

## REQUIREMENTS

<p>Semmelweis University, Faculty of General Medicine – single, long-cycle medical training programme  <b>Name of the host institution (and any contributing institutions):</b>                  Department of Obstetrics and Gynaecology</p>			
<p><b>Name of the subject: Szülészet-nőgyógyászat</b>  <b>in English: Obstetrics and Gynaecology</b>  <b>in German: Geburtshilfe-Gynäkologie</b>  <b>Credit value: 4</b>  <b>Semester: 11<sup>th</sup>; 12<sup>th</sup></b>  <i>(as defined in the curriculum)</i></p>			
<p><b>Total number of classes per week: 40</b></p>	<p><b>lectures:</b></p>	<p><b>practical lessons: 40</b></p>	<p><b>seminars:</b></p>
<p><b>Type of subject:</b>    <u>compulsory</u>            optional            elective</p>			
<p><b>Academic year: 2023/24</b></p>			
<p><b>Language of instruction, for optional or elective subjects: English</b></p>			
<p><b>Course code: AOKNO1655_SA</b>  <i>(In the case of a new subject, this cell is filled in by the Dean's Office, following approval)</i></p>			
<p><b>Course coordinator: Prof. Dr. Ács Nándor</b>  <b>Place of work, phone number:</b> Department of Obstetrics and Gynaecology (1082 Budapest, Üllői út 78/A.) 06-1-2100290  <b>Position:</b> professor, clinic director  <b>Date and number of habilitation:</b> 245/2007.05.30</p>			
<p><b>Objectives of the course and its place in the medical curriculum:</b>                  The subject is taught in 4 or 5 rotations per academic year according to the rotation schedule for the academic year. The aim of the course is to deepen the knowledge of obstetrics and gynaecology acquired in year V and to learn how to apply it in clinical practice. The duration of the internship is 4 weeks. The fourth week is an examination week.</p>			
<p><b>Place of instruction (address of lecture hall or seminar room etc.):</b>                  SE ÁOK Department of Obstetrics and Gynaecology, Baross Street (1088 Budapest, Baross u. 27.)</p>			
<p><b>Competencies acquired through the completion of the course:</b>                  The teaching of obstetrics and gynaecology is part of the clinical training, starting in the 5th year and continuing throughout the curriculum with the VI year final examination - as well as the elective 6 week orientation placement for students who choose to do this after completing the post-registration placement.                  During this time, our main ambition is to combine the theoretical subjects and the knowledge provided by related clinical professions with obstetrics and gynaecology. Our aim is that, on completion of their university studies, newly qualified doctors will be able to practise medicine</p>			

independently, with up-to-date theoretical and practical knowledge, and with the right human relations with patients and their relatives and with health professionals.

**Prerequisites for course registration and completion:**

Completion of Year 5

**Conditions for concurrent course registration and permission thereof in the case of a multi-semester subject:**

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**Student headcount conditions for starting the course (minimum, maximum) and method of student selection:**

Based on registration in the Neptun system

**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.)*

**Specialist practical topics (Obstetrics and Gynaecology Clinic)**

The subject is taught in 4 or 5 rotations per academic year according to the rotation schedule for the academic year. The aim of the course is to deepen the knowledge of obstetrics and gynaecology acquired in year V and to learn how to apply it in clinical practice. The duration of the internship is 4 weeks. The fourth week is an examination week.

At the Obstetrics and Gynaecology Clinic in Baross Street, students are informed of their ward rotation, on-call duties and sessions during the week before the training. On the first day of the internship, students attend an opening consultation and welcome by the Director of the Clinic and the specialist in charge of the study. Each student is assigned a personal contact tutor, with whom he or she can consult on a daily basis on the subject and can also carry out examinations which, due to the intimate nature of the gynaecological profession, can only be carried out in a small group or with a tutor. The student will also have the opportunity to participate with the tutor in on-call duties and to assist in operations (e.g. assisting in caesarean section). At the opening consultation, the students will be given a list of requirements to be fulfilled. If any of the tasks have been completed by the student, they will be certified by the instructor's signature. Students can evaluate the usefulness of each event and task during the placement, thus helping to improve the educational work of the Clinic. On the first day of practice, the keys to the lockers and the protective clothing are distributed.

