



Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (SUBJECT)

General information

Module title: INTERNAL DISEASES	
Module type	_Obligatory/Facultative (select)
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medical and Dentistry
Specialty	-
Level of study	long-cycle
Mode of study	full-time/part-time
Year of studies, semester	Year 3 , semester V and VI
ECTS credits (incl. semester breakdown)	7 (3 & 4)
Type/s of training (Number of hours)	Lectures – (30 ; seminars -45 ; Practical classes - 45 (incl. 6 simulations)
Form of assessment*	<input type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input checked="" type="checkbox"/> final examination: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department /Clinic, Unit Module	Prof. dr hab. n. med. Marek Brzosko
Tutor or person responsible for the subject/module	dr n. med. Jacek Fliciński_ jacek.flicinski@pum.edu.pl
Name and contact data of the unit	Department of Rheumatology, Internal Medicine and Geriatrics SPSK1 ul. Unii Lubelskiej 1, 71-252 Szczecin Phone: 91 425 33 37 e-mail: kl.reumatologii@pum.edu.pl
Department's/Clinic's/Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/klinika-reumatologii-i-chorob-wewnetrznych
Language	Polish/English

* where applicable, replace ☐ into ☒

Other units teaching the course	Department of Endocrinology, Metabolic Diseases and Internal Medicine Head: prof. dr hab. Anhelli Syrenicz SPSK1 ul. Unii Lubelskiej 1, 71-252 Szczecin phone no.: 91 425 35 40 e-mail: klinendo@pum.edu.pl
	Department of Haematology and Transplantology, Head: prof. dr hab. Barbara Zdziarska SPSK1 ul. Unii Lubelskiej 1, 71-252 Szczecin phone no.: 91 425 33 47 e-mail: klinhem@pum.edu.pl
	Department of Cardiology Head: prof. dr hab. Jarosław Kaźmierczak SPSK 2 al. Powstańców Wlkp. 72, 70-111 Szczecin Phone no.: 91 466 13 78 e-mail: kardio@pum.edu.pl Person responsible for the subject: prof. dr hab. Edyta Płońska-Gościńskiak edytaplonskagoscińskiak@life.pl /914661252
	Department of Gastroenterology Head: prof. dr hab. Teresa Starzyńska SPSK1 ul. Unii Lubelskiej 1, 71-252 Szczecin phone no.: 91 425 32 11 e-mail: kgastro@pum.edu.pl
	Department of Nephrology, Transplantology and Internal Medicine, Head: prof. dr hab. Kazimierz Ciechanowski SPSK 2 al. Powstańców Wlkp. 72, 70-111 Szczecin Phone no. 91 466 11 96 e-mail: kazcie@pum.edu.pl
	Department of Clinical and Molecular Biochemistry Head: prof. dr hab. Andrzej Ciechanowicz SPSK 2 al. Powstańców Wlkp. 72, 70-111 Szczecin Phone no.: 91 466 14 90 e-mail: aciech@pum.edu.pl

Detailed information

Module objectives		Transfer of basic knowledge of internal diseases. The objective of the course is to present the clinical picture, diagnosis, differentiation and preventive treatment of the most common internal diseases. Clinical classes are designed to improve the skills of taking medical history and physical examination of patients. Students will learn how to interpret the results of diagnostic tests (including imaging, laboratory and microscopic examinations, ECG records), recognize disease entities. Students also learn about the manifestations of internal diseases within the oral cavity (e.g. reflux disease, Crohn's disease, Leśniowski-Crohn's disease, thyroid and parathyroid diseases, hypercortisolemia, acromegaly, diabetes mellitus, in pregnant women) and the influence of internal diseases and their treatment on dental problems as well as planning and carrying out dental procedures.
Prerequisite /essential requirements	Knowledge	Knowledge of the development, structure and function of the human organism in normal and pathological conditions based on knowledge of anatomy, physiology, pathophysiology, histopathology acquired in earlier stages of education
	Skills	Assessment of the patient's psychosomatic condition
	Competences	Self-education habit; teamwork.

