# REQUIREMENTS

**Semmelweis University, Faculty of General Medicine – single, long-cycle medical training programme**
**Name of the host institution (and any contributing institutions):** Department of Pediatrics Bókay Street Unit

**Name of the subject: Pediatrics**

**in English:** Pediatrics

**in German:**

**Credit value: 8**

**Semester: 9th and 10th**
*(as defined in the curriculum)*

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| **Total number of classes per week: 32** | **lectures: 14** | **practical lessons:** | **seminars: 18** |

**Type of subject:** **compulsory** optional elective
(PLEASE UNDERLINE AS APPLICABLE)

**Academic year: 2023/24**

**Language of instruction, for optional or elective subjects: english**

**Course code: AOKGY1960_1A**
*(In the case of a new subject, this cell is filled in by the Dean's Office, following approval)*

**Course coordinator:** Prof Dr Attila Szabó

**Place of work, phone number:** 06-1-334-3186

**Position:** head of department

**Date and number of habilitation:** Budapest, June 7.2010. , No: 310

**Objectives of the course and its place in the medical curriculum:**
To understand the typical symptoms and common diseases in pediatrics, to master theoretical and practical knowledge

**Place of instruction (address of lecture hall or seminar room etc.):**
Department of Paediatrics:
1083 Budapest, Bókay János street 53. 2nd floor Koós room
1083 Budapest, Bókay János street 54. Lecture hall
1094 Tűzoltó street 7. Lecture room
SKILL simulation center: 1096 Budapest, Ernő str. 7.

**Competencies acquired through the completion of the course:**
To be able to recognize childhood illnesses and treat them in a basic level

**Prerequisites for course registration and completion:**
Internal Medicine I., Laboratory medicine, Medical imaging

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

Not applicable

**Student headcount conditions for starting the course (minimum, maximum) and method of student selection:**
Based on registration in Neptun, maximum 24 people per five-week course.

**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.)*

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| | | **1.week** |
| | | **Monday** |
| **1** | 8:45-9:15 | Seminar: Introduction to Pediatrics, Development and growing (Szabó Attila) |
| **2** | 9:15-10:15 | Seminar: Introduction (Krikovszky Dóra) |
| **3** | 10:30-11:15 | Seminar: Physical examination (Arató András) |
| **4** | 11:15-12:00 | Seminar: Communication in Pediatrics (Arató Andras) |
| **5** | 12:45-13:30 | Practice (Horváth Orsolya,Világos Eszter, Berta Laszlo, Muzslay Eszter) |
| **6** | 13:30-14:15 | |
| **7** | 14:30-15:15 | Practice (Dezsőfi Antal, Zsidegh Petra, Horváth Erzsébet, Berta László) |
| **8** | 1515-16:00 | |
| | | **Tuesday** |
| **9** | 8:45-9:15 | Seminar: Gastroenterology (Cseh Áron) |
| **10** | 9:15-10:15 | Seminar: Gastroenterology (Arató András) |
| **11** | 10:30-11:15 | Seminar: Development, screening, immunisation (Bence Zsófia) guest lecturer |
| **12** | 11:15-12:00 | Seminar: Radiology (Várkonyi Ildiko) |
| **13** | 12:45-13:30 | Practice (Kardics Kinga, Kiss András, Hérák Benjámin, Prehoda Bence) |
| **14** | 13:30-14:15 | |
| **15** | 14:30-15:15 | Practice (Legeza Balázs, Világos Eszter, Kincs Judit, Sallay Péter) |
| **16** | 1515-16:00 | |
| | | **Wednesday** |
| **17** | 8:45-9:15 | Seminar: Endocrinology (Luczay Andrea) |
| **18** | 9:15-10:15 | Seminar: Diabetology (Tóth-Heyn Péter) |
| **19** | 10:30-11:15 | Seminar: Pediatric emergencies (Horváth Klára/ Legeza Balázs/ Ádámi Lilla) |
| **20** | 11:15-12:00 | |
| **21** | 12:45-13:30 | Practice (Tölgyesi Andrea, Vörös Péter, Krikovszky Dóra, Legeza Balázs) |
| **22** | 13:30-14:15 | |
| **23** | 14:30-15:15 | Practice (Arató András, Farkas Kristóf, Becsei Dóra, Zsidegh Petra) |
| **24** | 1515-16:00 | |
| | | **Friday** |
| **25** | 8:45-9:15 | Seminar: Resuscitation (Legeza Balázs) |
| **26** | 9:15-10:15 | Seminar: Case reports (Balogh Ádám) |
| **27** | 10:30-11:15 | Seminar: Pulmonology (Németh Ágnes/ Czövek Dorottya/ Krikovszky Dóra) |
| **28** | 11:15-12:00 | |
| **29** | 12:45-13:30 | Practice (Tölgyesi Andrea, Farkas Kristóf, Becsei Dóra, Prehoda Bence) |
| **30** | 13:30-14:15 | |
| **31** | 14:30-15:15 | Seminar: Case reports (Bojtár Zsüliett) |
| **32** | 1515-16:00 | Seminar: Case reports (Kincs Judit) |
| | | **2.week** |
| | | **Monday** |
| **33** | 8:45-9:15 | Seminar: Neonatology (Seri István) |

