COURSE UNIT DESCRIPTION

Course unit title	Code
General Paediatrics and Neonatology	

Lecturer(s)	Department(s)
Coordinating: Assoc. prof. Sigita Petraitienė Others: Prof. hab. dr. Arūnas Valiulis, Prof. dr. Augustina Jankauskienė, Prof. dr. Odilija Rudzevičienė, Prof. dr. Vaidotas Urbonas, Assoc. prof. dr. Gražina Kleinotienė, Assoc. prof. dr. Arūnas Liubšys, Assist. dr. Odeta Kinčinienė, Assist. dr. Rūta Samaitienė, Assist. dr. Sonata Šaulytė Trakymienė, Lect. dr. Robertas Kemežys, Young. assist. Skaistė Sendžikaitė, Young. assist. Karolis Ažukaitis, Lect. Ieva Adomaitė, Lect. Violeta Gulbinienė, Lect. Svetlana D. Kirlienė	Vilnius University, Medical Faculty, Clinic of Children Diseases, Santariškių str. 4, Vilnius

Cycle	Level of the course unit	Type of the course unit
cycle (integrated studies)		Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	Year III-IV, semester VI-VII;	English

Prerequisites and co requisites	
Prerequisites: A student must have completed the following courses: Human anatomy, Human histology, Human physiology, Biochemistry, Microbiology, Pharmacology, Propaedeutics of internal medicine.	**Co requisites (if any):** No

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
10	266	132	134
VI (spring semester, 3 year) 5 Credits - Propaedeutics 3 - Neonatology 2	135 80 53	66 40 26	67 40 27
VI (autumn semester, 4 year) 5 credits Paediatrics	133	66	67

Purpose of the course unit Programme competences to be developed
Aim – to learn growth and development of healthy child, peculiarities of anatomy and physiology and symptoms of most common lesions of different organ systems in any paediatric age. At the end of course student must be able to examine child in any age, to know possibilities and methods of laboratory and instrumental testing, to know diagnostics, treatment and prevention/prophylaxis of common (respiratory, digestive, urinary tract, endocryn and allergic) children diseases, to know morphological and functional maturity of newborn, adaptation, transitory states and the most common diseases of newborn.

Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
Generic competences **After successful graduation of program student will be competent to:**		
To act fairly and according to ethical obligations, think critically and self-critically, to evaluate an assessment within the scope of one's competence, and if it's necessary, ask for help, communicate and work in multicultural surround and international context, reach general goal	Lectures and seminars in classrooms, practical tasks at child's bedside in hospital and simulator classroom: groups discussion and case analysis	Continuing assessment during practical tasks in division of children diseases and simulator classroom: individual and team interview, oral case presentation and discussion, relational assessment of knowledge

