



Physician in the new era of AI and digital health tools

1. IMPRINT

Academic Year	2025/2026
Department	Faculty of Medicine
Field of study	Medicine
Main scientific discipline	Medical sciences
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time studies
Type of module / course	Non-compulsory (optional)
Form of verification of learning outcomes	Completion
Educational Unit / Educational Units	Department of Social Medicine and Public Health Medical University of Warsaw Medical Simulation Center Banacha Campus 3a Pawińskiego St., 02-106 Warsaw phone: 22 116 63 35 e-mail: msizp@wum.edu.pl
Head of Educational Unit / Heads of Educational Units	Prof. Aneta Nitsch-Osuch, MD, PhD
Course coordinator	Dr hab. Magdalena Łoś, mbogdan@wum.edu.pl

Person responsible for syllabus	Dr hab. Magdalena Łoś, mbogdan@wum.edu.pl
Teachers	Dr hab. Magdalena Łoś

2. BASIC INFORMATION

Year and semester of studies	III-V – winter and summer semester	Number of ECTS credits	2.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)		30 (e-learning)	1.20
Classes (C)			
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		20	0.80

3. COURSE OBJECTIVES

O1	This course will cover the major information about the role of physician in the new era of AI and digital health tools
----	--

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING

Code and number of effect of learning in accordance with standards of learning	Effects in the field of: <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>
Knowledge – Graduate* knows and understands:	
Skills– Graduate* is able to:	
D.U16	assume the responsibility for improving his/her qualifications and teaching other people;

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

5. ADDITIONAL EFFECTS OF LEARNING (*non-compulsory*)

Number of effect of learning	Effects of learning in time
Knowledge – Graduate knows and understands:	
Skills– Graduate is able to:	
Social Competencies – Graduate is ready for:	
K.1.	using objective sources of information

6. CLASSES

Form of class	Class contents	Effects of Learning
(S) seminar 1 online	Introduction. The digital revolution in medicine and the ultimate role of the physician.	D.U16., K.1.
(S) seminar 2 online	Opportunities and challenges physician leadership in the new era of AI and digital health tools – international perspective.	D.U16., K.1.
(S) seminar 3 online	Artificial intelligence, data analysis, precision medicine, blockchain and augmented reality - not the future, but the present of healthcare.	D.U16., K.1.
(S) seminar 4 online	Protecting physicians in the new age of AI – the ability to critically innovations approach and manage technological risk.	D.U16., K.1.
(S) seminar 5 online	Physician in the future - practical project.	D.U16., K.1.

7. LITERATURE

1. Lawry T., AI in Health, 2020.
2. Burns L.R., The Business of Healthcare Innovation, 2nd Edition, 2012.
3. Blumenthal D., Glaser J.P., Information Technology Comes to Medicine, N Engl J Med 2007.
4. Slack, Warner V., Cybermedicine for the Patient, Am J Prev Med 32, no. 5S, 2007.

Supplementary

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
D.U16., K.1.	E-learning seminars attendance, 3 written assignments in frame of the project and final test at the e-learning platform.	Test pass >70% correct answers.

9. ADDITIONAL INFORMATION

The course is available on the platform www.e-learning.wum.edu.pl. Student must learn all materials uploaded to the modules on the platform. After each module there are questions (quizzes) or task related to its subject.

Student must send written assignments (tasks) to the teacher (using e-learning platform) and receive a positive evaluation. Student must sent them before proceeding to the final test.

Student must pass the final test (available on the e-learning platform) to obtain a credit.

Students are obligatory to check MUW student email account as all information are sent only by formal MUW mails.

ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students' Survey of Evaluation of Classes and Academic Teachers.

Medical University of Warsaw has property rights, including copyright, to the syllabus. The syllabus may be used for educational purposes at the MUW only. Using of the syllabus for other purposes requires consent of the MUW.