

COURSE INFORMATION					
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

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
Course Level	Second Cycle including First Cycle Degree (One Tier Programme)
Course Type	Compulsory
Course Coordinator	Hülya Sarıçoban, MD.PhD. Prof.
The instructors	<p><u>Yeditepe University Hospital</u> Hülya Sarıçoban, MD.PhD. Prof. (Head of the Department) Filiz Bakar, MD. Prof. Sabri Kemahlı, MD. Prof. Haluk Topaloğlu, MD. Prof. Nevin Yalman, MD. Prof. Elif Sağsak, MD. Assoc. Prof. Emine Manolya Kara, MD, Assoc. Prof. Mustafa Berber, MD. Assist. Prof. Çetin Timur, MD. Assist. Prof. Seyhan Perihan Çobanoğlu Saf, MD. Assist. Prof. Coşkun Saf, MD. Assist. Prof. Burçin Yorgancı Kale, MD. Assist. Prof. Çiğdem Yanar Ayanoğlu, MD. Lecturer Fatma Tülin Şimşek, MD. Lecturer Büşra Çağlar, MD. Lecturer Erdem Toprak, MD. Lecturer İsmet Düşmez, MD. Lecturer Fulya Coşkunol, MD. Lecturer</p> <p><u>Ministry Of Health İstanbul Training And Research Hospital</u> Serdar Cömert, MD, Prof. Didem Arman MD, Assoc. Prof. Gamze Özgürhan MD, Assoc. Prof. Nursu Kara MD. Speialist Lecturer</p>
Assistants	-
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.

Learning Outcomes <i>At the end of this clerkship, the student should be able to:</i>	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. take detailed, relevant history of child and his/her family, perform intravenous/intramuscular/subcutaneous injections, collect venous blood sample, vaccinate children,	1.1.1., 1.1.7., 2.1.3., 2.1.4., 2.2.1., 2.2.3., 3.1.3.	1,2,3	A,C
2. perform detailed Physical Examination of child and neonate, considering special features related to age of Patient,	1.1.1., 1.1.2., 1.1.3., 2.1.3.	1,2,3	A,C
3. assess physical-motor-mental development of healthy child,.	1.1.3., 1.1.7.	1,2,3	A,C
4. assess anthropometric evaluation in proper techniques, including percentile charts,	1.1.1., 1.1.4., 1.1.9.	1,2,3	A,C
5. collect pharyngeal swab, fecal and urine cultures,	1.1.4.	1,2,3	A,C
6. supply basic life support to neonates and children,	1.1.7.3.1.3.	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	1.1.1, 1.1.4., 1.1.6., 2.4.3., 3.1.3.	1,2,3	A,C
8. care umbilicus in newborn	1.1.1, 1.1.4.	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	1.1.1, 1.1.4., 1.1.6., 3.1.3., 3.2.3	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,	1.1.7., 3.1.1., 3.1.2., 3.1.3.	1,2,3	A,C

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, 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	1.1.5., 2.1.1.,2.2.2., 2.4.1., 2.4.2., 2.5.1., 2.5.2.,2.5.3., 3.2.1.	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		
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

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

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

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 4provided 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

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

ASSESSMENT

Question Types (Pencil-Paper Tests)	Proportion (in Pencil-Paper Tests)
Multiple Choice Questions	45%
Total	45 %
Other Assessment Methods and Tools	Proportion (in Pass/Fail Decision)
Structured Oral Exam (OE)	40%
Objective Structured Clinical Exam (OSCE)	13%
Logbook	2%
Total	55 %
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Pencil-Paper Tests	45%
Other Assessment Methods and Tools	55%
Total	100 %

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

COURSE CATEGORY

Expertise/Field Courses

COURSES CONTRIBUTION TO PROGRAM					
COMPETENCE AREA-1 / Professional Practices	Contribution				
COMPETENCE 1.1. Health Service Provider	1	2	3	4	5
Competency 1.1.1. Integrates knowledge, skills, and attitudes acquired from basic and clinical medical sciences, behavioral sciences, and social sciences to provide health services.					x
Competency 1.1.2. Demonstrates a biopsychosocial approach that considers the individual's sociodemographic and sociocultural background without discrimination based on language, religion, race, or gender in patient management.			x		
Competency 1.1.3. Prioritizes the protection and improvement of individuals' and community's health in the delivery of healthcare services.					x
Competency 1.1.4. Performs the necessary actions in the direction of maintaining and improving the state of health as considering the individual, social, social and environmental factors affecting health.					x
Competency 1.1.5. Provides health education to healthy/ill individuals and their families, as well as to other healthcare professionals, by recognizing the characteristics, needs, and expectations of the target audience.			x		
Competency 1.1.6. Demonstrates a safe, rational, and effective approach in the processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery.				x	
Competency 1.1.7. Performs interventional and/or non-interventional procedures safely and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation.					x
Competency 1.1.8. Provides healthcare services considering patient and employee health and safety.					
Competency 1.1.9. Considers changes related to the physical and socio-economic environment at both regional and global scales that affect health, as well as changes in the individual characteristics and behaviors of those who seek healthcare services.					x
COMPETENCE AREA-2 / Professional Values and Approaches	Contribution				
COMPETENCE 2.1. Adopting Professional Ethics and Principles	1	2	3	4	5
Competency 2.1.1. Considers good medical practices while performing the profession.					x
Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession.					
Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity.			x		
Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics.				x	
COMPETENCE 2.2. Health Advocate					
Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health.				x	
Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health.				x	
Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality.			x		

Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it.					
COMPETENCE 2.3. Leader-Manager					
Competency 2.3.1. Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.					
Competency 2.3.2. Utilizes resources in a cost-effective, socially beneficial, and compliant manner with regulations in the planning, implementation, and evaluation processes of healthcare services as the manager in the healthcare institution.					
COMPETENCE 2.4. Team Member					
Competency 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary.			x		
Competency 2.4.2. Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.			x		
Competency 2.4.3. Works collaboratively and effectively with colleagues and other professional groups in professional practice.			x		
COMPETENCE 2.5. Communicator					
Competency 2.5.1. Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations.			x		
Competency 2.5.2. Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics.			x		
Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes.			x		
COMPETENCE AREA-3 / Professional and Personal Development	Contribution				
COMPETENCE 3.1. Scientific and Analytical Approach	1	2	3	4	5
Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community.			x		
Competency 3.1.2. Accesses and critically evaluates current literature related to their profession.			x		
Competency 3.1.3. Applies evidence-based medicine principles in the clinical decision-making process.				x	
Competency 3.1.4. Uses information technologies to enhance the effectiveness of healthcare, research, and education activities.					
COMPETENCE 3.2. Lifelong Learner					
Competency 3.2.1. Manages effectively individual study processes and career development.				x	
Competency 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to professional situations, and adapting to changing conditions throughout professional career.					
Competency 3.2.3. Selects the right learning resources to improve the quality of health care and organizes the learning process.					x

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
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			373
Total Work Load / 30 (h)			12.4
ECTS Credit of the Course			12