Description of the learning outcomes for the subject/module			
No. of learning outcome	Student, who has passed the (subject)	SYMBOL (referring the standards)	Method of verification of learning outcomes*
W01	understands relationship between morphological anomalies and function of organs and systems, clinical symptoms and capacities of diagnostics and treatment	K_E.W01	Continuous assessment in practical classes; test examination
W02	knows basic methods of medical examination and importance of additional examination with regard to diagnosis, monitoring, prognosis and prophylaxis of organ and systemic disorders in particular its effect on oral cavity tissues	K_E.W02	Continuous assessment in practical classes; test examination
W03	knows etiopathogenesis and symptomatology of diseases of respiratory system, circulatory system, genitourinary system, hematopoietic system, immunological system, alimentary system, motor system and endocrine system with particular focus on disease entities whose symptoms occur in oral cavity	K_E.W03	Continuous assessment in practical classes; test examination
W04	knows symptoms of acute diseases of abdominal cavity, poisoning, symptoms of infection and septicemia	K_E.W07	continuous assessment in practical classes; test examination
W05	knows causes and mechanisms of circulatory and respiratory arrest and rules of resuscitation and post-resuscitation proceeding	K_E.W17	continuous assessment in practical classes; test examination
W06	knows life-threatening states	K_E.W18	continuous assessment in practical classes; test examination
W07	knows when to refer patient to hospital	K_E.W20	continuous assessment in practical classes; test examination
U01	performs differential diagnostics of most common diseases in adults	K_E.U01	continuous assessment in practical classes
U02	assesses and explains mental and somatic state of patient	K_E.U02	continuous assessment in practical classes
U03	plans diagnostics procedure and therapeutic management in case of most common diseases in adults	K_E.U03	continuous assessment in practical classes

U04	interprets results of laboratory examination	K_E.U04	continuous assessment in practical classes
U05	identifies correct and pathological structures and organs in additional imaging examination (X-ray, USG, computer tomography)	K_E.U05	continuous assessment in practical classes
U06	identifies life-threatening risk	K_E.U08	continuous assessment in practical classes
U07	explains and recognizes symptoms of shock and acute circulatory failure	K_E.U09	continuous assessment in practical classes
U08	diagnoses dermatosis and collagen disease exhibiting symptoms in area of oral mucosa	K_E.U16	continuous assessment in practical classes
U09	diagnoses diseases with enlargement of the neck and submandibular lymph nodes and infectious diseases, with particular emphasis on changes within the oral cavity	K_E.U18	continuous assessment in practical classes
U10	performs basic medical procedures: temperature measurement, pulse non-invasive blood pressure measurement, oxygen treatment, assisted and substitutive ventilation, insertion of oropharyngeal tube, preparation of operating field, hygienic and surgical hand decontamination, intravenous, intramuscular and subcutaneous injections, collection of peripheral venous blood, nasopharyngeal and skin swabs, simple strip tests, blood glucose measurement	K_E.U20	continuous assessment in practical classes
K01	shows habit of self-education and lifelong education	K_K01	continuous assessment in practical classes
K02	accepts the need for ethical standards and legal conditions relating to the exercise of the profession	K_K02	continuous assessment in practical classes
K03	can co-operate with team members and care about occupational safety	K_K03	continuous assessment in practical classes
K04	shows respect to human body	K_K04	continuous assessment in practical classes
K05	shows respect to patient, social groups and cares for their goodwill and safety	K_K05	continuous assessment in practical classes
K05	recognizes need for complete understanding of physical phenomena in aspects of human body	K_K06	continuous assessment in practical classes

K07	understands sense of responsibility for entrusted property	K_K07	continuous assessment in practical classes
K08	understands proper examiner/examined relationship	K_K08	continuous assessment in practical classes
K09	understands need for keeping professional secrecy and showing respect to patients' rights	K_K09	continuous assessment in practical classes

Table presenting LEARNING OUTCOMES in relation to the form of classes

No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulation	E-learning	Other forms
W01	K_E.W01	X	X		X	X		
W02	K_E.W02	X	X		X	X		
W03	K_E.W03	X	X		X	X		
W04	K_E.W07		X		X			
W05	K_E.W17		X		X			
W06	K_E.W18		X		X			
W07	K_E.W20		X		X			
U01	K_E.U01	X	X		X	X		
U02	K_E.U02				X			
U03	K_E.U03				X			
U04	K_E.U04	X	X		X			
U05	K_E.U05	X	X		X			
U06	K_E.U08				X	X		
U07	K_E.U09				X			
U08	K_E.U16				X			
U09	K_E.U18				X			
U10	K_E.U20				X			
K01	K_K01				X			
K02	K_K02		X		X			
K03	K_K03		X		X			
K04	K_K04		X		X			
K05	K_K05		X		X			