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| **34** | 9:15-10:15 | | |
| **35** | 10:30-11:15 | Seminar: Neonatology (Szabó Miklós) | |
| **36** | 11:15-12:00 | Seminar: Cardiology (Horváth Erzsébet/ Tölgyesi Andrea/ Bokodi Géza) | |
| **37** | 12:45-13:30 | Practice (Dezsőfi Antal, Kincs Judit, Horváth Erzsébet, Muzslay Eszter) | |
| **38** | 13:30-14:15 | | |
| **39** | 14:30-15:15 | Seminar: When should we think about primary immunodeficiencies? (Malik Anikó) | |
| **40** | 1515-16:00 | | |
| | | **Tuesday** | |
| **41** | 8:45-9:15 | Seminar: Surgery of facial developmental disorders (Nagy Krisztián) | |
| **42** | 9:15-10:15 | Seminar: Introd. to paed. otorhinolaryngology (Balogh Illés) | |
| **43** | 10:30-11:15 | Seminar: Infectious diseases (Kiss András/ Kardics Kinga) | |
| **44** | 11:15-12:00 | | |
| **45** | 12:45-13:30 | Practice (Kiss András, Világos Eszter, Horváth Orsolya, Dobi Mariann) | |
| **46** | 13:30-14:15 | | |
| **47** | 14:30-15:15 | Practice (Bojtár Zsüliett, Mikes Bálint, Cseh Áron, Hérák Benjámin) | |
| **48** | 1515-16:00 | | |
| | | **Wednesday** | |
| **49** | 8:45-9:15 | Seminar: Surgery (Vörös Péter) | |
| **50** | 9:15-10:15 | | |
| **51** | 10:30-11:15 | Seminar: Gastroenterology/Hepatology (Dezsőfi Antal/ Arató András/ Vojnisek Zsuzsanna) | |
| **52** | 11:15-12:00 | | |
| **53** | 12:45-13:30 | Practice (Végh Anna, Vörös Péter, Kardics Kinga, Kiss András) | |
| **54** | 13:30-14:15 | | |
| **55** | 14:30-15:15 | Practice (Arató András, Zsidegh Petra, Végh Anna) | |
| **56** | 1515-16:00 | | |
| | | **Friday** | |
| **57** | 8:45-9:15 | Seminar: Neurology (Farkas Viktor) | |
| **58** | 9:15-10:15 | | |
| **59** | 10:30-11:15 | Seminar: Nephrology (Reusz György/ Mikes Bálint/ Sallay Péter) | |
| **60** | 11:15-12:00 | | |
| **61** | 12:45-13:30 | Practice (Hives Virág, Beliczai Gabriella, Tölgyesi Andrea, Berta László) | |
| **62** | 13:30-14:15 | | |
| **63** | 14:30-15:15 | Seminar: Case report (Vicenc Bonet Mateu) | |
| **64** | 1515-16:00 | Seminar: Case reports (Farkas Ferenc Balázs) | |
| | | **3.week** | |
| | | **Monday** | |
| **65** | 8:45-9:15 | Seminar: Metabolic disorders (Zsidegh Petra) | |
| **66** | 9:15-10:15 | | |
| **67** | 10:30-11:15 | Seminar: Neurology (Dobner Sára/ Farkas Viktor/ Farkas Kristóf/ Liptai Zoltán) | |
| **68** | 11:15-12:00 | | |
| **69** | 12:45-13:30 | Seminar: Microbiom (Arató András) | |
| **70** | 13:30-14:15 | Seminar: Laboratory diagnosis (Kenesei Éva) | |
| **71** | 14:30-15:15 | Practice (Dezsőfi Antal, Prehoda Bence, Horváth Erzsébet, Legeza Balázs) | |
| **72** | 1515-16:00 | | |
| | | **Tuesday** | |
| **73** | 8:45-9:15 | Seminar: Genetic disorders (Tory Kálmán) | |
| **74** | 9:15-10:15 | | |
| **75** | 10:30-11:15 | Seminar: Endocrinology/Diabetology (Körner Anna/Halász Zita/ Bertalan Rita/ Gács Zsófia/ Liptovszky Janka) | |
| **76** | 11:15-12:00 | | |
| **77** | 12:45-13:30 | Practice (Bojtár Zsüliett, Perneczki Andrea, Kincs Judit, Sallay Péter) | |

