

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

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

Gyermekgyógyászati Klinika - Bókay utcai részleg

Name of subject in Hungarian: Neonatológia

Name of subject in English: Neonatology

Name of subject in German: Neonatologie

Credit value of the course: 2

Semester: 7th semester, 8th semester, 9th semester, 10th semester, 11th semester, 12th semester
(in which the subject is taught according to the curriculum)

Weekly hours	Lecture	Practice	Seminar
2.0	2.0	0.0	0.0

Semester hours	Lecture	Practice	Seminar
0.0	0.0	0.0	0.0

Type of course:

elective

Academic year:

2026/27

Language of instruction (for optional and elective subjects):

english

Course code:

AOVGY1120_1A

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

Course coordinator name: Dr. Seri István

Course coordinator location of work, telephone availability: 06-1-334-3186

Course coordinator position: Professor

Course coordinator Date and number of habilitation: Not applicable: exempt from habilitation because he is a member of the Hungarian Academy of Sciences (MTA)

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

The Neonatology and Perinatology Elective course introduces basic information on fetal and neonatal physiology, pathophysiology and the diagnosis and clinical management of the most common fetal and neonatal conditions. The course facilitates application of the basic knowledge of students obtained in physiology, pharmacology and translational medicine / pathophysiology to pediatrics in general and perinatal and neonatal medicine in particular. Participation is also

expected to stimulate intellectual curiosity fundamental to becoming an outstanding clinician in any specialty/subspecialty.

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

lecture

Competencies acquired through completion of course:

Recognition of the most common perinatal and neonatal conditions based on clinical, laboratory and imaging information and acquiring basic knowledge on the principles of neonatal resuscitation.

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

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

Completion of the following topics/courses: Physiology II, Pharmacology II., Translational Medicine and Pathophysiology II.

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

None

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

10-30

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!)

1. Principles of patient care in the NICU (Prof. István Seri)
2. Resuscitation of the newborn (Dr. Lajos Lantos)
3. Neonatal respiratory pathology: Pathophysiology (Prof. István Seri)
4. Neonatal respiratory pathology: Diagnosis/Treatment (Dr. Barbara Szász)

5. Neonatal shock: Diagnosis and treatment (Prof. István Seri)
6. Complications of severe prematurity: P/IVH & PVL (Prof. István Seri)
7. Perinatal asphyxia/Neonatal Follow-up (Prof. Miklós Szabó)
8. Congenital heart disease - Diagnosis and treatment (Dr. Zsóka Horváth)
9. Surgical conditions of the fetus and neonate (Prof. Tibor Verebély)
10. Fluid-electrolyte & acid-base homeostasis (Prof. István Seri)
11. Neonatal imaging (Dr. Ildikó Várkonyi)
12. Closing Session/Exam (Prof. István Seri)

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:

According to Study and Examination rules

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):

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

Multiple-choice test containing 25 questions offered during the last session of the course in an open-book exam format.

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

Not applicable

Requirements for the successful completion of the course:

Successful examination

Type of assessment:

term grade

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

Multiple-choice written test exam at the end of the course using an open-book exam approach (see above)

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.

During the lectures, we publish the minimum knowledge required for each topic.

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)

Pass at the final, open-book exam

1. *Fail - Grade 1 (<40% of questions correctly answered)*
2. *Grade 2 (40-54% of questions correctly answered)*
3. *Grade 3 (55-70% of questions correctly answered)*
4. *Grade 4 (71-85% of questions correctly answered)*
5. *Grade 5 (>85% of questions correctly answered)*

Not applicable

Not applicable

No possibilities for offered grades

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

The use of learning aids supported by artificial intelligence is permitted; however, they are not considered official sources of information or educational material and may not be used during the exams.

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	Citation sources shown on slides during presentations (slides uploaded to Moodle)
Link	https://itc.semmelweis.hu/moodle/course/view.php?id=9765

Printed resources:

Type	Recommended
Author	Edited by Taylor Sawyer, DO, MEd and Christine A. Gleason, MD
Title	Avery's textbook of Neonatology
Publisher	
Year of publication	2023

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

Signature of the director of the host institution:

Date of submission:
