

| COURSE INFORMATION | | | | | |
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| Course Title | Code | Semester | Lecture+Practice+Labrotory Hour | Credits | ECTS |
| Child Health and Pediatrics (Clinical Clerkship) | MED 402 | Phase 4/7-8 | 100+240 | 12 | 12* |

* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

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| Prerequisites | The student that joins this course, should completed Phase 1, 2 and 3 courses of medical faculty. |
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| Language of Instruction | English |
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| Course Level | Second Cycle including First Cycle Degree (One Tier Programme) |
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| Course Type | Compulsory |
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| Course Coordinator | Prof. Meltem Uğraş, MD. |
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| The instructors | <p>Hülya Sariçoban, MD. Prof. Filiz Bakar, MD. Prof. Sabri Kemahlı, MD. Prof. Haluk Topaloğlu, MD. Prof. Elif Sağsak, MD. Assist. Prof. Mustafa Berber, MD. Assist. Prof. Çetin Timur, MD. Assist. Prof. Endi Romano, MD. Assist. Prof. Seyhan Perihan Çobanoğlu Saf, MD. Assist. Prof. Coşkun Saf, MD. Assist. Prof. Nevin Yalman, MD. Assist. Prof. Asım Yörük, MD. Assist. Prof. Çiğdem Yanar Ayanoğlu, MD. Lecturer Fatma Tülin Şimşek, MD. Lecturer Burçin Yorgancı, MD. Lecturer Büşra Çağlar, MD. Lecturer Bilge Atlı, MD. Lecturer Erdem Toprak, MD. Lecturer İsmet Düşmez, MD. Lecturer</p> |
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| Assistants | - |
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| Goals | The course aims to equip the clerkship attendees with the necessary knowledge and skills on the evaluation of healthy and sick child, making diagnosis and treating them. |
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| Learning Outcomes <i>At the end of this clerkship, the student should be able to:</i> | Program Learning Outcomes | Teaching Methods | Assessment Methods |
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| 1. take detailed, relevant history of child and his/her family, perform intravenous/intramuscular/subcutaneous injections, collect venous blood sample, vaccinate children, | 1.1.3., 1.1.6., | 1,2,3 | A,C |
| 2. perform detailed Physical Examination of child and neonate, considering special features related to age of Patient, | 1.1.3., 1.1.6., | 1,2,3 | A,C |
| 3. assess physical-motor-mental development of healthy child,. | 1.1.3., 1.1.6., 1.1.9., | 1,2,3 | A,C |
| 4. assess anthropometric evaluation in proper techniques, including percentile charts, | 1.1.12, 1.2.3., 2.1.1., 2.2.1., 2.2.2., | 1,2,3 | A,C |
| 5. collect pharyngeal swab, fecal and urine cultures, | 1.1.3., | 1,2,3 | A,C |
| 6. supply basic life support to neonates and children, | 1.1.5., 1.1.7., 1.1.9., | 1,2,3 | A,C |
| 7. evaluate results of peripheral blood smear, urine test and sediment, arterial blood gas, complete blood count, pediatric ECG, serum electrolytes, renal function tests, hepatic function tests and thyroid function tests, chest X-rays | 1.1.12., | 1,2,3 | A,C |
| 8. care umbilicus in newborn | 1.1.5., 1.1.7., 1.1.9., | 1,2,3 | A,C |
| 9. evaluate results of cerebrospinal fluid analysis, otoscopy and ophthalmoscopy, nebulizer use for patient, pulse oximetry, cardiac monitoring and ECG, measurement of blood glucose with a glucometer, application and follow up of phototherapy, pedigree construction | 1.1.12., | 1,2,3 | A,C |
| 10. observe and explain 10.1 lumbar puncture 10.2 bone marrow aspiration, 10.3 paracentesis, 10.4 exchange transfusion, | 1.1.12., | 1,2,3 | A,C |

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| <p>10.5 pulmonary function tests, 10.6 diagnostic and therapeutic endoscopy, 10.7 echocardiography, 10.8 application of prick test 10.9 endocrinological provocation and inhibition tests,</p> <p>11. assimilate principles of 11.1 respecting Patient rights and establishing well-balanced relations with Patients' relatives, 11.2 maintaining good relations with colleagues and teaching staff, and being analytical and research orientated, 11.3 maintaining good relations with health staff, 11.4 asking for consultation, 11.5 using written and on-line sources correctly, 11.6 giving clear and concise information about Patient's condition to Patient and family, 11.7 obeying infection control regulations when working in ward and outPatient clinics</p> | 2.5.2., | 1,2,3 | A,C |
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| Teaching Methods: | 1: Lecture, 2: Question-Answer, 3: Discussion |
| Assessment Methods: | A: Testing B: Presentation C: Homework |

| COURSE CONTENT | | |
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| Week | Topics | Study Materials |
| 1 | Introductory Session (Introduction to Pediatrics) | Materials for the course provided by the the instructor |
| 1 | Lecture History taking | Materials for the course provided by the instructor |
| 1 | Lecture Newborn Examination | Materials for the course provided by the instructor |
| 1 | Lecture Respiratory System Examination | Materials for the course provided by the instructor |
| 1 | Lecture Gastrointestinal and Genitourinary System Examination | Materials for the course provided by the instructor |
| 1 | Lecture Cardiovascular System Examination & Electrocardiographic Principles | Materials for the course provided by the instructor |
| 1 | Lecture Neonatal Hyperbilirubinemia | Materials for the course provided by the instructor |

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| 1 | Lecture Neurological Examination | Materials for the course provided by the instructor |
| 1 | Lecture Perinatal Asphyxia, Cerebral Palsy, | Materials for the course provided by the instructor |
| 1 | Lecture Pediatric Basic and Advanced Life Support | Materials for the course provided by the instructor |
| 1 | Lecture Pediatric Assessment in Pediatric Emergency Department | Materials for the course provided by the instructor |
| 1 | Lecture Approach to Nutrition | Materials for the course provided by the instructor |
| 1 | Lecture Malnutrition & Obesity | Materials for the course provided by the instructor |
| 1 | Lecture Prematurity, Postmaturity | Materials for the course provided by the instructor |
| 1 | Lecture Approach to Immun Deficiencies-1-2 | Materials for the course provided by the instructor |
| 1 | Lecture Growth, Development, and Growth Retardation 1-2 | Materials for the course provided by the instructor |
| 1 | Lecture Acute Rheumatic Fever and Infective Endocarditis | Materials for the course provided by the instructor |
| 1 | Lecture Tetanus, Diphtheria, Mumps, And Pertussis | Materials for the course provided by the instructor |
| 1 | Lecture Immunization Principles and Vaccination-1-2 | Materials for the course provided by the instructor |
| 1 | Lecture Atopic Dermatitis and Allergic Rhinitis | Materials for the course provided by the instructor |
| 1 | Lecture Connective Tissue Diseases and Vasculitic Syndromes | Materials for the course provided by the instructor |
| 2 | Lecture Basic Principles and Practice of Clinical Biochemistry-1-2 | Materials for the course provided by the instructor |
| 2 | Lecture Viral Paralytic Diseases | Materials for the course provided by the instructor |
| 2 | Lecture Metabolic Disorders in Newborn | Materials for the course provided by the instructor |
| 2 | Lecture Approach to Intrauterin Infections | Materials for the course provided by the instructor |
| 2 | Lecture Neonatal Resuscitation, and Neonatal Transport | Materials for the course provided by the instructor |
| 2 | Lecture Urinary Tract Infections and Tubulopathies | Materials for the course provided by the instructor |
| 2 | Lecture Hypophyseal Diseases | Materials for the course provided by the instructor |
| 2 | Lecture Hematology and Coagulation | Materials for the course provided by the instructor |
| 2 | Lecture Neonatal Respiratory Distress 1-2 | Materials for the course provided by the instructor |
| 2 | Lecture Acid-Base Disorders | Materials for the course provided by the instructor |
| 2 | Lecture Cystic Fibrosis and Wheezy Infant | Materials for the course provided by the instructor |
| 2 | Lecture Approach to Urticaria and Anaphylaxis | Materials for the course provided by the instructor |
| 2 | Lecture Peripheral Blood Smear Evaluation | Materials for the course provided by the instructor |

