



**Sveučilište u Rijeci**  
University of Rijeka



**Sveučilište u Rijeci • Fakultet dentalne medicine**  
**University of Rijeka • Faculty of Dental Medicine**

*Krešimirova 40/42 • 51000 Rijeka • CROATIA*  
*Phone : + 385 51 559 200; 559 202, 559 203*

**Course: General and Special Surgery**

**Course Coordinator: prof Aleksandra Pirjavec Mahić, PhD,MD**

**Department: Department of Surgery**

**Study program: Study of Dental Medicine**

**Study year: 3rd**

**Academic year: 2023/2024**

### **SYLLABUS**

**Course description (a brief description of the course, general instructions, where and in what form the lessons are organized, necessary equipment, instructions for attendance and preparation for classes, student obligations, etc.):**

The aim of Lectures on General Surgery is to give students the basic knowledge of work on surgery, including asepsis, sterilization, surgical instruments and suturing materials. The general part contains the pathophysiology of wound healing and surgical treatment of the wound is especially treated. In the special surgery chapters, the goal is to teach students about the surgical treatment of diseases and injuries, especially those that can affect dental practice. The teaching program is designed to meet the training needs of dentists, and introduces them to selected chapters of general and special surgery, especially acute surgical diseases, their diagnosis, provision of basic surgical assistance and methods of surgical treatment. At the end of the lectures, the student will acquire theoretical knowledge about the tissue healing process, surgical infections, injuries and more common surgical diseases. Students will be able to assess whether and what type of surgical therapy is appropriate; what is surgical therapy in general and what are the advantages and complications compared to non-surgical therapy. The student will also be able to judge whether there are contraindications for dental-medical treatment in more common diseases from the field of surgery. Students will acquire basic knowledge about the most common injuries in the field of traumatology, and the basic principles of treating isolated and multiple injuries, including resuscitation. After completing the practical exercises, the student will acquire competencies in the surgical treatment of minor wounds, knowing the principles of antisepsis and asepsis, methods of sterilization, with the application of local anesthesia. He will be competent in dressing wounds and burns, with the proper use of dressings, sutures and classical surgical instruments. He will be able to apply adequate temporary immobilization in case of injuries and fractures, he will be trained to stop external bleeding using a compression bandage, Esmarch bandage or surgical hemostasis. The student will acquire competencies for setting up the infusion or transfusion procedure, blood access, intravenous drug administration and urinary catheter placement.

#### **Assigned reading:**

- 1.Schwartz SI, Shires GT, Spencer FC et al. Principles of Surgery. McGraw Hill, New York, 2015, 10<sup>th</sup> edition
2. McGraw Hill, New York, 2015.



3. Sebiston Textbook of Surgery: the Biological Basis of Modern Surgical

Practice Hardcover – 16 February 2021.

4. Gray s Surgical Anatomy 1<sup>st</sup> Edition

**Optional/additional reading:**

**COURSE TEACHING PLAN:**

**The list of lectures (with topics and descriptions):**

1. L1 Introductory lecture,
2. L2 Sterilization, Asepsis and Antisepsis;
3. L3 Wound - types, healing, infections
4. L4 Surgical materials and instruments
5. L5 Principles in plastic surgery
6. L6 Transfusiology
7. L7 Pathophysiological response to tissue injury
8. L8 Burns and frostbite
9. L9 Vascular surgery of the head and neck
10. L10 Basics of traumatology
11. L11 Neck and thyroid surgery
12. L12 Microsurgery
13. L13 Head and neck neurosurgery
14. L14 Pediatric surgery
15. L15 Skin tumors
- 16 L16 Breast surgery – carcinoma, aesthetic procedures
17. L17 Breast reconstruction
- 18 L18 Facial aesthetic medicine
- 19 L19 Final lecture and exam preparation

**The list of seminars with descriptions:**

**The list of practicals with descriptions:**

Locality of Rijeka – Operating room in outpatient clinics



**Students' obligations:**

Students are obliged to regularly attend lectures and exercises.

