

Semmelweis University, Faculty of Medicine - undivided, one-tier training in general medicine

Name of the host institution (and any contributing institution):

Városmajori Szív- és Érgyógyászati Klinika - Kísérletes Kardiológiai és Sebészeti Műtéttani Tanszék

Name of subject in Hungarian: Középhaladó mikrosebészeti kurzus

Name of subject in English: Intermediate microsurgery techniques

Name of subject in German: Intermediäre Mikrochirurgische Techniken

Credit value of the course: 1

Semester: 7th semester

(in which the subject is taught according to the curriculum)

Weekly hours	Lecture	Practice	Seminar
0.0	0.0	0.0	0.0

Semester hours	Lecture	Practice	Seminar
14.0	1.0	13.0	0.0

Type of course:

elective

Academic year:

2026/27

Language of instruction (for optional and elective subjects):

English

Course code:

AOSKMI1243_1A

(in the case of a new course, to be completed by the Dean's Office, following approval)

Course coordinator name: Dr. Toronyi Éva

Course coordinator location of work, telephone availability: Nagyváradi tér 4.

Course coordinator position: associate professor

Course coordinator Date and number of habilitation: 2012

Objectives of the course, and its place in the curriculum of the medical training program:

The course aims to provide further insights into intermediate-level microsurgical techniques, instrumentation, and suturing, with a primary focus on developing participants' hands-on skills. This course is in English but is open to all three classes (Hungarian, English, and German).

Format of the course (lectures, group work, practical lessons, etc.):

After the theoretical introductions, the students can improve their technical skills in various microsurgical training settings on in vitro and ex vivo models, with access to high-end equipment and personalized supervision from tutors.

Competencies acquired through completion of course:

Acquisition of specialized knowledge and confident handling of microsurgical instruments, including the basics of application of microsurgical suturing techniques.

Course outcome (names and NEPTUN ID of related subjects):

Prerequisites for course registration and completion: (NEPTUN ID):

Successful completion of the mandatory course 'Basic Surgical Techniques' is required.

In the case of multi-semester courses, position on the possibility of and conditions for concurrent registration:

No

The number of students required to start the course (minimum, maximum), method of selecting participants:

The minimum number of students required for the course is 10, with a maximum of 15. Registration is available via NEPTUN and is processed in the order of receipt.

Detailed course syllabus (if the course can be divided into modules, please indicate): (Theoretical and practical instruction must be broken down into hours (weeks), numbered separately; names of instructors and lecturers must be listed, indicating guest lecturers/instructors. It cannot be attached separately! For guest lecturers, attachment of CV is required in all cases!)

Lecture:

Basics of Microsurgery - methodology, instrumentation, suturing techniques, and skills (1x 45 min, Dr. Szabó Györgyi)

Practises:

1. Special training for fine movement (1x45 min, Dr. Szabó Györgyi)
2. Microsurgery stitching techniques using an in vitro model (2x45 min, Dr. Szabó Györgyi)
3. Microsurgical anastomosis techniques using in vitro models (3x45 min, Dr. Szabó Györgyi)
4. Microanastomoses techniques using ex vivo model (7x45 min, Dr. Csukás Domokos)

Other courses with overlapping topics (obligatory, optional, or elective courses) in interdisciplinary areas. To minimize overlaps, topics should be coordinated. NEPTUN ID(s) of courses (to be provided):

Requirements for attendance, options for making up missed sessions, and method of absence justification:

The course consists of 2 days.

Each day contains two sessions: a morning session from 8:30 am to 11:30 am, and an afternoon session from 12:30 pm to 3:30 pm.

The presence will be regularly checked and documented in writing by the Department.

Regarding the elective type and the course's practical profile, no make-up is feasible.

Assessment methods during semester (number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks):

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Tutors provide feedback on development during the practical sessions.

Number and type of individual assignments to be completed, submission deadlines:

No

Requirements for the successful completion of the course:

Presence of at least 25% of the course is required.

Type of assessment:

term grade

Exam requirements (list of topics, topics of the test exam, and the optional project topics accepted as an exam)

Documentation of attendance during the practical sessions determines the final grade. No further examination is required.

Clear, specific minimum requirements for assessment. (The list of mandatory concepts, parameters, diagrams, calculations, and practical skills required to obtain a passing grade, as well as the criteria for the completion and evaluation of project assignments accepted as an exam.) A link published on the department's website referring to the minimum requirements of the course.

Students are required to attend at least 25% of the course sessions.

Method and type of grading (Share of theoretical and practical examinations in the overall evaluation. Inclusion of the results in the end-of-term assessment. Possibilities of and conditions for offered grades.): (Share of theoretical and practical examinations in the overall evaluation, Inclusion of the results in the end-of-term assessment, Possibilities of and conditions for offered grades)

Attendance during practical sessions is the subject of grading.

Improvement from grade 4 to 5 is possible through individual consultation, during which a short, topic-related written presentation will be expected and evaluated by the tutors.

Grading:

Failed (1) - No presence at least 25% of the course/minimum one session

Satisfactory (2) - presence only at one session

Moderate (3) - presence only at two sessions

Good (4) - presence only at three sessions

Excellent (5) - presence at all four sessions

No examination is required.

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Attendance during practical sessions is graded. No offered grades are available.

Artificial intelligence systems used in the teaching of the subject and the manner of their application

Not applicable.

List of coursebooks, textbooks, study aids and literature facilitating the acquisition of knowledge to complete the course and included in the assessment, precisely indicating which requirement each item is related to (e.g., topic by topic) as well as a list of important technical and other applicable study aids; possibility of individual or group student consultation, if available:

Online resources:

Type	Recommended
Title	Basic Surgical Techniques, e-book, (ed.) Ferencz et al.

Link	https://www.semmelweiskiado.hu/termek/1732/basic-surgical-techniques
Other/Comment	Semmelweis Publisher, Budapest, 2021, ISBN:9789633315330

Signature of habilitated instructor (course coordinator) announcing the course:

Signature of the director of the host institution:

Date of submission:
