Approve

Vice-Rector for Academic Work

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# National Pirogov Memorial Medical University, Vinnytsya (nome natioenynamin annaro narcany) Curriculum for 2019/2020 acad. Year Specialty 22 Public Health Care 226 "Pharmacy" (specialty)

### FIRST YEAR (FOREIGN STUDENTS) according to MPH on 26.07.2016

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ar	Sej	pten	nber	r	C	ctober				No	ovembe	r		Ι	)ecem	nber		Janu	ary			Febru	ary		Ma	rch		Ap	nil			May	r			June			July	r	Τ	Au	agust	:
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 $Deffinitions: T-theoretical study; C-examinations; \Pi-practice; K-holidays;$ 

			Amount	of hours			I semes	ster	20 ac	ademic	week	s				I	I seme	ster	2	0		acade	emic v	veeks	
		~	u n			am	ong th				ects	X		is of		am	ong th				ect	X		ns of	
		nt edits	ic ul	ed			у то	му чі	аслі	0 r k	1 T O j	V O L	con	trol			вто	му ч	ислі	0 r k	10]	V 0 L	con	trol	
M 3/II	Titles of Subjects	Amount ECTS credits	according curriculum	actually allocated	t o ta l	BCB0T0	лекції	лабораторні	практичні	in dividual work	course works, projects	calculation work	ekaam eh	38.J.İK	t o ta l	BCLOTO	лекції	лабораторні	практичні	individual work	course work, project	calculation work	ekaam eh	38.J İK	Department
1	Latin Language	3.00	90	90	45	30			30	15				С	45	30			30	15				dc	Foreign Languages
2	Statistics	3.50	105	105	45	38	18		20	7				с	60	32	0		32	28				dc	Biophysics
3	General and Inorganic Chemistry	6.00	180	180	90	60	20		40	30				с	90	50	10		40	40			Е		Pharmaceutical Chemistry
4	Human Anatomy and Physiology	5.00	150	150	75	54	18		36	21				dc	75	54	18		36	21				dc	Human Anatomy Physiology
5	Biology with Bases of Genetics	4.00	120	120	120	80	20		60	40				dc	0	0									Pharmacy
	History of Ukraine and Ukrainian Culture	3.00	90	90											90	30	10		20	60				dc	Social Sciences
	Biologic Physics with Physical Methods of Analysis	4.50	135	135											135	80	20		60	55				dc	Biophysics
8	Introduction to Pharmacy	3.00	90	90											90	60	20		40	30				dc	Pharmacy
9	Bases of Bioethics and Biosafety	1.00	30	30										j	30	20	10		10	10				с	Hygiene
10	Philosophy	3.00	90	90										ĺ	90	40	20		20	50				dc	Philosophy
11	Life Safety	3.00	90	90											90	28	10		18	62				с	Emergency Medicine
12	Elective Course: Law	3.00	90	90	90	26	8		18	64				с	0	0									Pathologic Anatomy
13	Elective Course: Sociology, Medical Sociology	3.00	90	90										ļ	90	28	10		18	62				с	Philosophy Social Sciences
14	Elective Course: Cellular Biology	3.50	105	105	105	30	10		20	75				с											Pharmacy
15	Elective Course: Bioactivity of Inorganic Compounds	3.50	105	105											105	30	10		20	75				с	Pharm. Chemistry
16	Inroductive Practice in OEP (summer)	2.00	60	60																					
47	Illusian Longuage	12.00	360	260	240				120	74					450	102			100	40					
1/	Ukrainian Language Total	12.00 66.00		360 1560		318	94	0	136 224	74 252	0	0	0		150 990	102 482	138	0	102 344	48 508	0	0		д3	Ukrainan Studies
L	Ne 3/m		ractice	1000	010	510				of weeks	Amount		5	-	n of control	402	133	5		500				L	
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	Intr	oductive		e in Ol	S.P.					1		0			дз						-		J		
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National Pirogov Memorial Medical University, Vinnytsya fall title of the university Curriculum for 2019/2020 acad. Year Specialty 22 Public Health Care 226 "Pharmacy"