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| **78** | 13:30-14:15 | |
| **79** | 14:30-15:15 | Practice (Dobi Marianna/ Szász Barbara/ Brandt Ferenc/ Szakmár Enikő/ Mahdi Leina) |
| **80** | 1515-16:00 | |
| | | **Wednesday** |
| **81** | 8:45-9:15 | Seminar: Cardiology (Horváth Erzsébet) |
| **82** | 9:15-10:15 | |
| **83** | 10:30-11:15 | Seminar: Surgery/Traumatology (Vörös Péter) |
| **84** | 11:15-12:00 | Seminar: Surgery/Traumatology (Jenővári Zoltán) |
| **85** | 12:45-13:30 | Practice (Világos Eszter, Vörös Péter, Herák Benjámin, Dobi Mariann) |
| **86** | 13:30-14:15 | |
| **87** | 14:30-15:15 | Practice (Cseh Áron, Farkas Kristóf, Kiss Tamás, Legeza Balázs) |
| **88** | 1515-16:00 | |
| | | **Friday** |
| **89** | 8:45-9:15 | Seminar: Case report (Kincs Judit) |
| **90** | 9:15-10:15 | Seminar: Case report (Elekes Iringó/ Becsei Dóra) |
| **91** | 10:30-11:15 | Seminar: Dermatology (Kárpáti Sarolta) |
| **92** | 11:15-12:00 | Seminar: Immunology (Constantin Tamás/ Horváth Zsuzsanna/ Ponyi Andrea) |
| **93** | 12:45-13:30 | Practice (Tölgyesi Andrea, Agócs Róbert, Kiss Tamás, Legeza Balázs) |
| **94** | 13:30-14:15 | |
| **95** | 14:30-15:15 | Seminar: Case report (Balogh Ádám) |
| **96** | 1515-16:00 | Seminar: Case report (Sallay Péter) |
| | | **4.week** |
| | | **Monday** |
| **97** | 8:45-9:15 | Seminar: Child psychiatry (Pászthy Bea) |
| **98** | 9:15-10:15 | |
| **99** | 10:30-11:15 | Seminar: Child psychiatry (Pászthy Bea) |
| **100** | 11:15-12:00 | |
| **101** | 12:45-13:30 | Practice (Dezsőfi Antal, Vörös Péter, Horváth Erzsébet, Farkas Kristóf) |
| **102** | 13:30-14:15 | |
| **103** | 14:30-15:15 | Practice (Zsidegh Petra, Krikovszky Dóra, Kincs Judit) |
| **104** | 15:15-16:00 | |
| | | **Tuesday** |
| **105** | 8:45-9:15 | Seminar: Radiology (Várkonyi Ildikó) |
| **106** | 9:15-10:15 | |
| **107** | 10:30-11:15 | Seminar: Genetics/Inborn error of metabolism (Fekete György/Tory Kálmán/ Zsidegh Petra/ Lengyel Anna/ Kovács Árpád) |
| **108** | 11:15-12:00 | |
| **109** | 12:45-13:30 | Practice (Dobi Mariann, Kardics Kinga, Kis András, Kincs Judit, Muzslay Eszter) |
| **110** | 13:30-14:15 | |
| **111** | 14:30-15:15 | Practical exam (Krikovszky Dóra, Zsidegh Petra, Czövek Dorottya, Farkas Kristóf) |
| **112** | 1515-16:00 | |

**Related subjects due to interdisciplinary fields (both compulsory and elective) and potential overlaps between subjects:**
Propedeutics of internal medicine and all of the other speciality like pulmonology, neurology, etc.
**Elective courses:** Neonatology

**Attendance requirements; conditions under which students can make up for absences and the method of absence justification:**
It is compulsory to bring a phonendoscope for the practices, without a phonendoscope the practices will not be considered as completed. Students will record their attendance on an individual practical attendance sheet. Attendance is certified by the instructor with stamp and signature. Absence and

makeup are based on the Study and Examination Regulations

**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)
There is no such

**Number and type of assignments for individual work and the deadline for submission:**
There is no such

**Requirements to obtain the teacher's signature:**
Completion of required minimum internships and seminars and passing practical exam.

