



**LECTURES PLANNED SCHEDULE**  
 on Biological chemistry for 3-d year students  
 speciality 226 Pharmacy (Language of instructions – English)  
ΦΜ17(5,0)ΑΗΓΛ -01-08  
 spring semester, 2019-2020 a.y.

| ##  | Date       | Lecture Topic  | Hours | Lecturer                 |
|---|------------|--|-------|--------------------------|
| <b>MODULE 2. METABOLISM AND ITS REGULATION.</b> |            |  |       |                          |
| 1.  | 29.01.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones.   | 1     | as.prof. Kravchenko G.B. |
| 2.  | 29.01.2020 | Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction.                                    | 1     | as.prof. Kravchenko G.B. |
| 3.  | 12.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 1     | as.prof. Kravchenko G.B. |
| 4.  | 12.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 1     | as.prof. Kravchenko G.B. |
| 5.  | 26.02.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 1     | as.prof. Kravchenko G.B. |
| 6.  | 26.02.2020 | General Amino Acid Pathways, There Regulation and Pathology. Digestion of proteins in the stomach and small intestine. Protein putrifaction. | 1     | as.prof. Kravchenko G.B. |
| 7.  | 11.03.2020 | Metabolism of proteins and amino acids.  | 1     | as.prof. Kravchenko G.B. |
| 8.  | 11.03.2020 | Ammonia toxicity and urea formation.   | 1     | as.prof. Kravchenko G.B. |
| 9   | 25.03.2020 | Metabolism of conjugated proteins. Heme metabolism. Heme biosynthesis disorders. Bilirubin formation . jaundices.                            | 1     | as.prof. Kravchenko G.B. |
| 10  | 25.03.2020 | Pyrimidine and purine metabolism. Disorders.   | 1     | as.prof. Kravchenko G.B. |
| 11  | 08.04.2020 | Transfer of Genetic Information. Replication and DNA repair.   | 1     | as.prof. Kravchenko G.B. |
| 12  | 08.04.2020 | Molecular basis of transcription. Genetic code.  | 1     | as.prof. Kravchenko G.B. |
| 13  | 22.04.2020 | Protein Biosynthesis in the Cell.  | 1     | as.prof. Kravchenko G.B. |
| 14  | 22.04.2020 | Mechanisms of Protein Biosynthesis Regulation. Antibiotics.  | 1     | as.prof. Kravchenko G.B. |
| 15  | 06.05.2020 | Mutations. Molecular pathology.  | 1     | as.prof. Kravchenko G.B. |
| 16  | 06.05.2020 | Principles of treatment and prevention of molecular diseases.  | 1     | as.prof. Kravchenko G.B. |
| <b>Total:</b>                                   |            |  | 16    |                          |

*Note:* lectures are given on Wednsdays from 12:50 P.M. to 14:30 P.M. in lecture hall № 1.

Head of the biological chemistry department,  
 ass.prof .

\_\_\_\_\_ Kravchenko G.B.



**PRACTICAL TRAINING PLANNED SCHEDULE**

on Biological Chemistry for 3-d year students

speciality 226 Pharmacy, industrial pharmacy (Language of instructions – English)

ФМ17(5,0д)АНГЛ-06

spring semester, 2019-2020 а.у.

| ##   | Date       | Topic  | Hours     | Points    |            |
|--|------------|--|-----------|-----------|------------|
|  |            |  |           | min       | max        |
| <b>CONTENT MODULE 3. GENERAL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.</b> |            |  |           |           |            |
| 1.   | 20.01.2020 | Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.   | 4         | 3         | 5          |
| 2.   | 03.02.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction. | 4         | 4         | 6          |
|  |            | <i>Final content module control CM3</i>  |           |           |            |
| <b>Total for CM3</b>   |            |  |           | 9         | 15         |
| <b>CONTENT MODULE 4. SOME METABOLIC PROCESSES</b>                                |            |  |           |           |            |
| 3.   | 17.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 4         | 3         | 6          |
| 4.   | 02.03.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 4         | 3         | 6          |
| 5.   | 16.03.2020 | Digestion of proteins in the stomach and small intestine. Protein putrifaction.  | 4         | 1         | 3          |
| 6.   | 30.03.2020 | Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.   | 4         | 2         | 3          |
| 7.   | 13.04.2020 | Metabolism of Heme and Nucleoproteins.   | 4         | 3         | 5          |
| 8.   | 27.04.2020 | Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.   | 4         | 4         | 6          |
|  |            | <i>Final content module control CM4</i>  |           |           |            |
| <b>Total for CM4</b>   |            |  |           | 25        | 45         |
|  | 11.05.2020 | <i>Final module 2 control: "Metabolism and its regulation".</i>  | 4         | 25        | 40         |
|  | 12.05.2020 | <i>Module 2 rating improvement: "Metabolism and its regulation".</i>   |           |           |            |
| <b>TOTAL RATING FOR MODULE 2:</b>  |            |  | <b>36</b> | <b>60</b> | <b>100</b> |

