

**Resolution no. 20/2021
of 28 January 2021
of the Senate of the Medical University of Lodz**

**on the programme of studies at the International Doctoral School
- for health care managers**

Pursuant to art. 28 item 1 point 12 and art. 201 item 4 of the Act of 20 July 2018 – Law on Higher Education and Science (Journal of Laws of 2020, item 85), and § 76 point 1 of the Statutes of the Medical University of Lodz of 27 June 2019, as amended, the Senate of the Medical University of Lodz hereby adopts the following resolution:

§ 1

The International Doctoral School run by the Medical University of Lodz establishes the programme of studies in the following disciplines: pharmaceutical sciences, medical sciences and health sciences – for health care managers. The programme of studies is enclosed hereto as an Appendix.

§ 2

The programme of studies specified in § 1 is applicable for the cycle of studies commencing in the academic year 2021/2022.

§ 3

The Resolution becomes effective upon being adopted.

RECTOR: *prof. dr hab. n. med. Radziław Kordek*

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- organizational units according to the distribution list
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PROGRAMME OF STUDIES AT THE INTERNATIONAL DOCTORAL SCHOOL – FOR HEALTH CARE MANAGERS

I. General outline of the programme of studies

The International Doctoral School is an organized form of education for doctoral students. It is run by the Medical University of Lodz in the following disciplines: pharmaceutical sciences, medical sciences and health sciences.

Education at the International Doctoral School:

- 1) lasts eight semesters and ends with submission of a doctoral thesis;
- 2) ensures preparation for obtaining the doctoral degree;
- 3) is provided in compliance with the programme of studies and an individual research programme.

The main lecture language at the International Doctoral School is English.

Implementation of the programme of studies at the International Doctoral School results in achieving learning outcomes at level 8 of the Polish Qualifications Framework specified in the Act of 22 December 2015 on Integrated Qualifications System and provisions made under art. 7 item 3 thereof.

II. RELATION OF THE PROGRAMME OF STUDIES WITH THE MISSION AND DEVELOPMENT STRATEGY OF THE MEDICAL UNIVERSITY OF LODZ

The programme of studies at the International Doctoral School complies with the mission of the Medical University of Lodz and was developed based on its key idea, i.e. ensuring an outstanding quality of conducted research studies, updating educational offer in response to the needs of the community, particularly patients and entities providing health services, making a significant contribution to development of the healthcare system by promoting modern prevention and treatment standards and establishing strong relations of cooperation with institutions that carry out public health tasks at the regional, national and international level.

The programme of studies at the International Doctoral School complies with the development strategy of the Medical University of Lodz, including the objectives specified for the field of science and research and development activity, i.e. increasing the influence of the University's research activity on development of science, synergy of research, innovation and implementation and development of clinical studies.

III. MAIN OBJECTIVES OF EDUCATION

The main learning objective at the International Doctoral School is submission of a doctoral thesis by a doctoral student and preparation for obtaining the doctoral degree.

The main learning objectives at the International Doctoral School also include:

- 1) preparing doctoral students for work involving teaching, research, management (complex management of healthcare institutions) and research and development, also in an international community;
- 2) acquiring the skill of taking advantage of the world's scientific achievements, identifying and solving research problems, planning and conducting research studies as well as analysing their results for the purpose of patents, publications or presentations at scientific conventions;
- 3) obtaining high research competencies and scientific independence by doctoral students;
- 4) preparing doctoral students for autonomous planning of their own scientific development and facing professional and public challenges, including the ethical aspect and responsibility, in compliance with the European Charter for Researchers;
- 5) preparing doctoral students for exchange of research experience and ideas, also in an international community;
- 6) preparing doctoral students for professional career in community social and economic institutions;
- 7) improving doctoral students' soft and hard skills to enable them to fulfil their professional tasks effectively;
- 8) familiarizing doctoral students with the best practices in teamwork-based research and teaching that will contribute to multidimensional and mutual relations between team members, as well as to adoption of an interdisciplinary approach to research problems (doctoral students will be able to apply them in their professional work).

The International Doctoral School promotes mobility of students and establishing of international relations by providing doctoral students with an opportunity for participation in international exchange programmes and international scientific conferences.