#### Курс 2 (ІНОЗЕМНІ СТУДЕНТИ) November

(пифр і назва напаряму підготовки (спеціальності))

according to order MPH on 26.07.2016 June July August

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	September October	r 8		November		Deci S S			January	_	ebruary		March		April	9 9	May		Jun	1 1	<u>.</u>	July		August	-
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Ne	Titles of Subjects	Amount ECTS credits	according to curriculum	ctually allocated	total	а	s	ory	7	individual work	course work, projects	calculation	-	. L	total	a	S	laboratory	le l	individual work	course work, projects	calculation	-	I	Departments
		EC ~	urr	y a.	÷	total	lectures	rat	ctic	ivid	0M C	ula	exam	credit	÷	total	lectures	rat	ctic	ivid	MO A	ula	exam	credit	1
			ac	uall			lec	aboratory	practical	ind	urse	calc	e	5			lec	abo	practical	ind	nrse	calc	e	5	i -
				act				-			c0							-			c0				:
1	Analytical Chemistry	8.00	240	240	120	80	20		60	40				С	120	66	8		58	54			Е	i	Pharmaceutical Chemistry
2	Organic Chemistry	8.00	240	240	120	80	20		60	40				С	120	66	8		58	54			Е		Pharmaceutical Chemistry
3	Physical and Colloidal Chemistry	2.00	60	60										l	60	46	8		38	14				с	Pharmaceutical Chemistry
4	Pharmaceutical Botany	5.00	150	150	75	70	10		60	5				с	75	66	8		58	9			Е		Pharmacy
	· ······																Ŭ			-			-		- Harmady
5	Microbiology with Bases of Immunology	2.50	75	75											75	46	8		38	29				с	Microbiology
						45			00	~				. 1	-									i i	Internal Medicine of Med. Faculty
	First Premedical Aid with Introductive					45	4		20	21				dc											№2
6	Medical Practice	3.00	90	90	90	45	6		20	19				dc											General Surgery
	Information Technologies in Pharman		450	450			40		00	~~					~~	~~								I . I	i
7	Informative Technologies in Pharmacy	5.00	150	150	60	40	10		30	20				С	90	30			30	60				dc	Biophysics
8	Hygiene in Pharmacy and Ecology	3.00	90	90											90	36	18		18	54				dc	Hygiene and Ecology
9	Biological Chemistry	6.00	180	180	90	60	20		40	30				С	90	40	10		30	50			Е		Biochemistry
	0 /						-		-					_											
10	Bases of Bioethics and Biosafety	1.00	30	30	30	20	10		10	10				с	0	0									Hygiene and Ecology
10	Bases of Bioetines and Biosalety	1.00		00		20	10		10	10				Č	v	v					++				Hygiene and Ecology
11	Philosophy	3.00	90	90	90	40	20		20	50				dc	0	0									Philosophy and Social Sciences
																					1				
12	Elecive Course: Logic. Formal logic	2.00	60	60	60	20	10		10	40				С	0	0								l i	Philosophy and Social Sciences
																					1				
13	Elective Course: Economic Theory	2.00	60	60	60	22	2		20	38				С	0	0									Philosophy and Social Sciences
	Elective Course: Theoretical Bases of															_									ł
14	Drug Technology	3.00	90	90	90	40	10		30	50				С	0	0									Pharmacy
	Elective Course: Medicinal Plants																							1	!
15	Growing	2.00	60	60											60	26	8		18	34				С	Pharmacy
																									1
16	Elective Course: Applied Genetics	2.00	60	60	l L										60	26	8		18	34				С	Pharmacy
1																									1
	Elective Course: Essential Problems of	2 00	60	<u> </u>	i									[	~~		•		10					i	;
17	Cellular Biology Elective Course: Theoretical Bases of	2.00	60	60										Li	60	26	8		18	34	$\vdash$			С	Pharmacy
19	Synthesis	2.00	60	60											60	42	6		36	18		,		с	Pharmaceutical Chemistry
10	Cynaicele	2.00	00	00											00	42	0		30	10	$\vdash$	$ \neg $			rnamaceutical Chemistry
19	Practice in Pharm. Botany (summer)	3.00	90	90																		,			Pharmacy
F																					+			1	
20	Ukrainian Language	6.5	195	195	105	68			68	37				с	90	68			68	22				с	Ukrainian Studies
<b>—</b>	Total	71.00	1785	1785	885	562	142	0	380	363	0	0	0	Ō	900	474	92	0	382	426	0	0		1	
L	N2 3/11			Practice	·	<b></b>	·	<u> </u>	<u> </u>			nber of V		ount of he	ours		n of contro	d		<u> </u>	الد ــــــــــــــــــــــــــــــــــــ	Ξ		د د	7
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\_\_\_\_ prof. Guminsky Y.Y.

