

Annex 4 to regulation of Rector of the Jagiellonian University nr 12, February 15, 2012
Syllabus of the training module at the university level

Name of the Faculty	Faculty of Medicine Jagiellonian University Medical College
Name of the unit conducting the module	Department of Radiology
Name of the training module	Radiology
Module code	
Language of training	English
Education effects for the training module	
Type of training module (mandatory/facultative)	
Year of study	3-6
Semester	5 and 6
Name of the person leading the module	Prof. Andrzej Urbanik, MD PhD
Name of the person examining or granting a credit if it is not the person conducting the module	Prof. Andrzej Urbanik, MD PhD
Methods of performance	Seminars and practical exercises – classes requires direct participation of academic staff and students
Initial and additional requirements	
Type and number of class hours that require direct involvement both teacher and students, when such activities are provided for the module	60 HOURS: 4 hours of LECTURES, 46 hours of SEMINARS 10 hours of PRACTICAL EXERCISES
Number of ECTS credits allocated to the module	4
Balance of ECTS points	
Teaching methods applied	Lectures, seminars and exercises should teach the students the ability of using the help of diagnostically imaging methods in defining the morphological state of organs and systems and recognizing different diseases. With the support of picture illustrations and other didactic aids students should become acquainted with the diagnostically effectiveness of the following methods of picturing organs and their place in the course of diagnostic procedure. During the exercises the students should concentrate on settling indications and contradictions for individual examination considering the danger of ionizing radiation and the cost of examination. The activities are ended by an examination. TEACHING AIDS: A. X-ray films B. CT scans C. MR scans D. Ultrasound prints E. Slides
Methods for testing and evaluation criteria for learning outcomes achieved by students	Exam
Form and conditions for module passing, including the rules of admission to the exam, pass, and the form and condition for completion of the various activities within the scope of the module	Credit classes based on attendance at seminars and exercises
Training module content	Conventional Radiology Laboratory, Diagnostic imaging of the lungs and mediastinum. Basic principles of radiological physics. Radiological and radiobiological protection. Contrast media. Diagnostic imaging of the gastrointestinal tract – part I Directing and preparing the patient for the rtg examinations. Methodology of the rtg examinations. Diagnostic imaging of the the heart and great vessels. Basic principles of the USG and setting indications. Basic principles of the CT and setting indications.

	<p>5 Basic principles of the MR and setting indications.</p> <p>Diagnostic imaging of the gastrointestinal tract – part II.</p> <p>Neuroradiology, Diagnostic imaging of the musculoskeletal system, ANGIO, MR, CT CONV. METHODS LAB, Radiology: diagnostic imaging and therapy – introduction to Interventional Radiology</p> <p>Magnetic Resonance Laboratory, Radiographic examination of the breast, Diagnostic imaging of the urogenital radiology.</p> <p>USG LUNGS, HEART, MEDIASTINUM, GASTROINTESTINAL URO/GEN MUSCULOSCELETAL, NEURORADIOLOGY - practicalsa</p>
<p>Basic and supplementary bibliography to complete the module</p>	<p>A. "Squires Fundamentals of Radiology" Robert A. Novelline, MD Harvard University Press;</p> <p>B. "A global Textbook of Radiology", Holger Petterson, series of Diagnostic Imaging from Nicer Institute.</p> <p>C. Atlas of Radiologic Anatomy, Wicke I., Lea & Febiger, ISBN: 0-8121-1677-1</p> <p>D. "Radiology Review Manual" Wolfgang Dahrort Williams&Wilkins /ISBN-0-683-02340-3/</p>
<p>Dimension, principles and form of awarded for practice when the training program provides practice</p>	<p>n/a</p>