

**COURSE OUTLINE OF LECTURES**  
**on discipline «Information technology in pharmacy»**  
**for the students of a 2 course of pharmaceutical faculty on the 2014-2015 educational year**

Confirmed  
on the methodical conference of department  
Protocol № 1 from August 29, 2014

<b>Date</b>	<b>Theme of lecture</b>	<b>Hours</b>	<b>Lecturer</b>
<b>MODULE 2.</b>			
<b>«The knowledge's and support of making decision, statistical data processing in pharmacy »</b>			
03.09.2014	The hardware's of information technologies realization: network technologies.	2	assoc.prof. Lopatynska O.I.
17.09.2014	The using of design instruments in practice of account and turn of pharmaceutical preparations.	2	assoc.prof. Lopatynska O.I.
01.10.2014	Expert systems and artificial intelligence in medicine and pharmacy.	2	assoc.prof. Lopatynska O.I.
15.10.2014	Statistical methods of processing of medico-biological and pharmaceutical data.	2	assoc.prof. Lopatynska O.I.
29.10.2014	The modern directions of the computer technologies using for decision practical pharmacy tasks.	2	assoc.prof. Lopatynska O.I.
<b>TOTAL</b>		<b>10</b>	

Time of lecture – *wednesday, 11<sup>30</sup> - 13<sup>05</sup>*

Place of lecture – *conference hall*

Heard of the department of clinical pharmacy,  
pharmacotherapy and medicinal standardization  
of Danylo Halytsky Lviv National Medical University

prof. A.B. Zimenkovsky

**COURSE OUTLINE OF PRACTICE**  
**on discipline «Information technology in pharmacy»**  
**for the students of a 2 course of pharmaceutical faculty on the 2014-2015 educational year**

Confirmed  
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Protocol № 1 from August 29, 2014

Date	Theme of practice	Hours
<b>MODULE 2.</b>		
<b>«The knowledge's and support of making decision, statistical data processing in pharmacy »</b>		
03.09.2014	The rules of safety. Intermediate checking of knowledge's. The basic stages of pharmaceutical tasks solving using mathematical methods and computer technologies. The possibility of using of spreadsheet facilities for pharmaceutical tasks solving.	3
10.09.2014	The using of spreadsheet logic function for calculating in pharmacy practice (on the example of designing of pharmaceutical preparations purchase form-list considering discounts).	3
17.09.2014	The using of simulation tools in practice of medicines turnover. Financial forecasting. Financial analysis on the computer.	3
24.09.2014	The automation of financial calculations in spreadsheets. Model of pharmaceutical storehouse. Analysis of motion of inventory items.	3
01.10.2014	Business and scientific graphics in the environment of spreadsheets, using for performance of pharmaceutical tasks.	3
08.10.2014	Basic procedures of statistical analysis: general population and sample, estimation of parameters of general population by the sample. Sampling distributions. Confidence interval. Statistical verification of hypotheses. Verification of hypotheses about probability, dispersion, laws of distribution.	3
15.10.2014	Elements of correlation and regressive analysis. Graphics data representation. Dispersion diagram. Prognosis. Prognosis errors.	3
22.10.2014	Facilities of prognostication. Information technologies of functional approximation and prognosis of statistical data. Prognostication of development of medicobiological process based on functional approximation of statistical data with using of spreadsheets facilities.	3
29.10.2014	Support systems of making decision. Expert systems.	3
05.11.2014	Network technologies in pharmacy. Use of INTERNET resources in professional activity of pharmacist.	2
12.11.2014	The modern computer and communication technologies: e-mail, system of rapid reports, computer telephony.	3
19.11.2014	Electronic commerce. The working on the commercial Web-places. Internet-pharmacies. Disposition of text information on Web-pages.	3
26.11.2014	The principles of electronic distance learning.	3
03.12.2014	The checking of individual (calculation-graphic) work execution. The control of module 2 mastering	1
<b>TOTAL</b>		<b>40</b>

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