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### PRACTICAL TRAINING PLANNED SCHEDULE

on Biological Chemistry for 3-d year students  
speciality 226 Pharmacy, industrial pharmacy (Language of instructions – English)

ФМ17(5,0д)АНГЛ-08

spring semester, 2019-2020 а.у.

| ##   | Date       | Topic  | Hours     | Points    |            |
|--|------------|--|-----------|-----------|------------|
|  |            |  |           | min       | max        |
| <b>CONTENT MODULE 3. GENERAL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.</b> |            |  |           |           |            |
| 1.   | 21.01.2020 | Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.   | 4         | 3         | 5          |
| 2.   | 04.02.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction. | 4         | 4         | 6          |
|  |            | <i>Final content module control CM3</i>  |           | 2         | 4          |
| <b>Total for CM3</b>   |            |  |           | 9         | 15         |
| <b>CONTENT MODULE 4. SOME METABOLIC PROCESSES</b>                                |            |  |           |           |            |
| 3.   | 18.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 4         | 3         | 6          |
| 4.   | 03.03.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 4         | 3         | 6          |
| 5.   | 17.03.2020 | Digestion of proteins in the stomach and small intestine. Protein putrifaction.  | 4         | 1         | 3          |
| 6.   | 31.03.2020 | Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.   | 4         | 2         | 3          |
| 7.   | 14.04.2020 | Metabolism of Heme and Nucleoproteins.   | 4         | 3         | 5          |
| 8.   | 28.04.2020 | Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.   | 4         | 4         | 6          |
|  |            | <i>Final content module control CM4</i>  |           | 10        | 16         |
| <b>Total for CM4</b>   |            |  |           | 25        | 45         |
|  | 12.05.2020 | <i>Final module 2 control: "Metabolism and its regulation".</i>  | 4         | 25        | 40         |
|  | 13.05.2020 | <i>Module 2 rating improvement: "Metabolism and its regulation".</i>   |           |           |            |
| <b>TOTAL RATING FOR MODULE 2:</b>  |            |  | <b>36</b> | <b>60</b> | <b>100</b> |

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**PRACTICAL TRAINING PLANNED SCHEDULE**

on Biological Chemistry for 3-d year students

speciality 226 Pharmacy, industrial pharmacy (Language of instructions – English)

ФМ17(5,0д)АНГЛ-02

spring semester, 2019-2020 а.у.

| ##   | Date       | Topic  | Hours     | Points    |            |
|--|------------|--|-----------|-----------|------------|
|  |            |  |           | min       | max        |
| <b>CONTENT MODULE 3. GENERAL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.</b> |            |  |           |           |            |
| 1.   | 23.01.2020 | Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.   | 4         | 3         | 5          |
| 2.   | 06.02.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction. | 4         | 4         | 6          |
|  |            | <i>Final content module control CM3</i>  |           | 2         | 4          |
| <b>Total for CM3</b>   |            |  |           | 9         | 15         |
| <b>CONTENT MODULE 4. SOME METABOLIC PROCESSES</b>                                |            |  |           |           |            |
| 3.   | 20.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 4         | 3         | 6          |
| 4.   | 05.03.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 4         | 3         | 6          |
| 5.   | 19.03.2020 | Digestion of proteins in the stomach and small intestine. Protein putrifaction.  | 4         | 1         | 3          |
| 6.   | 02.04.2020 | Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.   | 4         | 2         | 3          |
| 7.   | 16.04.2020 | Metabolism of Heme and Nucleoproteins.   | 4         | 3         | 5          |
| 8.   | 30.04.2020 | Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.   | 4         | 4         | 6          |
|  |            | <i>Final content module control CM4</i>  |           | 10        | 16         |
| <b>Total for CM4</b>   |            |  |           | 25        | 45         |
|  | 14.05.2020 | <i>Final module 2 control: "Metabolism and its regulation".</i>  | 4         | 25        | 40         |
|  | 15.05.2020 | <i>Module 2 rating improvement: "Metabolism and its regulation".</i>   |           |           |            |
| <b>TOTAL RATING FOR MODULE 2:</b>  |            |  | <b>36</b> | <b>60</b> | <b>100</b> |