K05	K_K06		X		X			
K07	K_K07		X		X			
K08	K_K08		X		X			
K09	K_K09		X		X			

Table presenting TEACHING PROGRAMME Department of Rheumatology, Internal Medicine and Geriatrics			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes Table presenting LEARNING OUTCOMES in relation to the form of classes
Winter semester			
(E-learning) lectures			
TK 01	Systemic lupus erythematosus-diagnosis and treatment	1	W01, W02, W03, W06, W07
TK02	Antiphospholipid syndrome- diagnosis, treatment and preparation of a patient for dental procedures	1	W01, W02, W03, W06, W07
TK03	Necrotizing vasculitis	1	W01, W02, W03, W06, W07
TK04	Pneumonia	1	W01, W02, W03, W04, W05, W06, W07
TK05	Seronegative spondyloarthropathies	1	W01, W02, W03, W06, W07
Seminars			
TK 01	Basics of ECG 1 (physiological ECG recording, ventricular and atrial hypertrophy, changes in the ECG curve in ischaemic disease, dyslectrolytes)	1	W01, W02, U03
TK02	Basics of ECG 2 (cardiac rhythm and conduction disturbances)	1	W01, W02, U03
TK03	Chest pain, causes symptoms, treatment	1	W01, W02, W03, W04, W05, W06, W07
TK04	Bronchial asthma. Chronic obstructive pulmonary disease. Additional examinations of respiratory system.	1	W01, W02, W03, W04, W05, W06, W07
TK 05	Vascular diseases - venous thromboembolism	1	W01, W02, W03, W05, W06, W07
TK 06	Congenital and acquired heart defects. Imaging studies of the cardiovascular system	1	W01, W02, W03, W05, W06, W07
TK 07	Pleuritis, pneumothorax, pleural fluid	1	W01, W02, W03, W04, W05, W06, W07
TK 08	Haemorrhagic septicaemia	1	W01, W02, W03, W05, W06, W07
TK 09	Osteoporosis. Indications and contraindications for treatment with bisphosphonates	1	W01, W02, W03
TK 10	Reactive arthritis	1	W01, W02, W03
TK 11	Oral lesions in the course of vasculitis with special attention to Behcet's disease and Kawasaki disease	1	W01, W02, W03
TK 12	Gout	1	W01, W02, W03, W07
Practical classes			

TK 01	Learning of history taking and physical examination with assessment of somatic and mental state of a patient.	6	U01- U09, U10, K01, K02, K03, K04, K05, K06, K07, K08, K09
TK02	Planning and interpreting laboratory and imaging tests for differential diagnosis of internal diseases in individual cases. Discussion of treatment of selected diseases on the basis of the examined patients.	6	U01 , U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, K01, K02, K03, K04, K05, K07, K08, K09
Simulation			
E-learning			

Summer semester			
(E-learning) lectures			
TK 01	Rheumatoid arthritis with particular reference to temporomandibular joint inflammation	1	W01, W02, W03
TK02	Chronic obstructive pulmonary disease	1	W01-W03, W06, W07
Seminars			
TK 01	Sjögren's syndrome	1	W01, W02, W03
TK02	Systemic sclerosis	1	W01, W02, W03
TK03	Osteoarthritis	1	W01, W02, W03
TK04	Kidney and bladder cancer	1	W01, W02, W03, W06, W07
TK05	Endocarditis, myocarditis and pericarditis	1	W01- W07
TK06	Tumours of the respiratory system.	1	W01- W07
TK07	Laboratory diagnosis of internal diseases	1	W01, W02
TK08	Polymyositis and dermatomyositis	1	W01, W02, W03
TK09	Pain syndromes of soft tissues	1	W01, W02, W03
TK10	Pulmonary tuberculosis	1	W01, W02, W03, W04, W05, W06, W07
TK11	Osteoporosis. Indications and contraindications for treatment with bisphosphonates.	1	W01, W02
TK12	Modern therapies in internal diseases	1	W01, W02, W03
TK13	Skin and organ manifestations in the course of nodular arteritis and leukocytoclastic vasculitis	1	W01, W02, W03, W04, W05, W06, W07
TK14	Kidney stone disease	1	W01, W02, W03, W07
Practical classes			
TK01	Consolidation of history taking and physical examination with assessment of somatic and psychical condition of a patient. Analysis of pharmacotherapy of selected patients.	9	U01-U10, K01, K02, K03, K04, K05, K06, K07, K08, K09
TK02	Taking medical history and physical examination Planning and interpretation of laboratory and imaging examinations in order to perform differential diagnosis of internal diseases in individual cases. Discussing treatment of selected diseases on the basis of cases of examined patients.	10	U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, K01, K02, K03, K04, K05, K06, K07, K08, K09
Simulation			
	Performing emergency scenarios in internal diseases	6	U01-U10, K01- K09
E-learning			