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Vice-Rector for Academic Work

\_ prof. Guminsky Y.Y.

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National Pirogov Memorial Medical University, Vinnytsya (full title of the university) Curriculum for 2019/2020 acad.year Specialty 22 Hublic Health Care 226 "Pharmacy, Inducstrial Pharmacy" (specialty)

## THIRD YEAR (FOREIGN STUDENTS) according to order of MPH on 26.07.2016

H	September		October					Nov	ember			D	ecem	ber		Ja	nuary	1	Februa	iry		Marcl	h		April			Ma	<i>(</i>			Ju	ne			Jul	у		Augus	st	
Yea	1 2 4	S.	9	7	8	6	10	П	12	13	14	15	17	18	19	20	22	24	25	26	28	29	31	32	25	35	36	38	39	40	41	42	43	4	45	47	48	50	51 52	53	
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Definitions: T - theoretical study; C - examinations; II - prcatice; K - holidays;

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			Amount	of hours			V sem	ester 1	8 aca	lemic v	veeks			<u>i</u>		1	VI seme	ster	18	acad	lemic	week	s		[]
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		nt edit	5 E	ted			i	includin	g	vorh	ý.	vor	con	trol				includiı	ng	vorh	ŕ.	vor	cont	rol	į l
Me	Titles of Subjects	Amount ECTS credits	according to curriculum	actually allocated	total	total	lectures	laboratory	practical	individual work	course work, projects	calculation work	exam	credit	total	total	lectures	laboratory	practical	individual work	course work, proiects	calculation work	exam	credit	Department
	Drug Technology	9.00	270	270	135	90	18		72	45				с	135	72	18		54	63			Е		Pharmacy
	Physical and Colloidal Chemistry	2.50	75	75	75	48	10		38	27			Е												Pharmaceutical Chemistry
3	Pathologic Physiology	5.00	150	150	75	54	18		36	21				С	75	26	12		14	49			Е		Pathologic Physiology
4	Pharmaceutical Chemistry	6.00	180	180	90	66	10		56	24				С	90	46	8		38	44			Е		Pharmaceutical Chemistry
5	Microbiology with Bases of Immunology	2.50	75	75	75	44	10		34	31			Е												Microbiology
6	Pharmacognosy	4.50	135	135										i	135	90	18		72	45				С	Pharmaceutical Chemistry
7	Pharmacology	9.00	270	270	135	88	18		70	47				с	135	82	12		70	53			Е		Pharmacy
8	Emergency Medicine	3.00	90	90	90	26	8		18	64				dc											Emergency Medicine
9	Cifil Defense	0.50	15	15	15	8			8	7				с											Emergency Medicine
10	Computer Modelling in Pharmacy	3.00	90	90											90	40	4		36	50				dc	Biophysics
11	Pharmaceutical Law and Legislation	3.00	90	90	90	50	18		32	40				dc											Social Medicine
12	Ethics and Deontology in Pharmacy	3.00	90	90	90	38	8		30	52				dc											Philosophy and Social Sciences
13	Elective Course: Clinical Biochemistry	2.00	60	60	60	56	18		38	4				с											Biochemistry
	Elective Course: Clinical Microbiology and Immunology	2.00	60	60											60	30	30			30				с	Microbiology
15	Elective Course: Drugs Side Effects	2.00	60	60											60	30			30	30				с	Clinical Pharmacy
16	Elective Course: Modern Analytic Laboratory Practice	4.00	120	120	120	56	18		38	64				с	0	0									Pharmaceutical Chemistry
17	Elective Corse: Physico-Chemical Analysis in Drug Creating	1.50	45	45											45	36			36	9				с	Pharmaceutical Chemistry
18	Educative Practice in Pharmacognosy	3.00	90	90											90	46	8		38	44				dc	Pharmaceutical Chemistry
19	Propedeutic Practice in PDT	2.00	60	60										ĺ	60	36			36	24				dc	Pharmacy
20	Ukrainian Language	3.50	105	105	60				34	26				с	45	34			34	11				дз	Ukrainian Studies
	Total	67.5	2025			624	154	0			0	0	0				110	0	424	441	0	0			
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Approve

Vice-Rector for Academic Work

prof. Guminsky Y.Y. 20

Natinal Pirogov Memorial Medical University, Vinnytsya title of the

Curriculum for 2019/2020 acad.year Specialty 22 Public Health Care 226 "Pharmacy" (specialty)