The first three weeks are spent in clinical practice, rotating between the following inpatient wards:

<b>Baross Street Obstetrics and Gynaecology Clinic</b>
Gynaecology Department and Gynaecological Outpatient Clinic
Oncology Department and Ultrasound Ambulance
Department of Paediatrics
Delivery room

In the Clinic, the ward rotation involves daily rounds with the ward doctors. During the departmental work, they practice taking anamnesis, general physical examination, special examinations of pregnant women (Leopold's maneuvers, measurement of abdominal circumference, fundus height, methods of calculating gestational age), Foley catheter placement, rectal digital examination. Meanwhile, students will learn about the most important pathologies and will evaluate the cases of patients selected by the head of the department in a case discussion with the tutors in preparation for the examination. Students can even follow the patients' in the operating theatres. Each

day, one student is assigned to each surgery as a second/third assistant. Participation in the following operations is compulsory: assisting in caesarean section, assisting in gynaecological surgery, assisting in laparoscopy, assisting in small obstetric operations (at least 2 cases) and gynaecological (at least 1 case) operations (fractionated curettage, abortion, etc.). During the practical training, students should learn the principles of CTG assessment and apply them to a specific case in front of their tutor.

In addition, during the traineeship, a number of on-call duties can be performed in accordance with the University's educational regulations and the Higher Education Act. During the on-call duty, the doctors on duty may call the student for any activity, who may examine and assist the student under supervision. During the activity in the delivery room, you will have the opportunity to follow the progress of the birth and assess physiological and pathological signs. You will learn how to assess the consistency and length of the cervix and the cervical dilatation (cervical index, Bishop score). During the training, you will be required to attend at least one spontaneous delivery from the time of admission to the delivery room until the time of transfer to the Puerperal Unit. You may assist in various forms of pain relief during childbirth, e.g. epidural analgesia. After delivery of the fetus, you may examine the placenta and umbilical cord under supervision, observe the first care of the newborn baby, and practise taking Apgar scores. Examination of the puerperal patient, assessment of involution and involution and healing processes are also tasks.

At the Baross Street Clinic during the week of the Oncology Department, time will be allocated for ultrasound exam the week of the Gynaecology Department, time will be allocated for the Gynaecology Outpatient Clinic. In the Gynaecology Outpatient Clinic, students can perform supervised bimanual examinations, colposcopy, practice the steps of cytology and vaginal fluid sampling and breast examination. They can learn about contraception (hormonal, IUD), infertility screening and family planning counselling (calendar, thermometer), and methods of testing for genital infections (vaginal pH, potassium hydroxide test, microscopic examination of vaginal secretions). In the Ultrasound Laboratory, they can watch gynaecological pelvic and abdominal ultrasound and pregnancy ultrasound screening. You must be present for at least 8 ultrasound examinations to meet this requirement.

The 4 weeks of clinical practice completed in Year VI are assessed by a practical certificate with signature. During the final consultation at the Clinic of Obstetrics and Gynaecology, Baross Street, on the last day of the internship, students will present and hand in the fully completed list of requirements as a condition for passing the examination. Afterwards, the exercise will be registered in Neptun. In year VI, a specialisation in obstetrics and gynaecology is required. The examination questions will include the examination questions of year V. Students answer one question on obstetrics, and one question on gynaecology. During the exam, which will be held in the fourth week at the Obstetrics and Gynaecology Clinic. At the Clinic, the examination is based on a separate set of examination papers for the VIth year.

Competency list of the knowledge to be acquired in the practical training of obstetrics and gynaecology in year VI:

Title	Expected level of knowledge (theoretical knowledge - ET, viewing - M, participation - R.)
<b><i>Physical tests</i></b>	<b><i>ET, M, R</i></b>
History of previous diseases	ET, M, R
General physical examination	ET, M, R
External genital examination	ET, M, R
Vaginal examination	ET, M, R
Digital rectal examination	ET, M, R
Rectovaginal examination	ET, M, R
Amine test	ET, M, R
Vaginal pH measurement	ET, M, R
Microscopic examination of a vaginal smear	ET, M, R
Cervical sampling	ET, M, R