**Assessment (exams, description of written / oral / practical exam, the scoring criteria):**

ECTS credit rating system:

Evaluation of students is carried out according to the valid Rulebook on studies of the University of Rijeka, and according to the Rulebook on evaluation of students at the Faculty of Medicine in Rijeka (adopted by the Faculty Council of the Faculty of Medicine in Rijeka).

The students' work will be evaluated and evaluated during the course and in the final exam. Out of a total of 100 points, a student can get 70 points during classes, and 30 points in the final exam.

Students are evaluated using the ECTS (A-E) and numerical system (1-5). Grading in the ECTS system is carried out by absolute distribution, and according to graduate grading criteria.

Out of the maximum 70 grade points that can be obtained during classes, the student must collect at least 40 grade points in order to take the final exam. Students who collect less than 40 evaluation points will have the opportunity to take one remedial mid-term exam and, if they pass the exam on that mid-term exam, they will be able to take the final exam. Students who collect between 40 and 49.9 grade points (FX grade category) have the right to take the final exam, which is then considered a remedial exam and is not scored, and in that case the final grade can only be 2E (50%). Students who collect 39.9 or less grade points (F grade category) must re-enroll in the course.

Student grades are earned through active participation in classes, completing assigned tasks, and taking mid-term exams as follows:

I. During the class, the following are assessed (maximum 70 points):

- a) class attendance (up to 5 points)
- b) compulsory colloquium (up to 40 points)
- c) compulsory test (up to 25 points)

- a) Class attendance (up to 5 points)

A student can miss 30% of classes solely for health reasons, which is justified by a doctor's excuse.

Attendance at lectures and exercises is mandatory. Compensation for exercises is possible with prior agreement with the leader.

If a student, excused or unjustified, misses more than 30% of classes, he cannot continue following the course and loses the opportunity to take the final exam. Time collected 0 ECTS credits and was graded F.

Attendance at classes (lectures and exercises) will be graded as follows:

% attendance grade points

70 - 85 3

86 - 100 5

- b) Mandatory colloquium (up to 40 points)



During classes, all students are required to take a colloquium in basic and advanced life support, where they earn a maximum of 40 points (range of 22-40). The colloquium is conducted in the Skills Cabinet with the use of a computer simulation program.

During the colloquium, the leader evaluates the acquired knowledge and skills of each student and evaluates the points as follows:

rating rating points

22 is enough

Good 28th

Very good 34

A great 40

c) Compulsory test (up to 25 points)

The written test consists of 40 questions and carries 25 evaluation points (range of 15-25; the criterion for obtaining evaluation points is 50% of correctly answered questions).

The points obtained in the written test are converted into grade points as follows:

Correct answers grade points

0-20

21

22

23, 24

25, 26

27, 28

29, 30

31, 32

33, 34

35, 36

37, 38

39, 40 0

15

16

17

18

19

20

21

22

23

24

25

Final exam (30 marks in total)

Who can take the final exam:

Students who have obtained more than 50 points during classes must take the final exam, where they can obtain a maximum of 30 points.

Students who have obtained 40-50 points during classes (belonging to the FX category) can sit for the final exam, with the fact that they must exceed 0-10% of the grade and according to the Regulations, they can only get a grade of 2E.



Who cannot take the final exam:

Students who obtained less than 40 points during classes do not have the right to sit for the final exam (they enroll in the second year course).

The final exam is an oral exam. It carries 30 evaluation points (range 15-30).

Success in the final exam is converted into grade points as follows:

rating rating points

Insufficient 0

15 is enough

A good 20

Very good 25

Excellent 30

In order to pass the final exam and the final evaluation (including the addition of previously achieved evaluation points during classes), the student must be positively evaluated on the final exam and achieve a minimum of 15 evaluation points (50%).

Grading in the ECTS system is done by absolute distribution, that is, based on the final achievement:

A – 90-100 grade points

B – 75-89.99 grade points

C – 60-74.99 grade points

D – 50-59.99 grade points

F– 0-49.99 rating points

The numerical grading system is compared with the ECTS system as follows:

Grades in the ECTS system are translated into a numerical system as follows:

A - excellent (5),

B – very good (4),

C – good (3),

D – sufficient (2).

F – insufficient (1).

**Other important information regarding to the course:**

**Retaking the course:**

Lectures are held AT THE STUDY OF DENTAL MEDICINE - KREŠIMIROVA 40 - 2ND FLOOR

Exercises are held in Sušak, Rijeka, Kantrida according to the schedule



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**COURSE SCHEDULE (for academic year)**

| Date     | Lectures<br>(time and place) | Practicals<br>(time and place) | (time and place)   | Instructor  |
|----------|------------------------------|--------------------------------|--|---|
| 21.03.24 | L1                           | Exercises                      | 08,45-09,30<br>10,00 – 11,00                               | Prof.dr.sc. Aleksandra Pirjavec Mahić   |
| 28.03.24 | L2<br>L3<br>L4               | Exercises                      | 08,45-09,30<br>09,30-10,15<br>10,15-11,00<br>11,15-13,30   | prof.dr.sc. Damir Grebić<br>prof.dr.sc. Damir Grebić<br>Prof.dr.sc. Harry Grbas                           |
| 04.04.24 | L5<br>L6                     | Exercises                      | 08,45-10,15<br>10.15-11.00<br>11,15-13,30                  | Prof.dr.sc. Aleksandra Pirjavec Mahić<br>Prof.dr.sc. Sanja Balen  |
| 11.04.24 | L7<br>L8                     | Exercises                      | 08,45-09,30<br>09,30-11,00<br>11,15-13,30                  | Prof.dr.sc Vlatka Sotošek<br>Prof.dr.sc. Aleksandra Pirjavec Mahić  |
| 17.04.24 | L9<br>L10                    | Exercises                      | 08,45-10,15<br>10,15-11,00<br>11,15-13,30                  | Prof.dr.sc Miljenko Kovačević<br>Prof.dr.sc. Aleksandra Pirjavec Mahić<br>Simona Komen Mokrović, dr. med. |
| 24.04.24 | L11<br>L12                   | Exercises                      | 08,45-10,15<br>10,15-11,00<br>11,15-13,30                  | Prof.dr.sc Franjo Lovasić<br>Prof.dr.sc. Aleksandra Pirjavec Mahić  |
| 02.05.24 | L13<br>L14<br>L15            | Exercises                      | 08,45-09,30<br>09,30-10,15<br>10,15 – 11,00<br>11,15-13,30 | Prof.dr.sc Darko Ledić<br>Doc.dr.sc. Ana Bosak Veršić<br>Prof.dr.sc. Aleksandra Pirjavec Mahić            |
| 09.05.24 | L16<br><br>L17               | Exercises                      | 08,45-09,30<br>09,30-10,15<br>10,15-11,00<br>11,15-13,30   | prof.dr.sc. Damir Grebić<br>prof.dr.sc. Damir Grebić<br>Prof.dr.sc. Aleksandra Pirjavec Mahić             |
| 16.05.24 | L18<br>L19                   | Exercises                      | 08,45-10,15<br>10,15-11,00<br>11,15-13,30                  | Prof.dr.sc Aleksandra Pirjavec Mahić<br>Prof.dr.sc. Aleksandra Pirjavec Mahić                             |