### FOURTH YEAR (FOREIGN STUDENTS)

4	MDIL 26 07 2016
according to order of	MPH on 26.07.2016

Ħ	So	ptem	ber			C	ctober						No	vember				Dec	embe	r		Jan	uary			Feb	oruary		1	March	1		Ap	ril				May				Ju	ne				July		Т	A	ugus	t	1
Yea	- •	3	4	5	,	9		7	-	8	0	· ·	10	11	13	14	15	16	17	18	19	20	12	77	23	25	26	27	28	29	31	32	33	34	35	36	37	38	39	40	41		43	44	45	46	47	10	49	50	52	53	l
4	ΤI	Τ	т	т	Т			Т	Т		Т	1	ΓТ		Т	Т	Т	т	Т	Т	Т	т	С	К	τ	Т	Т	Т	ΓT	ΓT	Т	Т	ΤТ		Т	Т	Т	Т	Т	Т	Т	С	CI	П	п	пዞ	κ	К		КК	К	к	l.
																					D	efinit	ions:	T – 1	theor	etical	l stud	y; C	– exa	ams;	П – 1	oracti	ce; K	– ho	lidays	s;																	

academic weeks academic weeks VII semester 20 VIII semester 18 Amount of hours among them class among them class forms of forms of work calculation work ECTS credits individual work including control including control individual work according to curriculum tually allocated work, course work projects urse worl projects calculation **v** laboratory laboratory Ŷ Titles of Subjects Department total practical total practical lectures total total lectures credit exam credit exam cour Pharmaceutical Chemistry 4.00 120 120 **120 90** 20 70 30 Е 0 0 Pharmaceutical Chemistry Clinical Pharmacy and Pharmaceutical 2 Care 6.00 180 180 90 60 20 40 30 90 36 0 36 54 с C Clinical Pharmacy 6.00 180 180 90 60 20 40 30 36 0 36 54 3 Drug Technology с 90 Е Pharmacy Pharmaceutical Manegement and 4 Marketing 3.00 90 90 90 46 10 36 44 C Social Medicine 32 18 70 5 Pharmaceutical and Medical Commodity 4.00 120 120 120 50 c Pharmacy 72 30 120 120 120 90 18 6 Toxicologic and Forensic Chemistry 4.00 dc C Pharmaceutical Chemistry 90 90 90 **40** 10 30 50 7 Pharmacotherapy with Pharmacokinetics 3.00 dc Clinical Pharmacy 70 80 8 Organization and Economics of Pharmacy 6.00 180 180 180 100 30 Е Pharmacy 24 6 9 Pharmacoeconomics 3.00 90 90 90 30 60 dc 0 0 Social Medicine Е 10 Pharmacognosy 4.00 120 120 120 80 12 68 40 0 0 Pharmaceutical Chemistry Labour Protection and Labour protection 30 11 in Pharmacy 3.00 90 90 90 40 10 50 с Hygiene 12 Medical Toxicology 90 90 10 50 3.00 90 40 30 dc Clinical Pharmacy Elective Course: Pharm. Representative's 30 30 60 60 0 0 60 30 13 Coaching 2.00 C Pharmacy 14 Elective Course: Parfums and Cosmetics 60 60 26 8 18 34 2.00 60 С Pharmacy 15 Educational Practice in Drug Technology 3.00 90 90 0 0 90 30 30 60 dc Pharmacy Practice in Pharmaceutical Drug 16 Technology (summer) 5.00 150 150 61.00 1680 1680 930 526 136 0 390 404 0 0 0 0 750 358 56 0 302 392 0 0 Total Amount of weeks Amount of hours Nº 3/II practice forms of control Practice in Pharmaceutical Drug Technology 150 3 dc " 20 Head of Academic Department prof. Fomina L.V.

#### Vice-Rector for Academic Work

\_\_\_\_\_ prof. Guminsky Y.Y.

