



LECTURES PLANNED SCHEDULE
 on Biological chemistry for 3-d year students
 specialty 226 Pharmacy (Language of instructions – English)
ΦΜ19(4,10Δ)ΑΗΓΛ –01-09
autumn semester, 2021-2022 a.y.

##	Date	Lecture Topic	Hours	Lecturer
MODULE 2. METABOLISM AND ITS REGULATION				
1.	02.09.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell.	1	ass.prof. Kravchenko G.B.
2.	16.09.2021	Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	1	ass.prof. Kravchenko G.B.
3	30.09.2021	Vitamins. Nomenclature and Classification of Vitamins, Chemical Structure and Vitamin`s Action Molecular Basis. Vitamin Deficiency.	1	as.prof. Kravchenko G.B.
4	28.09.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell.	1	ass.prof. Kravchenko G.B.
5	11.11.2021	General characteristics and classification of hormones and neurotransmitters. Endocrine dysfunction and their pharmaceutical treatment.	1	ass.prof. Kravchenko G.B.
6	25.11.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	1	ass.prof. Kravchenko G.B.
7	09.12.2021	Integration of metabolic pathways.	1	ass.prof. Kravchenko G.B.
8	23.12.2021	Integration of metabolic pathways.	1	ass.prof. Kravchenko G.B.
Total:			8	

Note: lectures are given on Tuesday from 12:50 to 13:35, A.1

Head of the Biological chemistry department,
 professor _____

Kravchenko V.M.



PRACTICAL TRAINING PLANNED SCHEDULE
on Biological Chemistry for 3-d year students
specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)
ФМ19(4,10д)АНГЛ-01
spring semester, 2021-2022 а.у.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1	03.09.2021	Conjugated proteins metabolism. Metabolism of Hemoproteins..	4	3	5
2	17.09.2021	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	3	5
3	01.10.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	3	5
		<i>Final content module control CM 3</i>		3	5
Total for CM 3				12	20
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4	15.10.2021	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	3	5
5	29.10.2021	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	6	10
6	12.11.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	3	5
7	26.11.2021	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	6	10
8	10.12.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	3	5
		<i>Final content module control CM 4</i>		3	5
Total for CM 4				24	40
9	24.12.2021	<i>Final Module 2 control: « Metabolism and its regulation»</i>	4	25	40
		<i>Improving of Module 2 rating « Metabolism and its regulation»</i>			
TOTAL RATING FOR MODULE 2:			36	60	100

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PRACTICAL TRAINING PLANNED SCHEDULE
 on Biological Chemistry for 3-d year students
 specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)
ФМ19(4,10д)АНГЛ-02
 spring semester, 2021-2022 а.у.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1	10.09.2021	Conjugated proteins metabolism. Metabolism of Hemoproteins..	4	3	5
2	24.09.2021	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	3	5
3	08.10.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	3	5
		<i>Final content module control CM 3</i>		3	5
Total for CM 3				12	20
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4	22.10.2021	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	3	5
5	05.11.2021	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	6	10
6	19.11.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	3	5
7	03.12.2021	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	6	10
8	17.12.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	3	5
		<i>Final content module control CM 4</i>		3	5
Total for CM 4				24	40
9	14.01.2022	<i>Final Module 2 control: « Metabolism and its regulation»</i>	4	25	40
		<i>Improving of Module 2 rating « Metabolism and its regulation»</i>			
TOTAL RATING FOR MODULE 2:			36	60	100

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 specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)
ФМ19(4,10д)АНГЛ-03
 spring semester, 2021-2022 а.у.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1	13.09.2021	Conjugated proteins metabolism. Metabolism of Hemoproteins..	4	3	5
2	27.09.2021	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	3	5
3	11.10.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	3	5
		<i>Final content module control CM 3</i>		3	5
Total for CM 3				12	20
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4	25.10.2021	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	3	5
5	08.11.2021	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	6	10
6	22.11.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	3	5
7	06.12.2021	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	6	10
8	20.12.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	3	5
		<i>Final content module control CM 4</i>		3	5
Total for CM 4				24	40
9	03.01.2022	<i>Final Module 2 control: « Metabolism and its regulation»</i>	4	25	40
		<i>Improving of Module 2 rating « Metabolism and its regulation»</i>			
TOTAL RATING FOR MODULE 2:			36	60	100