IV. Preliminary requirements – candidate profile

Admission to the International Doctoral School may be applied for by a candidate holding a professional title of *magister*, *magister inżynier* or an equivalent title, being a graduate of the fields of studies such as in particular medicine, medicine and dentistry, public health, biology, biotechnology or pharmacy, or other such as management, law, sociology, psychology .

In exceptional cases, justified by top quality scientific achievements, the International Doctoral School may also admit a graduate of a first-cycle programme or a student who completed the third year of a uniform long-cycle programme. Scientific achievements of a candidate are assessed by the Recruitment Committee which may ask a relevant scientific discipline council or the Scientific Council of the Medical University of Lodz for their opinion.

Candidates applying for admission to the International Doctoral School should have competences and scientific achievements that allow for taking up education at level 8 of the Polish Qualifications Framework in the following disciplines: pharmaceutical sciences, medical sciences, health sciences. They should also have English language skills at B2 level at least.

V. PROCEDURE OF RECRUITMENT TO THE INTERNATIONAL DOCTORAL SCHOOL

Candidates applying for admission to the International Doctoral School are recruited through a contest under the rules and regulations specified by the Senate of the Medical University of Lodz.

The results of the contest are open to the public. Both candidates being Polish citizens and foreigners may apply for admission to the International Doctoral School.

Limits of admissions to the International Doctoral School, for specific scientific disciplines in which studies are offered, are set by the Rector based on applications for awarding places at the International Doctoral School filed by the heads of the University research and teaching units in a given academic year and an analysis of costs of educating doctoral students incurred by the University.

The procedure of recruitment to the International Doctoral School includes the following stages:

- 1) registration in the University electronic recruitment system by candidates;
- 2) submission of documents required in the recruitment procedure by candidates;
- 3) verification of documents submitted by candidates;
- 4) qualification procedure;
- 5) entry into the register of doctoral students or issue of an administrative decision.

In the qualification procedure, a candidate is awarded recruitment points in particular for the following: results of examinations in English language and a major subject, the average grade obtained for the period of a first-cycle and second-cycle programmes of studies or a unified long-cycle programme of studies and scientific achievements. Candidates are qualified for admission to the International Doctoral School based on ranking lists.

A candidate applying for admission to the International Doctoral School is obliged to present an outline of a research project, in Polish or English language, related to the selected topic of a research study.

VI. DESCRIPTION OF INTENDED LEARNING OUTCOMES

A description of the intended learning outcomes includes characteristics of the second level for qualifications at level 8 of the Polish Qualifications Framework as specified in the Regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of the second level of learning outcomes for qualifications at levels 6-8 of the Polish Qualifications Framework (Journal of Laws item 2218). The learning outcomes refer to the following scientific disciplines: pharmaceutical sciences, medical sciences, health sciences.

Key descriptive categories	Description component code	Characteristics of the second level of learning outcomes for qualifications at level 8 of the Polish Qualifications Framework
KNOWLEDGE (a person knows and understands):		
Scope and depth of understanding – completeness of the cognitive perspective and dependencies	P8S_WG	<ul style="list-style-type: none"> • to an extent allowing for a review of the existing paradigms - the world's achievements, including theoretical fundamentals and general issues as well as selected detailed issues related to a specific scientific discipline • main development trends of the scientific disciplines in which studies are offered • methodology of scientific research • rules of dissemination of research findings results,

		also as open access resources
Context – conditions and effects	P8S_WK	<ul style="list-style-type: none"> • fundamental dilemmas of the contemporary civilisation • economic, legal, ethical and other significant conditions of research activity • basic principles of transfer of knowledge to economic and social sphere and commercialization of research findings and related know-how
SKILLS (a person is able to):		
Applying knowledge in practice – problem solving and performed tasks	P8S_UW	<ul style="list-style-type: none"> • apply knowledge in different fields of science for creative identification, formulation and innovative solutions of complex problems or performance of various research tasks, in particular: <ul style="list-style-type: none"> - define the objective and subject of research studies, formulate a research hypothesis, - develop research methods, techniques and tools and apply them creatively, - draw conclusions based on research findings • make a critical analysis and assessment of research findings, expert activity and other creative studies and their contribution to the development of knowledge • transfer research findings to the economic and social sphere
Communication – interpreting and making statements, dissemination of knowledge in the scientific community and using a foreign language	P8S_UK	<ul style="list-style-type: none"> • communicate on specialized topics to an extent ensuring active participation in an international scientific community • disseminate results of scientific activities, including in popular forms • initiate a debate • participate in a scientific discourse • use a foreign language at B2 level of the Common European Framework of Reference for Languages to an extent required for participation in international scientific and professional community
Work organization – planning and teamwork	P8S_UO	<ul style="list-style-type: none"> • plan and perform individual and team research undertakings, also in an international community

Learning – planning one’s own development as well as development of others	P8S_UU	<ul style="list-style-type: none"> • independently plan and act for the purpose of one’s own development as well as inspire and organize development of others • plan courses or groups of courses and conduct them using modern methods and tools
SOCIAL COMPETENCE (a person is ready to):		
Evaluation – critical approach	P8S_KK	<ul style="list-style-type: none"> • critically assess achievements in a given scientific discipline • critically assess one’s own contribution to the development of a given scientific discipline • recognize the significance of knowledge for solving cognitive and practical problems
Responsibility – fulfilling social tasks and acting for the public interest	P8S_KO	<ul style="list-style-type: none"> • fulfilling social responsibilities of researchers and creators • initiate activities for the public interest • think and act in an enterprising manner
Professional role – independence and development of the ethos	P8S_KR	<ul style="list-style-type: none"> • maintain and develop the ethos of scientific community, including: <ul style="list-style-type: none"> - conducting research activity in an independent way, - respect the principle of public property of research findings and the rules of intellectual property protection

VII. VERIFICATION OF THE LEARNING OUTCOMES

Following completion of a course in a subject specified in the programme of studies, the learning outcomes achieved by doctoral students are verified in examinations, credit tests or credits with grades. The form of obtaining a credit is defined in the schedule of implementation of the studies programme. Doctoral students are informed about the procedure of holding an examination or awarding a credit by an academic teacher before the commencement of the cycle of classes.

Examinations and credit tests may be a written or spoken verification of knowledge and skills. Credits may be awarded based on written papers (essays) on a given subject, multimedia projects or presentations prepared by doctoral students.

The learning outcomes achieved by a doctoral student are also verified by assessment of:

- 1) a doctoral student’s presentations given during an open doctoral seminar - an annual review session involving a presentation of research hypotheses, methods and research findings given in English;
- 2) implementation of an individual research plan, including a schedule of the doctoral dissertation preparation, conducted by an evaluation committee in the form of a mid-semester grade in the middle of the education period; the mid-semester grade results in a satisfactory or unsatisfactory result, and the result together with justification is open to the public.

VIII. SCHEDULE OF IMPLEMENTATION OF DOCTORAL STUDIES PROGRAMME

The schedule of implementation of studies programme at the International Doctoral School defines:

- 1) the subjects taught in obligatory and elective courses, including the number of hours thereof;
- 2) number of hours of professional placement training;
- 3) plan of obligatory and elective courses and professional placement training in each semester of studies;
- 4) forms of conducting classes and awarding credits for courses and professional placement training.

**Schedule of studies programme implementation at the International Doctoral School
of the Medical University of Lodz – health care managers
(for the cycle of studies beginning in the academic year 2021/2022)**

**MODULE I – OBLIGATORY COURSES
(the same for all the disciplines)**

YEAR 1 (SEMESTERS 1 and 2)

No.	Name of the course	Type of classes			Number of hours (total)	Form of awarding a credit for the course
		lecture	practical class	seminar		
1	Occupational health and safety training (e-learning)		4		4	CREDIT
2	Plagiarism and research abuses	1			1	CREDIT
3	Medical statistics		15		15	EXAMINATION
4	Fundamentals of didactics		10		10	CREDIT WITH A GRADE
5	Legal protection of intellectual property (2h) Commercialization of research studies (3h)	2		3	5	CREDIT
6	Scientific information – library training, using the University databases, bibliometric parameters, library workshop, information search, reference management software		8		8	CREDIT WITH A GRADE
7	Legal conditions of conducting medical experiments and preparing an application to the Bioethics Committee			5	5	CREDIT WITH A GRADE
8	Ethical aspects of research studies and the Code of Ethics for Research Workers			3	3	CREDIT
9	Obtaining funds for scientific research	4			4	CREDIT