### National Pirogov Memorial Medical University Curriculum for 2019/2020 academic year Specialty 1202 Pharmacy 7.12020101 "Pharmacy"

### (speciality) FIFTH YEAR (FOREIGN STUDENTS) according to order of MPH on 24.03 2015

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ъc		Septe	mber			Octobe				Nove	mber				Dece	mber			Janu	iary			Febru	aary		Mare	:h		April				May				Ju	inc			1	July		1	August	
Cou	1	2	3	4	5	9	8	9	10	Ξ	12	13	14	15	16	17	18	19	20	22	23	24	25	26	28	29	31	32	33	35	36	37	38	39	40	41	42	43	4	45	46	47	49	50	51 52	53
5		Т	Т	т	т	т	т	т	т	Т	т	Т	т	т	r	т т	T	r	сс	к	т	т	т	ΤТ	т	т	тт	т	гт	т	п	п	1	млі	ДE	ДE .	ДE									
															Def	inition	s: T -	- theor	y; C –	exam	5 5255	ion; I	I – pr	actice;	; K – ł	olida	ys; ДЕ	- stat	e exan	ninatic	ns;															

		dit	Amount	of hours			IX seme	ster 1	9 acade	emic we	eks						X semes	ster	13	acade	mic we	eks		<u>-</u>	
		cree				1	among t			.k	proj ects	rk	form				among th	nem clas				1	form		
		SLS	H th	ated				includin	g	work	proj	ı work	cont	rol			11	ncludin	3	wor	proj	n work	cont	rol	
Me	Names of subjects	Amount of ECTS credit	According to the Curiculum	actuallu allocated	total	total	lectures	laboratory	practical	individual	course work,	calculation	exam	credit	total	total	lectures	laboratory	practical	individual work	course work, project	calcul;ation	exam	credit	Department
1	Biopharmacy	2.00	60	60	60	20	4		16	40				dc										0	linical Pharmacy
2	Labour Protection in Pharmacy	1.50	45	45	45	16	8		8	29				с										н	ygiene
3	Manegement and Marketing in Pharmacy	4.00	120	120	120	54	18		36	66			Е											s	ocial Medicine
4	Patent Science	1.50	45	45	45	16	8		8	29				dc										н	ygiene
5	Clinacal Pharmacy	6.00	180	180	180	120	30		90	60			Е											с	linical Pharmacy
6	Pharmaceutical Law	3.00	90	90										ļ	90	50	20		30	40				СP	harmacy
7	Toxicologic Chemistry	4.00	120	120	120	46	8		38	74			Ε												harmaceutical Chemistry
8	Medicinal Plants Resource Studies	3.00	90	90	90	40	8		32	50				dc										۵.	harmaceutical Chemistry
9	Drug Standartization	2.00	60	60											60	40	10		30	20				dc P	harmaceutical Chemistry
10	Medical and Pharmaceutical Commodity	2.00	60	60	60	40	16		24	20				dc										Р	harmacy
11	Medicinal Cosmetic Technology	3.00	90	90											90	60	20		40	30				dc P	harmacy
12	Appropriate Practices in Pharmacy	3.00	90	90	90	60	24		36	30				dc										P	harmaceutical Chemistry
	Specialization:	0.00																							
13	Remedies	1.00	30	30										l	30	22	10		12	8				dc ₽	harmacy
14	Clinical Drug Trials	1.00	30	30	30	18	8		10	12				dc										C	linical Pharmacy
15	Financial and Managing Activity Analysis of Pharmaceutical Enterprises	1.00	30	30											30	22	10		12	8				dc P	harmacy
16	Homeopathic Drug Technology	1.00	30	30											30	22	10		12	8				dc P	harmacy
17	Medicinal Plants and Phytotherapy	1.00	30	30											30	22	10		12	8				dc P	harmaceutical Chemistry
	Drugs' Quality Control	1.00	30	30	30	16	4		12	14				dc	0	0									harmaceutical Chemistry
19	Eective Course : Drug Toxicity and Pharmacokinetics	1.50	45	45	45	28	28			17				c	0	0								с	linical Pharmacy
20	Practical Training in Pharmaceutical Chemistry	4.50	135	135	120	42	4		38	78					15	10			10	5				dc P	harmaceutical Chemistry
21	Practice in Organization and Economics of Pharmacy	4.50	135	135	0	0									135	40			40	95				dc P	harmacy
22	Clinical Practice (Specialization)	2.50	75	75	45	36			36	9				с	30	24			24	6				dc P	harmacy
23	Elective Course : Technology of Manufacturing Medicine in Field Conditions and Organization of Pharmacentical Provision of Population in Emergency Situations	2.00	60	60											60	36	10		26	24				c	harmacy
	Total	51.5			1035	516	168	0	348	528	0	0	0		510		90	0	248	252	0	0	1		
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	2 Practical Training in Manageme		arketing									1		90	-		dc			Pharmace	eutical		1		1
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Head of Academic Department \_\_\_\_ prof. Fomina L.V.