Collect, critically, analyze and generate learning information, to learn, including independent life-long learning. Use knowledge in practice, cooperate with specialists of other fields and experts of other sciences	Practical tasks at child's bedside in hospital and simulator classroom: groups discussion and case analysis	Preparing of papers and review, case history analysis, assessment of awareness,
Subject-specific competences **After successful graduation of program student will be competent to:**		
Take history from children in any age and their relatives, use the data adequately for making clinical decisions.	Lectures and seminars in classrooms, practical tasks at child's bedside in hospital: case analysis, groups discussion and preparing of papers (academic paediatric clinical case history)	Oral case presentation, case analysis, paper assessment, at the end of VIth semester – examination at child's bedside as part of portfolio exam using individual colloquium in plan
Carry out physical examination of different age children, using skills of inspection, palpation, percussion and auscultation	Practical tasks at child's bedside in hospital: case analysis, groups discussion and preparing of papers (academic paediatric clinical case history)	Continuing assessment during practical tasks in division of children diseases, paper assessment, at the end of VIth semester – examination at child's bedside as part of portfolio exam using individual colloquium in plan
Make clinical judgement and decisions indicating laboratory and instrumental testing in clinical case, value their results	Practical tasks at child's bedside in hospital: case analysis, groups discussion, brain storming, and preparing of papers (academic paediatric clinical case history)	Continuing assessment during practical tasks in division of children diseases, paper assessment, at the end of VIth semester – examination at child's bedside as part of portfolio exam using individual colloquium in plan
Know diagnostics, treatment and prevention of the most common paediatric diseases (respiratory, gastrointestinal, urinary tract and allergy, endocryn)	Lectures and seminars in classrooms, practical tasks at child's bedside in hospital: case analysis, groups discussion and preparing of papers (academic paediatric clinical case history)	Continuing assessment during practical tasks in division of children diseases, paper assessment, written examination at the end of course as part of portfolio exam in plan
Cary out physical examination of healthy newborn, assess his maturity, reasonably suspect transitory conditions and the most common diseases of newborn, planning further tactics of examination and treatment if is necessary	Lectures and seminars in classrooms, practical tasks at child's bedside in hospital: case analysis, groups discussion and preparing of papers (academic paediatric clinical case history)	Continuing assessment during practical tasks in division of children diseases, paper assessment, written examination at the end of course as part of portfolio exam in plan
Recognize electrocardiogram of healthy child from one's with the most common heart diseases	Lectures, practical tasks at child's bedside in hospital, groups discussion	Written examination at the end of course as part of portfolio exam in plan

Topics	Contact work hours							Time and tasks of self-study	
	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	**Total contact hours**	**Self-study**	**Tasks**
Development of healthy child, growing, takes care on healthy and sick child. Psychical, movement and lingual development. Prevention of children diseases.			1	1			**2**	**3**	Preparing for practice about periods of children age, their specific illness. Preparing for practice about psychical, movement and lingual development with accent on characteristic age differences
Brest, formula, mixed and additional infant feeding; feeding of elder children, assessment of alimentary deficiency, children obesity	2		1	1			**4**	**41**	Preparing for practice in children feeding, terms and sequence of product introduction. Learning fundamentals of alimentary assessment in children
Clinical examination of different age child			1	1			**2**	**2**	Preparing for practice in methods of clinical examination according to paediatric principle "from simple to complicated and from conservative to invasive"
Paediatric anatomical and physiological peculiarities of different organ system, methods of physical examination, indications and method of laboratory and instrumental testing, semiotics	6		12	12			**30**	**29**	Preparing for practice in anyone organ system's about anatomo-physiologic peculiarities, clinical examination and assessment of testing results
Dentition and dental change; rickets, spasmophilia			1	1			**2**	**2**	Learning scheme of milk-tooth; prepare for practice about rickets, it's prevention, treatment and complications
Peculiarities of paediatric electrocardiogram	2						**2**	**2**	Renew methods of taking electrocardiogram in children and it's result interpretation
The most common paediatric respiratory diseases: classification, diagnostics, differentials, treatment and prevention	2		8	6			**16**	**16**	Preparing for practices about: the most common diseases of upper respiratory tract, acute diseases of lower respiratory tract with prevalent infective syndrome, acute diseases of lower respiratory tract with prevalent obstructive syndrome, about the most common chronic respiratory diseases in children accenting on etiopathogenesis, diagnostic, treatment and prevention according to different paediatric age
The most common paediatric digestive tract diseases: classification, diagnostics, differentials, treatment and prevention	2		4	5			**11**	**11**	Preparing for practices about diseases of children oesophagus and stomach, paediatric malabsorbtion and celiac, functional disorders of