10	Structure of a scientific paper		4		4	CREDIT
11	Health informatics		15		15	CREDIT WITH A GRADE
12	Principles of conducting research studies and preparing scientific publications	5		10	15	CREDIT WITH A GRADE
13	DOCTORAL SEMINAR – PUBLIC DEBRIEFING SESSION			10	10	CREDIT WITH A GRADE
	TOTAL	12	56	31	99	
14	PROFESSIONAL PLACEMENT TRAINING (conducting or co-participation in conducting of teaching classes for students)		30		30	CREDIT

YEAR 2 (SEMESTERS 3 and 4)

No.	Name of the course	Type of classes			Number of hours (total)	Form of awarding a credit for the course
		lecture	practical class	seminar		
1	English language		30		30	EXAMINATION
2	DOCTORAL SEMINAR – PUBLIC DEBRIEFING SESSION			10	10	CREDIT WITH A GRADE
	TOTAL		30	10	40	
3	PROFESSIONAL PLACEMENT TRAINING (conducting or co-participation in conducting of teaching classes for students)		60		60	CREDIT

YEAR 3 (SEMESTERS 5 and 6)

No.	Name of the course	Type of classes			Number of hours (total)	Form of awarding a credit for the course
		lecture	practical class	seminar		
1	DOCTORAL SEMINAR – PUBLIC DEBRIEFING SESSION			10	10	CREDIT WITH A GRADE
	TOTAL			10	10	
2	PROFESSIONAL PLACEMENT TRAINING (conducting or co-participation in conducting of teaching classes for students)		60		60	CREDIT

YEAR 4 (SEMESTERS 7 and 8)

No.	Name of the course	Type of classes			Number of hours (total)	Form of awarding a credit for the course
		lecture	practical class	seminar		
1	DOCTORAL SEMINAR – PUBLIC DEBRIEFING SESSION			10	10	CREDIT WITH A GRADE
	TOTAL			10	10	
2	PROFESSIONAL PLACEMENT TRAINING (conducting or co-participation in conducting of teaching classes for students)		60		60	CREDIT

**MODULE II – THEMATIC COURSES
FOR HEALTH CARE MANAGERS**

The module is aimed at familiarizing doctoral students with various aspects of conducting research in the discipline of health sciences, also with regard to organization and management in the healthcare system. Doctoral students get to know tools and methods supporting scientific research, including techniques of proper risk management and human resources/research staff management. The courses prepare doctoral students for administration of healthcare institutions. The preferable language in which classes are held is English. The courses are conducted in semesters 3-6.

No.	Name of the course	Type of classes			Number of hours (total)	Form of awarding a credit for the course
		lecture	practical class	seminar		
1	Marketing and consumer behaviours at the healthcare market	10	10		20	EXAMINATION
2	Work management and administration of healthcare system institutions	10	10		20	EXAMINATION
3	Risk management in the healthcare system	15	15		30	EXAMINATION
4	Human resources management	15	15		30	EXAMINATION
5	Change management in an organization	7	10		17	CREDIT WITH A GRADE
	TOTAL	57	60		117	

**MODULE III – ELECTIVE COURSES
(seminars)**

The elective courses are chosen by doctoral students from among courses offered by the University research and teaching units in each academic year. The total number of hours of elective classes during the period of studies may not be lower than 40 hours.

In order to complete an elective course, a doctoral student has to be awarded a credit.

TOTAL NUMBER OF HOURS

	Module I – obligatory courses	Module II – courses for health care managers	Module III – electives (seminars)	Professional placement training	Total
Year 1	99	117	40	30	
Year 2	40			60	
Year 3	10			60	
Year 4	10			60	
Total	159	117	40	210	526