Booklist: Department of Rheumatology, Internal Medicine and Geriatrics	
Obligatory literature:	
1.	Reumatologia kliniczna. Ed: Brzosko M, Wydawnictwo Pomorskiego Uniwersytetu Medycznego, Szczecin, 2010
2.	Interna Szczeklika 2019, Medycyna Praktyczna 2019 r.
Supplementary literature:	
1.	Reumatologia praktyczna. Ed: Włodzimierz Samborski, Marek Brzosko, Wydawnictwo ABC Wolters Kluwer, Warszawa 2011
2.	Reumatologia 2011/2012 nowe trendy. Ed: Wiland P, Wydawnictwo Termedia, Poznań 2012

Table presenting TEACHING PROGRAMME Department of Endocrinology, Metabolic Diseases and Internal Medicine			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes
Winter semester			
Lectures			
TK 01	Thyroid and parathyroid diseases	1	W01 W02 W03 W06 W07 U02 U04 U05 U06
TK02	Diabetes mellitus	1	W01 W02 W03 W06 W07 U02 U04 U05 U06
TK03	Diseases of hypothalamus and pituitary gland	1	W01 W02 W03 W06 W07 U02 U04 U05 U06
TK04	Diseases of adrenal glands	1	W01 W02 W03 W06 W07 U02 U04 U05 U06
TK05	Neoplastic diseases of the endocrine glands	1	W01 W02 W03 W06 W07 U02 U04 U05 U06
Seminars			
TK 01	Endocrine diseases with hypertension	2	W01 W07 U01 U04 U06
TK02	Biochemical and imaging diagnostics in endocrine diseases	2	W01 W07 U01 U04 U05 U06
TK03	Endocrine diseases with changes in head with special consideration of oral cavity.	2	W01 W02 W03 W07 U01 U02 U03 U04 U05
TK04	The influence of estrogens and progesterone on periodontal status in different periods of life in women. Periodontal diseases in pregnant women	2	W01 W02 W03 W07 U01 U02 U03 U04 U05
Practical classes			
TK 01	Taking medical history and physical examination Planning and interpretation of laboratory and imaging examinations. Differential diagnosis in the course of endocrine diseases. Planning of treatment in endocrine diseases on the basis of patients' cases.	2	W07, U1-U6,U10, K01, K02, K03, K04, K05, K07, K05, K08,K09,K08
Simulation			
E-learning			

Booklist: Department of Endocrinology, Metabolic Diseases and Internal Medicine	
Basic literature:	
Interna Szczeklika 2020, Piotr Gajewski, Andrzej Szczeklika, Wydawnictwo Medycyna Praktyczna, Kraków 2020.	

Macleod. Badanie kliniczne. G Douglas, C. Robertson. Wydawnictwo Erda Urban & Partner, Wrocław 2017
Dawidson Choroby Wewnętrzne. S.H. Ralston, M.W.J. Strachan, i.D. Penman, R.P. Hobson. Wydawnictwo Erda Urban & Partner, Wrocław 2020
Supplementary literature:
Badanie Kliniczne. Authors: Owen Epstein, David Perkin, David de Bono, John Cookson. pod red. Marek Sikorski, Anna Sikorska. Wyd. Czelej Lublin 2001, wyd.1
Badanie podmiotowe i przedmiotowe. The chapters included in the book were published in individual volumes of the “Wielka Interna” series edited by Adam Antczak, Michał Myśliwiec, Piotr Pruszczyk. Medical Tribune Polska, Warszawa 2012, wyd.1

Table presenting TEACHING PROGRAMME Department of Haematology and Transplantology			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes
Winter semester			
Lectures			
TK 01	Anaemias, blemishes and immunodeficiencies in dental treatment.	1	W01, W02, W03, W07
TK02	Leukaemias, Lymphomas and myelodysplastic syndromes.	1	W01, W02, W03, W06, W07,
TK03	Interpretation of haematological test results.	1	W01, W02
Seminars			
TK 01	Proliferative diseases of the hematopoietic system - clinical picture clinical picture including oral symptomatology, diagnosis, treatment and complications.	1	W01, W02, W03, W06, W07
TK02	Platelet and plasma septicaemia- clinical picture, planning and preparation for dental procedures	1	W01, W02, W03
Practical classes			
TK 01	Haematological patient: history, physical examination physical examination, analysis of diagnostic tests, differential diagnosis, treatment, complications of haematooncological treatment	2	U01, U02, U03, U04, U05, U06, U09, U10, K01, K02, K03, K04, K05, K06, K07, K08, K09
Simulation			
E-learning			

