KAUNAS UNIVERSITY OF TECHNOLOGY LITHUANIAN UNIVERSITY OF HEALTH SCIENCES





STUDY PROGRAMME

Public code	6281CX001
ISCED code	7470531
Level and/or type	University studies
Study cycle	Second cycle, graduate(Master's)
Study type	
Group of Study Fields	C Physical Sciences
Study field and code	C01 Chemistry
Programme title	Medicinal Chemistry
Specialization areas	
Programme workload in national c redits	120
Programme workload in ECTS cre dits	120
Mode of studies	Full-time studies
Official length of studies	2
Minimum access requirements	Bachelor degree or its equivalent
Minimum access qualification deg	Business degree of its equivalent
ree	
Access conditions and requiremen	
ts	
Qualification degree conferred	Master of Physical Sciences
Professional qualification conferre	,
d	
Date of programme establishment	V3-S-6 2016-01-27
(No. of Senate Decree, date)	
Reason of programme registration	Extract on the registration of the programme from the Register of Studies, Educatio
in state register (No. of Decree, d	nal Programmes and Qualifications of the Ministry of Education and Science of the
ate)	Republic of Lithuania, , 2016-04-21
Accreditation date and its expiry d	2019-07-17, 2023-12-31
ate	
Accreditation status	V-835, Pratęsta akreditacija iki artimiausio vertinimo
Accreditation institution	LRŠMSM
Programme closing date (No. of S	
enate decree, date)	
Date of programme signing out (N	
o. of Decree of Minister of Educat	
ion, date)	

Aim

To provide knowledge and competences of drug design, development and determination of practical significance and to d evelop research skills required to work in high-

tech research centers and industrial companies that develop, manufacture or supply pharmaceuticals.

Learning outcomes

Special features of programme implementation

Access to further study

S/he has access to the third cycle studies

Professional

status and career opportunities (including state regulated professions in case the qualification conferred gives such a right)

The graduate is able to carry out research, technological, expert, consulting and managing work in chemical, pharmaceuti cal and biotechnological industry as well as research laboratories.

Summary

A graduate has knowledge and skills of biologically active organic compound synthesis, purification and identification, id entification of chemical and physical properties, biological activity of compounds, and quality of the pharmaceuticals. He /she is able to choose formulation technologies, perform biopharmaceutical evaluation, knows how to carry out preclinical trials, research raw pharmaceutical materials. The graduate has theoretical knowledge and practical skills of research, de sign, production, quality control and distribution of medications.

Programme structure

Full-time studies

Code F Course Cr. Ins T 2 3 4 Coordinating Lecture		т	r un-time stu	uics		~				
P390M317 1 Selected Chapters of Organic Chemistry 6 64 x 0	Code	F	Course	Cr.	Contact	Semester				Coordinating Lecturer
P390M317	0040		Course	011	hrs	1	2	3	4	Coor uniting Eccur or
P390M327			Core and Compulso	ry S	ubjects					
P400M101	P390M117	1	Selected Chapters of Organic Chemistry	6	64	Х				Assoc. Prof. N. Kleizienė
MF/BCM/MC-M03	P390M327	1	Spectroscopy of Organic Compounds	6	80	Х				Prof. V. Getautis
M03	P400M101	1	Analytical and Preparative Chromatography	6	64	X				Lect. L. Pečiulytė
M02		1	Cell Biology	6	80	X				J. Liobikas
FF/KFK/MC-M06		1	Pharmacognosy and Pharmaceutical Chemistry	6		X				
M06	P390M116	1	Selected Chapters of Medicinal Chemistry	6	64		X			
M01		1	Development of Pharmaceuticals	6			X			
M04		1	Pharmacology	6			X			R. Jankūnas
Electives		1	Molecular Biology	6			Х			P. Vaitkienė
P000M112	T480M100	1	Extraction of Bioactive Natural Materials	6	56			X		Assoc. Prof. V. Kitrytė-Syrpa
P000M112 1 Research Project 1 6 12 x Assoc. Prof. E. Arbačiauskienė			Electives	12				X		
P000M112			Total of Credits:	72		30	24	18		
P000M116 1 Research Project 2 12 12 x Assoc. Prof. E. Arbačiauskienė Total of Credits: 18 6 12 Final Degree Project P000M114 1 Master's Degree Final Project 30 x Assoc. Prof. E. Arbačiauskienė, Prof. S. Petronienė Total of Credits: 30 x 30 y			Research Project and O	otion	al Subje	ects				
P000M116 1 Research Project 2 12 12 x Assoc. Prof. E. Arbačiauskienė Total of Credits: 18 6 12 Final Degree Project P000M114 1 Master's Degree Final Project 30 x Assoc. Prof. E. Arbačiauskienė Total of Credits: 30 x Assoc. Prof. E. Arbačiauskienė, Prof. S. Petronienė Total of Credits: 30 x 30 30 30 30 30 30 30 30 30 30 30 30 30	P000M112	1	Research Project 1	6	12		X			
Total of Credits: 18	P000M116	1	Research Project 2	12	12			X		Assoc. Prof. E.
Final Degree Project P000M114		_	Total of Credits:	18			6	12		
P000M114 1 Master's Degree Final Project 30 x Assoc. Prof. E. Arbačiauskienė, Prof. S. Petronienė Total of Credits: 30 30 30 30 30 30 30 30 30 30 30 30 30					ct				•	
Total of Credits	P000M114	1							X	Arbačiauskienė, Prof. S.
			Total of Credits:	30					30	
Per Study Programme and per Semester 120 30 30 30 30			Total of Cre	dits						
1 of Study 1 togramme and per Semester [120] [Su[Su[Su[Su]Su]Su	Per	·S	tudy Programme and per Semester	120		30	30	30	30	

Electives

C	Code	F	Course	Cr.	Contact hrs	Semester Recommended 3 sem. 12 cr.	Coordinating Lecturer
L				El	ectives		
	Biomedicinal Chemistry Study Line		24		X		
	Synthetic Medicinal Chemistry Study Line		24		X		

Modules

Code	F	Course	Cr.	Contact hrs	Semester Recommended 3 sem.	Coordinating Lecturer
Biomedicinal	Che	emistry Study Line				
MF/PAK/MC	. 1	General and molecular pathology	6		X	L. Poškienė
M01						D. Pangonytė

VF/MVI/MC- M02	1	Molecular Microbiology	6			R. Plančiūnienė Ž. Štreimikytė- Mockeliūnė
IAK/IAK/MC- M01	1	Molecular Immunology	6		х	E. Gasiūnienė
FF/VTSF/MC- M02	1	Drug Technology	6		Х	A.Savickas
		Clinical Trials of Medicinal Products	6		X	V. Briedis
Synthetic Medi	ci	nal Chemistry Study Line				
P390M012	1	Synthesis of Amino Acids and Peptides	6	48	X	Prof. V. Mickevičius
P390M102	1	Chemistry of Heterocyclyc Compounds	6	80	X	Prof. V. Mickevičius
P390M109	1	Mechanisms of Organic Reactions	6	64	X	Prof. V. Martynaitis
P390M120	1	Drug Synthesis	6	48	Х	Assoc. Prof. E. Arbačiauskienė

Study programme committee

Title	Code
KTU-LSMU Joint Study Programme Committee for Medicinal Chemistry	JMED-KSPK

Programme coordinator

Position	Pedagogical title, research degree	Surname, name	Payroll No
Assoc. Prof.		ARBAČIAUSKIENĖ Eglė	B390