

SCHEDULE OF CLASSES
General information

CLASS name: RADIOLOGY	
Type of classes	Obligatory
PUM Department	Faculty of Medicine
Field of study	Medical
Specialty	Not applicable
Study level	uniform master's studies
Form of studies	stationary
Year of study / semester of study	Year IV, block
Number of assigned ECTS credits	6
Forms of conducting classes (number of hours)	Lectures 10 hours, seminars 35 hours, exercises 50 hours
Ways of verification and assessment of learning outcomes	<input type="checkbox"/> credit with a grade: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input checked="" type="checkbox"/> pass without grade <input type="checkbox"/> final exam: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input checked="" type="checkbox"/> oral
Unit manager	Prof. dr hab. Wojciech Poncyłjusz, med wojciech.poncyłjusz@pum.edu.pl

Didactic assistant professor or person responsible for the subject	Violetta Posio, MD, PhD (guardian of Polish students), violetta.posio@pum.edu.pl Dr hab. n. med. Marcin Sawicki (guardian of English-speaking students), msaw@pum.edu.pl
Name and contact details of the entity	Department of Imaging Diagnostics and Interventional Radiology zdori@pum.edu.pl tel. 91 4253434
Unit website	https://www.pum.edu.pl/wydzialy/wydzial-lekarski/zaklad-diagnostyki-obrazowej-i-radiologii-interwencyjnej/informacje-dla-studentow
Language of conducting classes	Polish English

Detailed information

Objectives of the classes	Getting to know the indications and contraindications for performing specific radiological procedures. Particular attention is paid to the advisability of performing a specific examination and the correctness of referring to diagnostic tests with the use of ionizing radiation	
Prerequisites for	Knowledge	Knowledge of the anatomy and the basics of pathology, which will help the student to understand the diagnostic methods used
	Skills	The ability to associate facts (symptoms)
	Social competences	Sensitivity to the patient's needs, friendliness, problem-solving in a team

LEARNING OUTCOMES

no. learning effect	A student who passed the CLASSES knows / knows / is able to:	SYMBOL (reference to) learning outcomes for the field of study	The method of verifying the effects Learning*
W01	<p>knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases requiring surgical intervention, taking into account the distinctiveness of childhood, including in particular:</p> <ul style="list-style-type: none"> and) acute and chronic diseases of the abdominal cavity, b) chest diseases, c) limb and head diseases, bone fractures and organ injuries 	K_F.W1	EU
W02	<p>knows the principles of qualifying and performing basic surgical procedures and invasive diagnostic and therapeutic procedures;</p>	K_F.W3	EU
W03	<p>has knowledge in the field of contemporary imaging studies, in particular knows:</p> <ul style="list-style-type: none"> and) radiological symptomatology of basic diseases, b) instrumental methods and imaging techniques used to perform therapeutic procedures, indications, contraindications and preparation of patients for particular types of tests <p>imaging and contraindications to the use of contrast agents</p>	K_F.W10	EU
W04	<p>knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases of the central nervous system in the field of:</p> <ul style="list-style-type: none"> and) swelling of the brain and its consequences, with particular emphasis on emergencies, b) other forms of intracranial tightness with their consequences, c) craniocerebral injuries, d) CSN vascular defects, e) CSN neoplastic tumors, <p>diseases of the spine and spinal cord</p>	K_F.W13	EU

TABLE OF PROGRAM CONTENTS			
no. program content	Program content	number of hours	Relation to learning outcomes for the CLASSES
UNIT			
Lectures			
TK01	Basics of ultrasound diagnostics	2	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK02	Fundamentals of MRI diagnostics	2	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK03	Fundamentals of X-ray diagnostics	2	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK04	Basics of diagnostics by computed tomography	2	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK05	Basics of interventional radiology	2	K_F.W3 K_F.W4 K_F.W10 K_F.U7
Seminars			
TK01	Imaging diagnosis of chest diseases	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK02	Imaging diagnosis of diseases of the abdominal cavity	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK03	Imaging diagnosis of breast diseases	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7

TK04	Imaging diagnostics of heart and vascular diseases	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK05	Imaging diagnosis of diseases of the musculoskeletal system	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK06	Imaging diagnostics of urinary tract diseases	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK07d	Imaging diagnostics in paediatrics	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK08	Diagnostic neuroradiology	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK09	Interventional neuroradiology	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK10	Interventional non-vascular radiology	2.5	K_F.W3 K_F.W4 K_F.W10 K_F.U7
Exercises			
TK01	X-ray diagnostics	11	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK02	Computed tomography	11	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK03	Magnetic resonance imaging	11	K_F.W3 K_F.W4 K_F.W10 K_F.U7

TK04	Ultrasound	11	K_F.W3 K_F.W4 K_F.W10 K_F.U7
TK05	Mammography	6	K_F.W3 K_F.W4 K_F.W10 K_F.U7

Recommended literature:
Basic literature
1. .RADIOLOGY Imaging diagnostics X-ray, CT, USG, MRI and nuclear medicine edited by B. Pruszyński
2. Ultrasound diagnostics edited by H Kramer and W. Dobriński
Supplementary literature
1. "Getting Started in Clinical Radiology. From Image to Diagnosis" George W. Eastman, Christoph Wald, Jane Crossin
2.

Student workload	
Form of student workload (participation in classes, activity, preparation of reports, etc.)	Student load [h]
	In the teacher's opinion (opinion)
Contact hours with the teacher	85
Preparation for exercises / seminar	110
Reading the indicated literature	120

Writing a report from the laboratory / exercises / preparation of a project / paper, etc.	0
Preparation for a test / postcard	120
Preparation for the exam	
Another	
Total student workload	435
ECTS credits	6
Comments	