									digestive tract and constipation accenting on etiopathogenesis, diagnostic, treatment and prevention according to different paediatric age
The most common allergies in paediatric patients: diagnostics, differentials, treatment and prevention	2		4	5			**11**	12	Preparing for practices about skin allergies, digestive allergies, allergic rhinitis and conjunctivitis accenting on etiopathogenesis, diagnostic, treatment and prevention according to different paediatric age. Preparing for practice about feeding of allergic child: menu, elimination and introduction of different products
The most common diseases of urinary tract and micturition disorders in children: diagnostics, differentials, treatment and prevention	4		4	5			**13**	**13**	Preparing for practices about children urinary infections and diseases manifesting with nephritic and nefrotic syndrome, accenting on etiopathogenesis, diagnostic, treatment and prevention according to different paediatric age
The most common diseases of endocrine system in children: diagnostics, differentials, treatment and prevention	4		4	5			**13**	**13**	To prepare about classification, diagnostics and therapy of pediatric diabetes mellitus, and diagnostics and treatment of acute complication - diabetic ketoacidosis. Pediatric obesity and type 2 diabetes. To prepare about acquired and congenital adrenocortical disturbances in children, diagnostic and treatment principles of pediatric adrenal diseases. Disorders of growth and puberty.
Maturity and physical development of newborn, transitory conditions of newborn, diagnostics, differentials, treatment and prevention of the most common diseases in newborns	8		8	10			**26**	**27**	Preparing for practice about newborn maturity, learning newborn reflexes. Preparing for practices about haemolytic, haemorrhagic diseases of newborns', the most common embryo and fetopathies, prenatal infection and neonatal sepsis, perinatal hypoxia. Preparing for practices about preterm newborn adaptation, care and feeding peculiarities.
Total	**32**		**48**	**52**			**132**	**134**	

Assessment strategy	**Weight (points)**	**Assessment period**	**Assessment criteria**

<table>
<tr><td>Practice testing and writing tests, including specially prepared tests at the end of VIth semester as part of portfolio examination in plan</td><td>Up to 20</td><td>During VI and VII semester period</td><td>Eight tests prepared using open and/or close questions. Total weight 20 points. Two tests from propaedeutics during spring semester – maximum 3 points each, one test from neonatology – maximum 4 points. Autumn semester – gastroenterology, pulmonology, allergy, nephrology, endocrynology – maximum 2 points each.</td></tr>
<tr><td>Physical examination at child’s bedside as part of portfolio exam in plan</td><td>Up to 10</td><td>At the end of VIth semester</td><td>Assessing ability of student to race case history and/or carry out physical examination of different age sick child and/or assessing results of laboratory or instrumental testing in subject. Assessment is made on a 10 point scale.</td></tr>
<tr><td>Academic paediatric clinical case history (“Case report”)</td><td>Up to 20</td><td>At the end of VIIth semester’s paediatric module</td><td>Paper assessment on a 20 point scale.</td></tr>
<tr><td>Computerised exam at the end of module</td><td>Up to 50</td><td>end of VIIth semester</td><td>Final score is a sum of all the points collected during two terms studies and the computerised exam. Final evaluation is possible only if all the assessments are done.</td></tr>
<tr><td>Final evaluation</td><td></td><td></td><td><table><tr><th>Final score (points)</th><th>Final evaluation (marks)</th></tr><tr><td>100-92</td><td>10 (excellent)</td></tr><tr><td>91-85</td><td>9 (very well)</td></tr><tr><td>84-75</td><td>8 (good)</td></tr><tr><td>74-65</td><td>7 (average)</td></tr><tr><td>64-55</td><td>6 (satisfactory)</td></tr><tr><td>54-50</td><td>5 (weak)</td></tr><tr><td><50</td><td>4 (unsatisfactory)</td></tr></table></td></tr>
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Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
Required reading				
Robert M. Kliegman	2019	Nelson Textbook of Pediatrics	21st edition	Available throw VU Subscribed Scientific Databases - ClinicalKey
Tom Lissauer Will Carroll	2018	Illustrated Textbook of Paediatrics'	5th edition	Available throw VU Subscribed Scientific Databases – Elsevier
Recommended reading				
Mark H. Swartz MD	2014	Textbook of Physical Diagnosis. Basic chapter 21, with references to other parts of textbook		Available throw VU Subscribed Scientific Databases -ClinicalKey
Learning website “ClinicalKey”	2016			Available throw VU library
Learning website “Medscape”	2016			Available throw VU library

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