Oncocytology sampling	ET, M, R
Colposcopic examination	ET, M, R
Pelvic ultrasound scan	ET, M,
Vaginal ultrasound scan	ET, M,
Curettage uteri	ET, M,
Instrumental completion of abortion	ET, M,
Artificial termination of pregnancy	ET, M,
Endometrial aspiration	EN
Diagnostic laparoscopy	EN
Infertility screening	ET, M,
Awakening temperature measurement and assessment	ET, M, R
Cervical spit examination	ET, M, R
Conducting and evaluating a pregnancy test	ET, M
Hysterosalpingography	EN
Chromohydrotubing	EN
Breast examination and education	ET, M, R
Bladder catheter placement	ET, M, R
Portio electrocoagulation	ET,
Operative laparoscopy	ET, M
Contraception advice	ET, M, R
Placement of an intrauterine device	ET, M,
Laparoscopic sterilisation	ET,
<b><i>Obstetrics</i></b>	
Pre-conceptual education, counselling	ET, M, R
Coronary heart disease risk assessment	ET, M
Biochemical screening for genetic abnormalities (Down)	ET,
Serological screening in pregnancy	ET,
Haematological screening in pregnancy	EN
Screening for gestational diabetes	ET, M
Determining the time of delivery using the Naegele method	ET, M, R
Determination of delivery time using the Neagele method corrected for cycle length	ET, M, R
Estimating the expected time of delivery by CRL measurement	ET, M, R
Estimating the expected time of delivery based on the first movement of the fetus	ET, M, R
Examination in first trimester	ET, M, R
Diabetes advice	ET, M
Advice in case of a positive haematological screening test result	ET, M
Advice in case of a positive blood group serological result	ET, M
Advice in case of a positive syphilis serology result	EN
II-III trimester antenatal examination	ET, M, R
Leopold maneuvers	ET, M, R
Determining gestational age by measuring Sy-Fu distance	ET, M, R
Determining gestational age by measuring abdominal circumference	ET, M, R
Cervical index determination	ET, M, R
Performing CTG and evaluating the curve	ET, M, R
Conduct NST and assess the result	ET, M, R
Coronary ultrasound scan	ET, M
Amniocentesis	EN
2nd trimester ultrasound scan	ET, M

Chorionic duct biopsy	EN
Ultrasound in the third trimester	ET, M
Oxitocin exercise test OTT evaluation	ET, M
Detection of a woman in labour	ET, M, R
Obstetric physical examination	ET, M, R
Bishop-score definition	ET, M, R
Amniotomy	EN
Barrier protection	ET, M
Local anaesthesia (barrier)	ET, M
Epidural analgesia	ET, M
Episiotomy	ET, M
Newborn care in the delivery room	ET, M
Newborn nose and throat suction	ET, M
Apgar value determination	ET, M, R
Management of the placental stage of labour	ET, M
Examination of placenta and umbilical cord	ET, M, R
Estimating maternal blood loss	ET, M
Care of a perforation wound	ET, M
Medicinal induction of labour	ET, M
Conducting a spontaneous vaginal birth	ET, M
Caesarean section	ET, M, R
Examination at puerperium	ET, M, R

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

Acute conditions - surgery, urology, intensive care  
 Newborn and premature newborn care - paediatrics  
 Tumours - pathology, oncology  
 Transfusion - 2-week transfusion course for transfusion candidates  
 Sepsis, haemorrhagic conditions - intensive therapy

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

In accordance with the study and examination regulations, attendance is compulsory for 75% of the sessions

**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)

During the short teaching period available, there is no intermediate formal assessment. However, the interactive nature of the exercises and visits allows students' knowledge and use of the information available to them to be monitored.

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

No such

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

At least 75% participation in the sessions.

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

Oral examination

**Examination requirements:**

(list of examination topics, subject areas of tests / examinations, lists of mandatory parameters, figures, concepts and calculations, practical skills)

