student must successfully pass both mid-term examinations.

Evaluation of the final exam worth 30 assessment points. 5 points – practical part of the exam 25 points – oral part of the exam

Determination of the final grade: The assessment points achieved during the VII, VIII, IX, X, and XI semesters are added to the points achieved at the final exam. Based on the total sum of points, students are graded as follows:

A (5) – 90–100 assessment points

B (4) – 75–89.99 assessment points

C (3) – 60–74.99 assessment points

D (2) – 50–59.99 assessment points

F (1) – 0–49.99 assessment points

The numerical grading system is compared with the ECTS system as follows: A – excellent (5), B – very good (4), C – good (3), D – sufficient (2), F – insufficient (1).

Ostale napomene (vezane uz kolegij) važne za studente:

Course Correlations and Prerequisites

The *Fixed Prosthodontics* program is linked with specific components of the courses *Materials in Dental Medicine* and *Preclinical Fixed Prosthodontics*, which are prerequisites for enrollment in this course.

Teaching and Learning Approach

During lectures, students should focus on physiology, diagnostics, treatment planning, and all clinical and laboratory stages of fabricating fixed prosthodontic restorations. In seminars, students actively participate to synthesize theoretical knowledge with clinical skills.



Attendance

Attendance in all forms of teaching is mandatory. Students may be absent for up to 30% of the total instruction time with valid justification. Any student unable to attend practicals must provide a valid reason for absence and arrange make-up sessions or alternative scheduling with the practical instructor, as feasible. Classes are conducted at the scheduled times, and entry after the instructor has started is not permitted. Eating and drinking during class is prohibited, and unnecessary entry/exit during sessions is not allowed. Mobile phone use is forbidden during classes and knowledge assessments.

Seminar Papers

Seminar papers must be prepared using a computer (with spelling and grammar checks) and submitted electronically first. Printing and/or public presentation of the paper may only occur after approval and arrangement with the assistant or group leader. Copying other students' work is prohibited; however, the use of selected content from other sources is permitted if properly cited.

Academic Integrity

Adherence to academic integrity principles is expected from both instructors and students in accordance with the University of Rijeka Code of Ethics

http://www.uniri.hr/hr/propisi_i_dokumenti/eticki_kodeks_svri.htm.

Contacting Instructors

Students may contact instructors during designated consultation hours. All course-related announcements will be provided during the introductory lecture and posted on the course notice board.



Course Timetable (Academic Year 2026/2027)

Date	Lecture (time and place)	Seminar (time and place)	Practical (time and place)	Instructor
29.09.2026.			8.00-10.15 Office 6 V1Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
02.10.2026			8.00-10.15 Office 6 V1Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent. Mario Fable, dr. med. dent. Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
06.10.2026.			8.00-10.15 Office 6 V2Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
09.10.2026.			8.00-10.15 Office 6 V2Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent. Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD Mario Fable, dr. med. dent.
13.10.2026.			8.00-10.15 Office 6 V3Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
16.10.2026.			8.00-10.15 Office 6 V3Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent. Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD Mario Fable, dr. med. dent.
20.10.2026.			8.00-10.15 Office 6 V4Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD



23.10.2026.			8.00-10.15 Office 6 V4Grup F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent. Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD Mario Fable, dr. med. dent.
27.10.2026.			8.00-10.15 Office 6 V5Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
30.10.2026.			8.00-10.15 Office 6 V5Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent. Mario Fable, dr. med. dent.
03.11.2026.			8.00-10.15 Office 6 V6Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
06.11.2026.			8.00-10.15 Office 6 V6Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent. Mario Fable, dr. med. dent.
10.11.2026.			8.00-10.15 Office 6 V7Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
13.11.2026.			8.00-10.15 Office 6 V7Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent. Mario Fable, dr. med. dent.
17.11.2026.			8.00-10.15 Office 6 V8Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
20.11.2026.			8.00-10.15 Office 6 V8Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent. Mario Fable, dr. med. dent.
24.11.2026.			8.00-10.15 Office 6 V9Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
27.11.2026.			8.00-10.15 Office 6 V9Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent.



01.12.2026.			8.00-10.15 Office 6 V10Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
04.12.2026.			8.00-10.15 Office 6 V10Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent.
08.12.2026.			8.00-10.15 Office 6 V11Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
11.12.2026.			8.00-10.15 Office 6 V11Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent.
15.12.2026.			8.00-10.15 Office 6 V12Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
18.12.2026.			8.00-10.15 Office 6 V12Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent.
22.12.2026.			8.00-10.15 Office 6 V13Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
08.01.2027.			8.00-10.15 Office 6 V13Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent.
12.01.2027.			8.00-10.15 Office 6 V14Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
15.01.2027.			8.00-10.15 Office 6 V14Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent.
19.01.2027.			8.00-10.15 Office 6 V15Group E	Prof. PhD Vlatka Debeljak,DMD Prof. PhD Sunčana Simonić Kocijan, DMD
22.01.2027.			8.00-10.15 Office 6 V15Group F	Prof. prim.dr.sc. Renata Gržić, dr.med.dent.



	PRACTICALS (Topics)	Teaching hours	Location/Lecture room
V1	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V2	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V3	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V4	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V5	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V6	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V7	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V8	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V9	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V10	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V11	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V12	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V13	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40



V14	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
V15	Acquiring the knowledge and skills necessary for the fabrication of combined restorations and complex fixed prosthodontic restorations.	3	Krešimirova 40
TOTAL TEACHING HOURS		45	

	FINAL EXAM DATES
1.	27.01.2027.
2.	10.02.2027.
3.	07.06.2027.
4.	07.07.2027.
5.	08.09.2027.
6.	16.09.2027.
7.	