**List of lectures, seminars and practicals:**

|     | <b>LECTURES (Topics)</b>                             | <b>Teaching hours</b> | <b>Location/Lecture room</b> |
|-----|--|-----------------------|------------------------------|
| L1  | L1 Introductory lecture,                             | 1                     |                              |
| L2  | L2 Sterilization, Asepsis and Antisepsis;            | 1                     |                              |
| L3  | L3 Wound - types, healing, infections                | 1                     |                              |
| L4  | L4 Surgical materials and instruments                | 1                     |                              |
| L5  | L5 Principles in plastic surgery                     | 2                     |                              |
| L6  | L6 Transfusiology                                    | 1                     |                              |
| L7  | L7 Pathophysiological response to tissue injury      | 1                     |                              |
| L8  | L8 Burns and frostbite                               | 2                     |                              |
| L9  | L9 Vascular surgery of the head and neck             | 2                     |                              |
| L10 | L10 Basics of traumatology                           | 1                     |                              |
| L11 | L11 Neck and thyroid surgery                         | 2                     |                              |
| L12 | L12 Microsurgery                                     | 1                     |                              |
| L13 | L13 Head and neck neurosurgery                       | 1                     |                              |
| L14 | L14 Pediatric surgery                                | 1                     |                              |
| L15 | L15 Skin tumors                                      | 1                     |                              |
| L16 | L16 Breast surgery – carcinoma, aesthetic procedures | 2                     |                              |
| L17 | L17 Breast reconstruction                            | 1                     |                              |
| L18 | L18 Facial aesthetic medicine                        | 2                     |                              |
| L19 | L19 Final lecture and exam preparation               | 1                     |                              |
|     | <b>TOTAL TEACHING HOURS</b>                          |                       |                              |

|     | <b>SEMINARS (Topics)</b>    | <b>Teaching hours</b> | <b>Location/Lecture room</b> |
|-----|-----------------------------|-----------------------|------------------------------|
| S1  |                             |                       |                              |
| S2  |                             |                       |                              |
| S3  |                             |                       |                              |
| S4  |                             |                       |                              |
| S5  |                             |                       |                              |
| S6  |                             |                       |                              |
| S7  |                             |                       |                              |
| S8  |                             |                       |                              |
| S9  |                             |                       |                              |
| S10 |                             |                       |                              |
|     | <b>TOTAL TEACHING HOURS</b> |                       |                              |

|    | <b>PRACTICALS (Topics)</b> | <b>Teaching hours</b> | <b>Location/Lecture room</b> |
|----|----------------------------|-----------------------|------------------------------|
| P1 | 21.03.24                   | 11,15-13,30           | Locality of Rijeka           |
| P2 | 28.03.24                   | 11,15-13,30           | Locality of Rijeka           |
| P3 | 04.04.24                   | 11,15-13,30           | Locality of Rijeka           |
| P4 | 11.04.24                   | 11,15-13,30           | Locality of Rijeka           |



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| P5                          | 18.04.24 | 11,15-13,30 | Locality of Rijeka |
| P6                          | 25.04.24 | 11,15-13,30 | Locality of Rijeka |
| P7                          | 02.05.24 | 11,15-13,30 | Locality of Rijeka |
| P8                          | 09.05.24 | 11,15-13,30 | Locality of Rijeka |
| P9                          | 16.05.24 | 11,15-13,30 | Locality of Rijeka |
| P10                         | 23.05.24 | 11,15-13,30 | Locality of Rijeka |
| <b>TOTAL TEACHING HOURS</b> |          |             |                    |

|                   |                             |          |        |        |
|-------------------|-----------------------------|----------|--------|--------|
| Predmet           | General and Special Surgery |          |        |        |
| Oblik nastave     | Predavanja                  | Seminari | Vježbe | Ukupno |
| Ukupni broj sati  | 25                          |          | 25     | 50     |
| Broj sati on line | 10                          |          | 0      | 10     |
| Postotak          | 40,00%                      |          | 0,00%  | 20,00% |

|    | <b>FINAL EXAM DATES</b> |
|----|-------------------------|
| 1. | 10.06.24                |
| 2. | 08.07.24                |
| 3. | 09.09.24                |
| 4. |                         |