**Examination list:****Questions for oral exams (final) – Obstetrics**

1. Conception, implantation and placentation
2. Obstetric and gynecologic evaluation
3. Endocrinology of pregnancy and parturition
4. Immunology of pregnancy
5. The human genome. Application to obstetrics and gynecology
6. Physiologic changes in pregnancy (cardiovascular-, respiratory system)
7. Physiologic changes in pregnancy (renal system, hormonal changes)
8. Hypertensive disorders in pregnancy. Eclampsia. HELLP-syndrome
9. Signs and symptoms of pregnancy
10. Pregnancy care, pregnancy counseling
11. Pregnancy and cardiovascular diseases
12. Pregnancy and diabetes mellitus. Gestational diabetes
13. Pregnancy and kidney diseases. Urinary tract infections
14. Pregnancy and gastrointestinal disorders
15. Pregnancy and hematologic disorders
16. Spontaneous abortion
17. Preterm labor and delivery
18. Intrauterine growth retardation (IUGR)
19. Uterine activity during labor. Characteristics of contractions, their anomalies. Treatment.
20. Dystocia caused by abnormal presentation and position
21. Dystocia caused by abnormalities of fetal structure or maternal pelvic alterations
22. Stages of delivery. Management of the first and second stage
23. Stages of delivery. Management of the third and fourth stage
24. Preparation for delivery. Obstetric anesthesia
25. Induction and augmentation of labor
26. Cephalopelvic disproportion and its consequences
27. Breech presentation
28. Malpresentations
29. Anomalies of rupture of membranes
30. Placenta previa. Other placental abnormalities
31. Multiple gestation
32. Placental abruption
33. Amniotic fluid and its disorders. Polyhydramnios and oligohydramnios
34. Postpartum hemorrhage. Inversio uteri
35. Lesions of the birth canal. Uterine rupture
36. Infectious diseases in pregnancy. Bacterial and parasite infections
37. Infectious diseases in pregnancy. Viral infections
38. Intrauterine fetal death. Postterm pregnancy
39. Detection of fetal jeopardy during pregnancy
40. Detection of fetal distress during labor
41. Prenatal genetic counseling (chorionic villus sampling, amniocentesis, cordocentesis)
42. Genetic counseling – Teratology
43. Licit and illicit drug use in pregnancy
44. Obstetrical examinations
45. Ultrasound diagnosis during gestation
46. Physiologic puerperium
47. Pathologic puerperium. Puerperal sepsis
48. Management of the newborn after delivery
49. Hemolytic disease. Rh isoimmunisation
50. Respiratory problems of newborns (resuscitation)
51. Main forms of congenital malformations
52. Obstetric operations. Cesarean section (indications)
53. Placenta and the umbilical cord. Presentation and prolapse of the umbilical cord
54. Obstetric statistics
55. The placenta
56. Anatomy of the bony female pelvis and the fetal skull
57. The mechanism of normal labor
58. Breast feeding
59. Pregnancy complicated by surgical diseases (appendicitis, ileus, cholelithiasis)
60. Advices during pregnancy

**Questions for oral exams (final) – Gynecology**

1. Anatomy of female genitalia
2. Development of female genitalia
3. Endocrinology of female reproductive system during, before and after reproductive stage of life
4. Primary amenorrhea

5. Secondary amenorrhea
6. Stein-Leventhal syndrome (PCOS)
7. Dysfunctional uterine bleeding
8. Dysmenorrhea. Premenstrual tension
9. Chromosomal abnormalities (Turner syndrome, Klinefelter-syndrome)
10. Causes of infertility. The infertile couple
11. Examinations and treatment in infertility
12. Hormonal contraception. Intrauterine devices
13. Barrier and chemical contraceptives. Natural contraceptive methods
14. Puberty
15. Pediatric gynecology
16. Perimenopause
17. Inflammatory disorders of the vulva and vagina
18. Sexually transmitted diseases in female
19. Benign lesions of the vulva and vagina
20. Malignant tumors of the vulva and the vagina
21. Etiology and precancerous states of cervical cancer
22. Symptoms, signs and screening of cervical cancer
23. Staging and therapy of cervical cancer. Pathology
24. Benign diseases of the uterus
25. Etiology and precancerous states of corporal cancer (hyperplasias)
26. Symptoms, signs and screening of corporal cancer
27. Staging and therapy of corporal cancer. Pathology
28. Functional cysts of ovaries
29. Benign neoplasms of ovaries
30. Etiology, clinical picture and screening of ovarian tumors
31. Staging and therapy of ovarian neoplasms. Pathology
32. Endometriosis and adenomyosis
33. Normal and abnormal positions of the vagina and uterus (genital prolapse) and their treatment
34. Urinary incontinence
35. Urinary tract infections
36. Pelvic inflammatory disease
37. Pelvic pain
38. Ectopic pregnancy
39. Malformations of the genital tract
40. Anomalies of sexual differentiation
41. Breast diseases
42. Breast cancer
43. Human sexuality
44. Gynecologic operation techniques (D and C, conisation, hysterectomy, hysteroscopy)
45. Virilism and hirsutism
46. Hydatidiform mole
47. Choriocarcinoma
48. Principles of cancer therapy

**Method and type of grading:**

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

**Final exam mark 100%**

**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:**

Essentials of Obstetrics and Gynecology N.F. Hacker and J.G. Moore 5<sup>th</sup> Edition  
 Obstetrics by Ten Teachers 20<sup>th</sup> Edition  
 Gynecology by Ten Teachers 20<sup>th</sup> Edition

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

**Signature of the director of the host institution:**

**Date of submission:**

11<sup>th</sup> August 2023