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PRACTICAL TRAINING PLANNED SCHEDULE
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 specialty 226 Pharmacy, industrial pharmacy (Language of instructions – English)
ФМ19(4,10д)АНГЛ-04
 spring semester, 2021-2022 а.у.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1	06.09.2021	Conjugated proteins metabolism. Metabolism of Hemoproteins..	4	3	5
2	20.09.2021	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	3	5
3	04.10.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	3	5
		<i>Final content module control CM 3</i>		3	5
Total for CM 3				12	20
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4	18.10.2021	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	3	5
5	01.11.2021	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	6	10
6	15.11.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	3	5
7	29.11.2021	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	6	10
8	13.12.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	3	5
		<i>Final content module control CM 4</i>		3	5
Total for CM 4				24	40
9	10.01.2022	<i>Final Module 2 control: « Metabolism and its regulation»</i>	4	25	40
		<i>Improving of Module 2 rating « Metabolism and its regulation»</i>			
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ФМ19(4,10д)АНГЛ-05
 spring semester, 2021-2022 а.у.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1	14.09.2021	Conjugated proteins metabolism. Metabolism of Hemoproteins..	4	3	5
2	28.09.2021	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	3	5
3	12.10.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	3	5
		<i>Final content module control CM 3</i>		3	5
Total for CM 3				12	20
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4	26.10.2021	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	3	5
5	09.11.2021	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	6	10
6	23.11.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	3	5
7	07.12.2021	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	6	10
8	21.12.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	3	5
		<i>Final content module control CM 4</i>		3	5
Total for CM 4				24	40
9	04.01.2022	<i>Final Module 2 control: « Metabolism and its regulation»</i>	4	25	40
		<i>Improving of Module 2 rating « Metabolism and its regulation»</i>			
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ФМ19(4,10д)АНГЛ-06
 spring semester, 2021-2022 а.у.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1	07.09.2021	Conjugated proteins metabolism. Metabolism of Hemoproteins..	4	3	5
2	21.09.2021	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	3	5
3	05.10.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	3	5
		<i>Final content module control CM 3</i>		3	5
Total for CM 3				12	20
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4	19.10.2021	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	3	5
5	02.11.2021	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	6	10
6	16.11.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	3	5
7	30.11.2021	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	6	10
8	14.12.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	3	5
		<i>Final content module control CM 4</i>		3	5
Total for CM 4				24	40
9	11.01.2022	<i>Final Module 2 control: « Metabolism and its regulation»</i>	4	25	40
		<i>Improving of Module 2 rating « Metabolism and its regulation»</i>			
TOTAL RATING FOR MODULE 2:			36	60	100

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ФМ19(4,10д)АНГЛ-07
spring semester, 2021-2022 а.у.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1	01.09.2021	Conjugated proteins metabolism. Metabolism of Hemoproteins..	4	3	5
2	15.09.2021	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	3	5
3	29.09.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	3	5
		<i>Final content module control CM 3</i>		3	5
Total for CM 3				12	20
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4	13.10.2021	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	3	5
5	27.10.2021	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	6	10
6	10.11.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	3	5
7	24.11.2021	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	6	10
8	08.12.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	3	5
		<i>Final content module control CM 4</i>		3	5
Total for CM 4				24	40
9	22.12.2021	<i>Final Module 2 control: « Metabolism and its regulation»</i>	4	25	40
		<i>Improving of Module 2 rating « Metabolism and its regulation»</i>			
TOTAL RATING FOR MODULE 2:			36	60	100

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ФМ19(4,10д)АНГЛ-08
 spring semester, 2021-2022 а.у.

##	Date	Topic	Hours	Points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1	08.09.2021	Conjugated proteins metabolism. Metabolism of Hemoproteins..	4	3	5
2	22.09.2021	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	3	5
3	06.09.2021	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	3	5
		<i>Final content module control CM 3</i>		3	5
Total for CM 3				12	20
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4	20.10.2021	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	3	5
5	03.10.2021	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	6	10
6	17.11.2021	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	3	5
7	01.12.2021	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	6	10
8	15.12.2021	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	3	5
		<i>Final content module control CM 4</i>		3	5
Total for CM 4				24	40
9	12.01.2022	<i>Final Module 2 control: « Metabolism and its regulation»</i>	4	25	40
		<i>Improving of Module 2 rating « Metabolism and its regulation»</i>			
TOTAL RATING FOR MODULE 2:			36	60	100

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