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| 2 | Lecture Hemopoetic Stem Cell and Transplantation & Cell Therapies | Materials for the course provided by the instructor |
| 2 | Lecture Intoxications | Materials for the course provided by the instructor |
| 2 | Lecture Malabsorption and Celiac Disease | Materials for the course provided by the instructor |
| 2 | Lecture Congestive Heart Failure | Materials for the course provided by the instructor |
| 2 | Lecture Evaluation of Endocrine Function | Materials for the course provided by the instructor |
| 2 | Lecture Diabetes Mellitus | Materials for the course provided by the instructor |
| 2 | Lecture Diseases of Myocardium and Pericardium | Materials for the course provided by the instructor |
| 3 | Lecture Sepsis and Meningococemia | Materials for the course provided by the instructor |
| 3 | Lecture Shock | Materials for the course provided by the instructor |
| 3 | Lecture GIS Bleeding | Materials for the course provided by the instructor |
| 3 | Lecture Constipation | Materials for the course provided by the instructor |
| 3 | Lecture Neonatal Infections | Materials for the course provided by the instructor |
| 3 | Lecture Approach to the Child with Fever and Fever of Unknown Origin 1-2 | Materials for the course provided by the instructor |
| 3 | Lecture Acute Gastroenteritis and Parasitosis | Materials for the course provided by the instructor |
| 3 | Lecture Lower Respiratory Tract Infections | Materials for the course provided by the instructor |
| 3 | Lecture Upper Respiratory Tract Infections | Materials for the course provided by the instructor |
| 3 | Lecture Inflammatory Bowel Diseases | Materials for the course provided by the instructor |
| 3 | Lecture Abdominal Pain and Peptic Diseases, H. pylori infection, Gastroesophageal Reflux | Materials for the course provided by the instructor |
| 3 | Lecture Congenital Hypothyroidism | Materials for the course provided by the instructor |
| 3 | Lecture Hypothyroidism-Hyperthyroidism | Materials for the course provided by the instructor |
| 3 | Lecture Urinalysis and Other Body Fluids | Materials for the course provided by the instructor |
| 3 | Lecture Hyperparathyroidism, Hypoparathyroidism | Materials for the course provided by the instructor |
| 3 | Lecture Calcium Metabolism | Materials for the course provided by the instructor |
| 3 | Lecture Hepatitis | Materials for the course provided by the instructor |
| 3 | Lecture Cirrhosis and Portal Hypertension | Materials for the course provided by the instructor |
| 3 | Lecture Maculopapular-Vesicular Diseases | Materials for the course provided by the instructor |
| 3 | Lecture Asthma | Materials for the course provided by the instructor |

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| 3 | Lecture Fluid and Electrolyte Disorders-1-2 | Materials for the course provided by the instructor |
| 3 | Lecture Approach to the Patient with Convulsion | Materials for the course provided by the instructor |
| 3 | Lecture <i>Coma and Stroke</i> | Materials for the course provided by the instructor |
| 4 | Lecture Diabetic Ketoacidosis | Materials for the course provided by the instructor |
| 4 | Lecture Haemoglobinopathies (Thalassemia and Sickle Cell Anemia) | Materials for the course provided by the instructor |
| 4 | Lecture Blood Transfusions and Complications | Materials for the course provided by the instructor |
| 4 | Lecture Cardiac Markers | Materials for the course provided by the instructor |
| 4 | Lecture Tuberculosis | Materials for the course provided by the instructor |
| 4 | Lecture Introduction to Anemia, Iron Deficiency Anemia and Nutritional Anemias | Materials for the course provided by the instructor |
| 4 | Lecture Hematological Disorders in Newborn | Materials for the course provided by the instructor |
| 4 | Lecture Nephrotic Syndrome | Materials for the course provided by the instructor |
| 4 | Lecture Neonatal Convulsions | Materials for the course provided by the instructor |
| 4 | Lecture Infections of CNS | Materials for the course provided by the instructor |
| 4 | Lecture Acute and Chronic Renal Failure | Materials for the course provided by the instructor |
| 4 | Lecture Vitamin Deficiencies and Rickets | Materials for the course provided by the instructor |
| 4 | Lecture Diagnostic Methods in Infectious Diseases | Materials for the course provided by the instructor |
| 4 | Lecture Introduction to Pediatric Oncology; Lymph Nodes and Abdominal Masses | Materials for the course provided by the instructor |
| 4 | Lecture Malignancy in Childhood | Materials for the course provided by the instructor |
| 4 | Lecture Congenital Heart Diseases | Materials for the course provided by the instructor |
| 4 | Lecture Acute Glomerulonephritis | Materials for the course provided by the instructor |
| 4 | Lecture Respiratory Failure | Materials for the course provided by the instructor |
| 4 | Lecture Inborn Errors of Metabolism- | Materials for the course provided by the instructor |
| 4 | Lecture Approach to the Dysmorphic Child and Common Genetic Disorder in Pediatrics | Materials for the course provided by the instructor |
| 4 | Lecture Hypertension | Materials for the course provided by the instructor |
| 2 | Practice (Immunization) | Materials for the course provided by the instructor |
| 2 | Practice (Growth and Development) | Materials for the course provided by the instructor |
| 3 | Practice (Vital signs) | Materials for the course provided by the instructor |