Booklist: Department of Haematology and Transplantology	
Basic literature:	
1. „Choroby wewnętrzne” pod red. prof. dr hab. Andrzeja Szczeklika, 2019	
2.	
Supplementary literature:	
1. „Podstawy hematologii” pod red. prof. dr hab. Anny Dmoszyńskiej, prof. dr hab. Tadeusza Robaka	
2. „Praktyka hematologiczna” pod red. Prof. Wiesława Jędrzejczaka, prof. Tadeusza Robaka, prof. Marii Podolak-Dawidziak	

Table presenting TEACHING PROGRAMME Department of Cardiology			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes
Winter semester			
Lectures			

TK01	Symptomatology and current standards for diagnosis and treatment of heart failure./. Diagnosis and treatment of coronary artery disease. Diagnosis and treatment of cardiac arrhythmias. Primary and secondary prevention of cardiovascular diseases./ Valvular defects - basics	5	W01,W02,U01,U10, K01,K02,K05
Seminars			
TK01	Cardiovascular prevention./hypertension	3	W01,W02,U01,U10, K01,K02,K05
Practical classes			
TK01	Diagnostics and treatment in cardiology	2	W01,W02,U01,U10, K01,K02,K05
Simulation			
E-learning			

Booklist: Department of Cardiology
Obligatory literature:
1. Andrzej Szczeklik Choroby wewnętrzne 2020, wydawnictwo “Medycyna Praktyczna”
Supplementary literature:
1. Współczesne obrazowanie serca w praktyce klinicznej. Forum ekspertów. Red. E. Płońska Via Medica 2016

Table presenting TEACHING PROGRAMME Department of Gastroenterology			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes Table presenting LEARNING OUTCOMES in relation to the form of classes
Winter semester			
Lectures			
TK 01	Large bowel cancer.	1	W01, W02, W03,W04
TK02	Reflex disease.	1	W01, W02, W03
TK03	Liver diseases. Cirrhosis of the liver.	1	W01, W02, W03. W04
TK04	Inflammatory bowel diseases	1	W01, W02, W03
Seminars			
TK 01	Jaundice. Pancreatic diseases	2	W01, W02, W03, W04
TK02	Modern tools in diagnostics and therapy of gastrointestinal diseases with special consideration of endoscopy	2	W01, W02, W03, W04

TK03	Diet as a potential medicine in gastrointestinal diseases. The role of diet in prevention and treatment of obesity and in cancer prevention.	2	W01, W02, W03, W04
Practical classes			
TK 01	Taking medical history and physical examination with assessment of patient's somatic and psychical condition. Planning of diagnostic and imaging examinations	1	U02- U04, U10, K01, K02, K03, K04, K05, K06, K07, K08, K09
TK02	Interpretation of the results obtained , making a differential diagnosis. Discussion of the treatment of selected diseases on the basis of the clinical data obtained and additional examinations.	1	U01, U03, U04, , U10, K01, K02, K03, K04, K05, K06, K07, , K09
Simulation			
E-learning			

Booklist: Department of Gastroenterology
Obligatory literature:
1. „Interna Szczeklik” 2019.Podręcznik Chorób Wewnętrznych” A.Szczeklik
2. „Interna Szczeklika . Mały podręcznik” 2020/2021
Supplementary literature:

Table presenting TEACHING PROGRAMME Department of Nephrology, Transplantology and Internal Medicine			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes Table presenting LEARNING OUTCOMES in relation to the form of classes
Winter semester			
Lectures			
TK 01	Nephrology diagnostics for dentistry.	1	W01, W02, W03
TK02	Infection of the urinary tract.	1	W01, W02, W03, W07
TK03	Acute renal failure.	1	W01, W02, W03, W06, W07
TK04	Chronic renal failure. Treatment Renal replacement therapy.	1	W01, W02, W03, W06, W07

Booklist:

Obligatory literature:
Textbooks as recommended by the Coordinator
Supplementary literature:
Textbooks as recommended by the Coordinator

Table presenting TEACHING PROGRAMME Department of Clinical and Molecular Biochemistry			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes Table presenting LEARNING OUTCOMES in relation to the form of classes
Winter semester			
Lectures			
TK 01	Hypertension.	1	W01, W02, W03
TK02	Metabolic syndrome.	1	

Booklist:
Obligatory literature:
1. Andrzej Szczeklik Choroby wewnętrzne 2020, wydawnictwo “Medycyna Praktyczna”
Supplementary literature:

Student's workload	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	120
Time spent on preparation to seminars/ practical classes	60
Time spent on reading recommended literature	30
Time spent on writing report/making project	
Time spent on preparing to colloquium/ entry test	
Time spent on preparing to exam	80
Other	
Student's workload in total	290
ECTS credits	7
Notes	

* Selected examples of methods of assessment

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test PM – multimedial presentation

other...