

## REQUIREMENTS

<b>Semmelweis University, Faculty of Medicine – single, long-cycle medical training programme</b> <b>Name of the host institution (and any contributing institutions):</b> Heart and Vascular Center, Department of Experimental Cardiology and Surgical Techniques			
<b>Name of the subject:</b> Intermediate knotting and suturing techniques  <b>in English:</b> Intermediate knotting and suturing techniques  <b>in German:</b> -  <b>Credit value:</b> 1  <b>Semester:</b> Autumn semester of each Academic year <i>(as defined in the curriculum)</i>			
<b>Total number of classes per week:</b> 7	<b>lectures:</b> 3	<b>practical lessons:</b> 11	<b>seminars:</b> 0
<b>Type of subject:</b> compulsory <u>optional</u> elective (PLEASE UNDERLINE AS APPLICABLE)			
<b>Academic year:</b> 2025/2026 Autumn semester			
<b>Language of instruction, for optional or elective subjects:</b> English			
<b>Course code:</b> AOSKMI814_1A <i>(In the case of a new subject, this cell is filled in by the Dean's Office, following approval)</i>			
<b>Course coordinator:</b> Prof. Dr. Tamás Radovits  <b>Place of work, phone number:</b> Department of Experimental Cardiology and Surgical Techniques (H-1089 Budapest, Nagyvárad square 4. XI. floor.), 1-459-1500/56569  <b>Position:</b> Head of the Department  <b>Date and number of habilitation:</b> Semmelweis University 2020, 07/2020			
<b>Objectives of the course and its place in the medical curriculum:</b> The aim of this subject is to repeat the basic surgical techniques and the basics of the wound management, and get on the intermediate level of suturing and knotting by teaching new techniques. The practical skill training is based on the theoretical knowledge.			
<b>Place of instruction (address of lecture hall or seminar room etc.):</b> 1089 Budapest, Nagyvárad square 4., Operating Lab, Department of Experimental Cardiology and Surgical Techniques			
<b>Competencies acquired through the completion of the course:</b> Knowledge of 7 knotting techniques by hand and having skill in interrupted, running and special plastic suturing and suture removal techniques. Managing wounds, scar correction.			
<b>Prerequisites for course registration and completion:</b> Basis Surgical Techniques			
<b>Conditions for concurrent course registration and permission thereof in the case of a multi-semester subject:</b> -			
<b>Student headcount conditions for starting the course (minimum, maximum) and method of</b>			

**student selection:**

Minimum 5, maximum 20 students. Registration is made via Neptun and is accepted on a first-come, first-served basis.

**Detailed course description:**

*(Theoretical and practical instruction must be broken down into lessons (weeks), numbered separately. Please provide the names of lecturers in both types of lessons, indicating guest lecturers. This information is not to be attached separately. CVs of guest lecturers, however, must be attached.)*

*Lectures*

1. Knots and knot tying techniques (45 min, Dr. Daniella Fehér/Dr. Györgyi Szabó)
2. Interrupted and running suture lines and their application (45 min Dr. Daniella Fehér/Dr. Györgyi Szabó)
3. Plastic surgical suture types and their application (45 min Dr. Daniella Fehér/Dr. Györgyi Szabó)

*Practices*

1. Knotting tying (two-hand tie/one-hand tie: surgical and Wienese technique, Roeder loop, Aberdeen tie, slip knot, square knot, surgeon's knot) (45 min, Dr. Daniella Fehér/Dr. Györgyi Szabó)
2. Interrupted sutures: simple, horizontal mattress, Donati vertical mattress, Allgöwer vertical mattress, horizontal-Allgöwer suture (2x45 min, Dr. Daniella Fehér/Dr. Györgyi Szabó)
3. Running suture lines: simple, running-locked, intracutaneous, running-Donati, running horizontal mattress (2x45 min, Dr. Daniella Fehér/Dr. Györgyi Szabó)
4. Plastic surgical wound management I.: W-plasty, Z-plasty, special wounds (3x45 min, Dr. Daniella Fehér/Dr. Györgyi Szabó)
5. Plastic surgical wound management II.: Reverdin-plasty, elliptical excision, graft, foreign-body removal (3x45 min, Dr. Daniella Fehér/Dr. Györgyi Szabó)

**Related subjects due to interdisciplinary fields (both compulsory and elective) and potential overlaps between subjects:**

No

**Attendance requirements; conditions under which students can make up for absences and the method of absence justification:**

Regarding the optional type of the course, no making-up is feasible.

The course is built up 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 15:30.

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

**Form of assessment in the study period:**

(including the number, topics and scheduling of oral and written tests, their share in the overall evaluation, make-up tests and improvement tests)

Tutors give feedback about the development of suturing skills during the practical sessions.

**Number and type of assignments for individual work and the deadline for submission:**



No

**Requirements to obtain the teacher's signature:**

Presence at least 25% of the course (minimum one session).

**Type of assessment** (*comprehensive examination, end-term examination, term-grade, term-grade on a three-grade rating scale, no examination*):

The absence/presence sheet is used during practices for determining the final grade.

Active participation is highly expected during the course.
<b>Examination requirements:</b> <i>(list of examination topics, subject areas of tests / examinations, lists of mandatory parameters, figures, concepts and calculations, practical skills)</i>  No further examination is required.
<b>Method and type of grading:</b>  Attendance during practical sessions is the subject of grading. 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.
<b>List of course books, 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:</b>  <b>Ferencz, A. et al. (Ed.) (2021). Basic Surgical Techniques. Semmelweis Publishers</b> The textbook can be downloaded from the Semmelweis Publishers homepage: <a href="https://www.semmelweiskiado.hu/termek/1732/basic-surgical-techniques">https://www.semmelweiskiado.hu/termek/1732/basic-surgical-techniques</a>
<b>Signature of habilitated instructor (course coordinator) announcing the course:</b>  
<b>Signature of the director of the host institution:</b>  
<b>Date of submission:</b> 31/3/2025