

ЗАТВЕРДЖЕНО
на засіданні кафедри,
протокол № 1
від “31” серпня 2021 р.

CALENDAR AND THEMATIC PLAN
of out-of-classes works of “Computer modelling in pharmacy”
for the 3^d Year students of the Faculty of Pharmacy
(autumn (V) semester of 2021/2022 educational year)

№	Topics	hours	duration
1	Modern office software packages (Microsoft Office, OpenOffice, StarOffice, etc.), advantages and disadvantages, licensing conditions. Use of office programs (text editors, spreadsheets, presentation systems and database management systems) in pharmacy.	4	September
2	Search for information about drug of a certain pharmacological group on the INTERNET according to the lecturer's instructions.	4	September
3	Search and systematization of information from the MEDLINE database on the topic given by the teacher.	4	September
4	Computer approaches in predicting the toxicity and pharmacokinetic parameters of potential drug-like molecules.	8	October
5	Combinatorial chemistry and high throughput screening as <i>in silico</i> modern approaches to drug search.	8	October
6	Concepts, classification and types of molecular descriptors and their use in modeling the structure-activity relationship	8	November
7	Comparative characteristics of algorithms and existing docking software	8	November
8	Software packages used to implement the practical activities of the pharmacist abroad	3	December
9	Model of a comprehensive software product to meet the needs of automation of the working place at pharmacies.	3	December
Total		50	