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| 4 | Practice (Chest X-RAY Evaluation) | Materials for the course provided by the instructor |
| 5 | Clinical Practice | Materials for the course provided by the instructor |
| 6 | Clinical Practice | Materials for the course provided by the instructor |
| 7 | Clinical Practice | Materials for the course provided by the instructor |
| 8 | Clinical Practice | Materials for the course provided by the instructor |
| 9 | Clinical Practice | Materials for the course provided by the instructor |
| 10 | Assessment Session | Materials for the course provided by the instructor |
| 2 | Program Evaluation Session Review of the Exam Questions, Evaluation of the Program | Materials for the course provided by the instructor |

| RECOMMENDED SOURCES | |
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| Textbook | 1-Neson Textbook of Pediatrics (Shared) |
| Additional Resources | Lecture notes |

ASSESSMENT

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| Question Types (Pencil-Paper Tests) | Proportion (in Pencil-Paper Tests) |
| Multiple Choice Questions | 40% |
| Total | 40 % |
| Other Assessment Methods and Tools | Proportion (in Pass/Fail Decision) |
| Structured Oral Exam (OE) | 40% |
| Objective Structured Clinical Exam (OSCE) | 18% |
| Logbook | 2% |
| Total | 60 % |
| Pass/Fail Decision | Proportion (in Pass/Fail Decision) |
| Pencil-Paper Tests | 40% |
| Other Assessment Methods and Tools | 60% |
| Total | 100 % |

| MATERIAL SHARING | |
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| Documents | Photocopy shareable. |
| Assignments | Not Shareable |
| Exams | Not shareable |

| COURSE'S CONTRIBUTION TO PROGRAM | | | | | | |
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| | PODG.1. Basic Professional Competencies | Contribution | | | | |
| | POD.1.1. Clinical Competencies | 1 | 2 | 3 | 4 | 5 |
| PO.1.1.1. | values preventive health services, offers primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, provides consultancy on these issues. | | | | | |
| PO.1.1.2. | employs a patient-centered approach in patient management. | | | | | X |
| PO.1.1.3. | recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions. | | | | X | |
| PO.1.1.4. | takes medical history from the applicant himself/herself or from the individual's companions. | | | | | |
| PO.1.1.5. | does general and focused physical and mental examination. | | | | X | |
| PO.1.1.6. | interprets findings in medical history, physical and mental examination. | | | | X | |
| PO.1.1.7. | employs diagnostic procedures that are used frequently at the primary health care level. | | X | | | |
| PO.1.1.8. | selects tests that have evidence-based high efficacy at the primary health care level and interprets results. | | | | | |
| PO.1.1.9. | makes clinical decisions using evidence-based systematic data in health care service. | | X | | | |
| PO.1.1.10. | performs medical interventional procedures that are used frequently at the primary health care level. | | | | | |
| PO.1.1.11. | manages healthy individuals and patients in the context of health care services. | | | | | |
| PO.1.1.12. | keeps medical records in health care provision and uses information systems to that aim. | | | | | X |
| | POD.1.2. Competencies related to Communication | | | | | |
| PO.1.2.1. | throughout his/her career, communicates effectively with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals, organizations and institutions. | | | X | | |
| PO.1.2.2. | collaborates as a team member with related organizations and institutions, with other professionals and health care workers, on issues related to health. | | | | X | |
| PO.1.2.3. | recognizes the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors. | | | | X | |
| PO.1.2.4. | communicates with all stakeholders taking into consideration the socio-cultural diversity. | | | | | X |
| | POD.1.3. Competencies Related to Leadership and Management | | | | | |
| PO.1.3.1. | manages and leads within the health care team in primary health care organization. | | | | | |

