APPROVED
Head of the Department of Pharmaceutical Chemistry
and Drug Technology

Volodymyr GELMBOLDT "29" august 2024 year

CALENDAR - THEMATIC PLAN OF LECTURES the course "Pharmaceutical Chemistry " for the third-year students International Faculty in 2024-2025 academic year

No	Study of subject and content	The amount in hours	Group	Who teaches	Date	Equipment classes	Place of classes
1	2	3	4	5		6	7
1.	Subject and tasks of pharmaceutical chemistry, history of development. The system of evaluation of the quality of medicines. The State Pharmacopoeia of Ukraine, its structure.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent
2.	Physico-chemical methods of analysis in the identification of medicines.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent
3.	Methods of identification of medicines.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent
4.	Methods of quantitative analysis of medicines. Acid-base titration. Complexonometry. Precipitation titration.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent
5.	Methods of quantitative analysis of medicines. Methods of redox titration. Gravimetry.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent
6.	Express analysis of medicines. Modern trends in the development of pharmaceutical analysis.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent
7.	Principles of classification of medicines, their nomenclature. Structure-activity relationship. The main ways of drug metabolism. Prodrugs	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent
8.	Basics of the strategy of creating new synthetic medicines.	2	3	Ivan	according	The visual	Departm

				SHYSHKIN	to the timetable	material	ent			
9.	Nonsteroidal anti-inflammatory drugs. Characteristics, classification, relationship between structure and pharmacological action, mechanism of action, methods of preparation, methods of analysis, application in medicine.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent			
10.	Narcotic analysis and their analogues. Characteristics, classification, relationship between structure and pharmacological action, mechanism of action, methods of preparation, methods of analysis, application in medicine.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent			
11.	Means for anesthesia. Psychotropic drugs. Neuroleptics. Antidepressants. Characteristics, classification, relationship between structure and pharmacological action, mechanism of action, methods of preparation, methods of analysis, application in medicine.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent			
12.	Psychotropic drugs. Tranquilizers. Sedative Psychostimulants. Characteristics, classification, relationship between structure and pharmacological action, mechanism of action, methods of preparation, methods of analysis, application in medicine.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent			
13.	Psychotropic and hypnotic drugs. Barbituric acid derivatives. Characteristics, classification, relationship between structure and pharmacological action, mechanism of action, methods of preparation, methods of analysis, application in medicine.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent			
14.	Anticonvulsant and antiepileptic drugs. Means for the treatment of parkinsonism. Characteristics, classification, relationship between structure and pharmacological action, mechanism of action, methods of obtaining, methods of analysis, application in medicine.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent			
15.	Emetics and antiemetics. Antitussives. Nootropic drugs. Antihistamines. Characteristics, classification, relationship between structure and pharmacological action, mechanism of action, methods of preparation, methods of analysis, application in medicine.	2	3	Ivan SHYSHKIN	according to the timetable	The visual material	Departm ent			
Tota	Total: 30									

The head of the educational part of the Department of Pharmaceutical Chemistry and Drug Technology



Oleksii NIKITIN