**Type of assessment:** *(comprehensive examination, end-term examination, term-grade, term-grade on a three-grade rating scale, coursework project, no examination)*
Semi final exam, consisting of practical and oral examinations.

**Exam requirements[5]:**

- **Practical examination:** bedside examination, during which the trainer asks you about your basic knowledge of practical paediatric patient care.

**Pediatrics 5th year semi final topic list**

1. Definitions in perinatology, gestational and mortality data, birth related concepts
2. Aspects of newborn care, Apgar scoring system
3. Physiologic growth, anthropometric features, normal development from newborn to school age
4. Nutrition and feeding of a healthy infant and child, nutrition and feeding of premature babies, energy needs. Physiologic growth of a healthy infant
5. Newborn and genetic screening, prevention
6. Chromosomal abnormalities
7. Neonatal respiratory adaptation disorders and lung disease
8. Neonatal infections
9. Neonatal jaundice
10. Complications of prematurity (BPD, ROP, NEC, IVH)
11. Sudden infant death syndrome (SIDS), infant mortality, demographic data
12. Neonatal and infant CPR (cardiaopulmonary resuscitation)
13. Meconium ileus, intestinal atresia, pyloric stenosis, diaphragmatic hernia
14. Ileus, intussusception, volvulus, incarcerated hernia, appendicitis.
15. Obstipation. Hirschsprung disease.
16. Testicular and ovarian torsion. Cryptorchism.
17. Coagulopathies
18. Anaemia: signs and symptoms and evaluation
19. Leukaemia.
20. Prevention of infectious diseases. Vaccination
21. Signs of sepsis. Management of sepsis in the first few hours
22. Herpes virus infections
23. Measles, rubella, scarlet fever
24. Systemic autoimmune disease
25. Allergic disease in infancy and childhood. Definition of atopy
26. Diseases affecting the ear
27. Rhinitis, adenoiditis, tonsillitis, bronchitis.
28. Pneumonia. Age related most common pathogens
29. Cystic fibrosis.

30. Obstructive bronchitis, asthma bronchiale, acute subglottic laryngitis
31. Alarming signs of CNS diseases. Necessary examinations. Lumbar puncture
32. Inflammatory disease of the nervous system
33. Facial nerve palsy
34. Seizures in childhood. Febrile seizure
35. Diabetes mellitus. Treatment of diabetic ketoacidosis
36. Congenital adrenal hyperplasia
37. Disease of the thyroid gland
38. Endocrine disorders of calcium and phosphate metabolism. Rickets.
39. Growth disorders (short stature, tall stature)
40. Disorders of pubertal growth and sexual maturation
41. Henoch-Schönlein purpura
42. Kawasaki syndrome, MISC.
43. Urinary tract infection. (localization, course of the disease, treatment, complications)
44. Congenital disorders of the kidney and urinary tract
45. Glomerular kidney disease
46. Nephrosis syndrome
47. Cyanotic congenital heart disease
48. Acyanotic congenital heart disease
49. Malabsorption. Celiac disease
50. Cholestatic liver disease in childhood
51. Hepatitis in childhood
52. Most common infectious enteritises
53. Inflammatory bowel disease: ulcerative colitis, Crohn's disease
54. Alarming signs of abdominal diseases
55. Enuresis. Polyuria and polydipsia
56. Oedema
57. Acid-base homeostasis, treatment of acid-base balance disorders
58. Fever, management of fever, antipyretics

**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.)*
Practical mark: passed/not passed
Final mark is assessed by a five-level mark (excellent (5), good (4), average (3), fair (2), unsatisfactory (1) based ont he oral examen.
No possibilities of and conditions for offered grades.

**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:**

Tom Lissauer, Graham Clayden: Illustrated Textbook of Paediatrics (Fourth Edition)

Seminars, Case Reports, Picture collection on Moodle:
https://itc.semmelweis.hu/moodle/course/view.php?id=2724

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

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

**Date of submission: 2023.04.30.**