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| PO.1.3.2. | recognizes the principles of health management and health sector economy, models of organization and financing of health care services. | | | | | |
| PO.1.3.3. | recognizes the resources in the health care service, the principles for cost-effective use. | | | | | |
| | POD.1.4. Competencies related to Health Advocacy | | | | | |
| PO.1.4.1. | recognizes the health status of the individual and the community and the factors affecting the health, implements the necessary measures to prevent effects of these factors on the health. | | | | | |
| PO.1.4.2. | recognizes and manages the health determinants including conditions that prevent access to health care. | | | | | |
| | POD.1.5. Competencies related to Research | | | | | |
| PO.1.5.1. | develops, prepares and presents research projects | | | | | |
| | POD.1.6. Competencies related to Health Education and Counseling | | | | | |
| PO.1.6.1. | provides consultancy services and organizes health education for the community to sustain and promote the health of individual and community. | | | | | |
| | PODG.2. Professional Values and Perspectives | | | | | |
| | POD.2.1. Competencies related to Law and Legal Regulations | | | | | |
| PO.2.1.1. | performs medical practices in accordance with the legal framework which regulates the primary health care service. | | | | | X |
| | POD.2.2. Competencies Related to Ethical Aspects of Medicine | | | | | |
| PO.2.2.1. | recognizes basic ethical principles completely, and distinguishes ethical and legal problems. | | | | | X |
| PO.2.2.2. | pays importance to the rights of patient, patient's relatives and physicians, and provides services in this context. | | | | | X |
| | POD.2.3. Competencies Related to Social and Behavioral Sciences | | | | | |
| PO.2.3.1. | relates historical, anthropological and philosophical evolution of medicine, with the current medical practice. | | | | | |
| PO.2.3.2. | recognizes the individual's behavior and attitudes and factors that determine the social dynamics of the community. | | | | | |
| | POD.2.4. Competencies Related to Social Awareness and Participation | | | | | |
| PO.2.4.1. | leads community with sense of responsibility, behavior and attitudes in consideration of individual behaviors and social dynamics of the community, and if there is a necessity, develops projects directed towards health care services. | | | | | |
| | POD.2.5. Competencies Related to Professional Attitudes and Behaviors | | | | | |
| PO.2.5.1. | displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems. | | | X | | |
| PO.2.5.2. | respects patients, colleagues and all stakeholders in health care delivery. | | | | | |
| PO.2.5.3. | displays the proper behavior in case of disadvantaged groups and situations in the community. | | | | | |
| PO.2.5.4. | takes responsibility for the development of patient safety and healthcare quality. | | | | | |
| PO.2.5.5. | evaluates own performance as open to criticism, realizes the qualifications and limitations. | | | | | |

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| | PODG.3. Professional Development and Self-Worth | | | | | |
| | PODG.3.1. Personal Development and Values | | | | | |
| PO.3.1.1. | embraces the importance of lifelong self-learning and implements . | | | | | |
| PO.3.1.2. | embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills. | | | | | |
| PO.3.1.3. | uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession. | | | | | |
| | POD.3.2. Competencies Related to Career Management | | | | | |
| PO.3.2.1. | recognizes and investigates postgraduate work domains and job opportunities. | | | | | |
| PO.3.2.2. | recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any requirement for further training and work experience. | | | | | |
| PO.3.2.3. | prepares a resume, and recognizes job interview methods. | | | | | |
| | POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health | | | | | |
| PO.3.3.1. | implements the rules of healthy living. | | | | | |
| PO.3.3.2. | displays appropriate behavior specific to work under stressful conditions. | | | | | |
| PO.3.3.3. | uses self-motivation factors. | | | | | |

| ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION | | | |
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| Activities | Quantity/ day | Duration (Hour) | Total Workload (Hour) |
| Course Duration (10 weeks) | 50 | 7 | 350 |
| Hours for off-the-classroom study (Pre-study, practice, review/week) | 44 | 0.5 | 22 |
| Homework | - | - | - |
| Exam | 1 | 1 | 1 |
| Total Work Load | | | 333 |
| Total Work Load / 30 (h) | | | 12.4 |
| ECTS Credit of the Course | | | 12 |