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on Biological Chemistry for 3-d year students

speciality 226 Pharmacy, industrial pharmacy (Language of instructions – English)

ФМ17(5,0д)АНГЛ-04

spring semester, 2019-2020 а.у.

| ##   | Date       | Topic  | Hours     | Points    |            |
|--|------------|--|-----------|-----------|------------|
|  |            |  |           | min       | max        |
| <b>CONTENT MODULE 3. GENERAL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.</b> |            |  |           |           |            |
| 1.   | 24.01.2020 | Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.   | 4         | 3         | 5          |
| 2.   | 07.02.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction. | 4         | 4         | 6          |
|  |            | <i>Final content module control CM3</i>  |           |           |            |
| <b>Total for CM3</b>   |            |  |           | 9         | 15         |
| <b>CONTENT MODULE 4. SOME METABOLIC PROCESSES</b>                                |            |  |           |           |            |
| 3.   | 21.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 4         | 3         | 6          |
| 4.   | 06.03.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 4         | 3         | 6          |
| 5.   | 20.03.2020 | Digestion of proteins in the stomach and small intestine. Protein putrifaction.  | 4         | 1         | 3          |
| 6.   | 03.04.2020 | Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.   | 4         | 2         | 3          |
| 7.   | 17.04.2020 | Metabolism of Heme and Nucleoproteins.   | 4         | 3         | 5          |
| 8.   | 01.05.2020 | Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.   | 4         | 4         | 6          |
|  |            | <i>Final content module control CM4</i>  |           |           |            |
| <b>Total for CM4</b>   |            |  |           | 25        | 45         |
| 9  | 15.05.2020 | <i>Final module 2 control: "Metabolism and its regulation".</i>  | 4         | 25        | 40         |
| 10   | 18.05.2020 | <i>Module 2 rating improvement: "Metabolism and its regulation".</i>   |           |           |            |
| <b>TOTAL RATING FOR MODULE 2:</b>  |            |  | <b>36</b> | <b>60</b> | <b>100</b> |

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on Biological Chemistry for 3-d year students

speciality 226 Pharmacy, industrial pharmacy (Language of instructions – English)

ФМ17(5,0д)АНГЛ-05

spring semester, 2019-2020 а.у.

| ##   | Date       | Topic  | Hours     | Points    |            |
|--|------------|--|-----------|-----------|------------|
|  |            |  |           | min       | max        |
| <b>CONTENT MODULE 3. GENERAL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.</b> |            |  |           |           |            |
| 1.   | 27.01.2020 | Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.   | 4         | 3         | 5          |
| 2.   | 10.02.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction. | 4         | 4         | 6          |
|  |            | <i>Final content module control CM3</i>  |           | 2         | 4          |
| <b>Total for CM3</b>   |            |  |           | 9         | 15         |
| <b>CONTENT MODULE 4. SOME METABOLIC PROCESSES</b>                                |            |  |           |           |            |
| 3.   | 24.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 4         | 3         | 6          |
| 4.   | 09.03.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 4         | 3         | 6          |
| 5.   | 23.03.2020 | Digestion of proteins in the stomach and small intestine. Protein putrifaction.  | 4         | 1         | 3          |
| 6.   | 06.04.2020 | Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.   | 4         | 2         | 3          |
| 7.   | 20.04.2020 | Metabolism of Heme and Nucleoproteins.   | 4         | 3         | 5          |
| 8.   | 04.05.2020 | Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.   | 4         | 4         | 6          |
|  |            | <i>Final content module control CM4</i>  |           | 10        | 16         |
| <b>Total for CM4</b>   |            |  |           | 25        | 45         |
| 9  | 18.05.2020 | <i>Final module 2 control: "Metabolism and its regulation".</i>  | 4         | 25        | 40         |
| 10   | 19.05.2020 | <i>Module 2 rating improvement: "Metabolism and its regulation".</i>   |           |           |            |
| <b>TOTAL RATING FOR MODULE 2:</b>  |            |  | <b>36</b> | <b>60</b> | <b>100</b> |

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**PRACTICAL TRAINING PLANNED SCHEDULE**

on Biological Chemistry for 3-d year students

speciality 226 Pharmacy, industrial pharmacy (Language of instructions – English)

ФМ17(5,0д)АНГЛ-07

spring semester, 2019-2020 а.у.

| ##   | Date       | Topic  | Hours     | Points    |            |
|--|------------|--|-----------|-----------|------------|
|  |            |  |           | min       | max        |
| <b>CONTENT MODULE 3. GENERAL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.</b> |            |  |           |           |            |
| 1.   | 28.01.2020 | Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.   | 4         | 3         | 5          |
| 2.   | 11.02.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction. | 4         | 4         | 6          |
|  |            | <i>Final content module control CM3</i>  |           |           |            |
| <b>Total for CM3</b>   |            |  |           | 9         | 15         |
| <b>CONTENT MODULE 4. SOME METABOLIC PROCESSES</b>                                |            |  |           |           |            |
| 3.   | 25.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 4         | 3         | 6          |
| 4.   | 10.03.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 4         | 3         | 6          |
| 5.   | 24.03.2020 | Digestion of proteins in the stomach and small intestine. Protein putrifaction.  | 4         | 1         | 3          |
| 6.   | 07.04.2020 | Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.   | 4         | 2         | 3          |
| 7.   | 21.04.2020 | Metabolism of Heme and Nucleoproteins.   | 4         | 3         | 5          |
| 8.   | 05.05.2020 | Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.   | 4         | 4         | 6          |
|  |            | <i>Final content module control CM4</i>  |           |           |            |
| <b>Total for CM4</b>   |            |  |           | 25        | 45         |
| 9  | 19.05.2020 | <i>Final module 2 control: "Metabolism and its regulation".</i>  | 4         | 25        | 40         |
| 10   | 20.05.2020 | <i>Module 2 rating improvement: "Metabolism and its regulation".</i>   |           |           |            |
| <b>TOTAL RATING FOR MODULE 2:</b>  |            |  | <b>36</b> | <b>60</b> | <b>100</b> |

Head of the biological chemistry department,  
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### PRACTICAL TRAINING PLANNED SCHEDULE

on Biological Chemistry for 3-d year students

speciality 226 Pharmacy, industrial pharmacy (Language of instructions – English)

ФМ17(5,0д)АНГЛ-01

spring semester, 2019-2020 а.у.

| ##   | Date       | Topic  | Hours     | Points    |            |
|--|------------|--|-----------|-----------|------------|
|  |            |  |           | min       | max        |
| <b>CONTENT MODULE 3. GENERAL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.</b> |            |  |           |           |            |
| 1.   | 30.01.2020 | Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.   | 4         | 3         | 5          |
| 2.   | 13.02.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction. | 4         | 4         | 6          |
|  |            | <i>Final content module control CM3</i>  |           |           |            |
| <b>Total for CM3</b>   |            |  |           | 9         | 15         |
| <b>CONTENT MODULE 4. SOME METABOLIC PROCESSES</b>                                |            |  |           |           |            |
| 3.   | 27.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 4         | 3         | 6          |
| 4.   | 12.03.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 4         | 3         | 6          |
| 5.   | 26.03.2020 | Digestion of proteins in the stomach and small intestine. Protein putrifaction.  | 4         | 1         | 3          |
| 6.   | 09.04.2020 | Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.   | 4         | 2         | 3          |
| 7.   | 23.04.2020 | Metabolism of Heme and Nucleoproteins.   | 4         | 3         | 5          |
| 8.   | 07.05.2020 | Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.   | 4         | 4         | 6          |
|  |            | <i>Final content module control CM4</i>  |           |           |            |
| <b>Total for CM4</b>   |            |  |           | 25        | 45         |
| 9  | 21.05.2020 | <i>Final module 2 control: "Metabolism and its regulation".</i>  | 4         | 25        | 40         |
| 10   | 22.05.2020 | <i>Module 2 rating improvement: "Metabolism and its regulation".</i>   |           |           |            |
| <b>TOTAL RATING FOR MODULE 2:</b>  |            |  | <b>36</b> | <b>60</b> | <b>100</b> |

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**PRACTICAL TRAINING PLANNED SCHEDULE**  
 on Biological Chemistry for 3-d year students  
 speciality 226 Pharmacy, industrial pharmacy (Language of instructions – English)

**ФМ17(5,0д)АНГЛ-07**

spring semester, 2019-2020 а.у.

| ##   | Date       | Topic  | Hours     | Points    |            |
|--|------------|--|-----------|-----------|------------|
|  |            |  |           | min       | max        |
| <b>CONTENT MODULE 3. GENERAL PRINCIPLES OF CELLULAR METABOLISM ORGANISATION.</b> |            |  |           |           |            |
| 1.   | 31.01.2020 | Principles of Cell Signaling. Pathways of Intracellular Signal Transduction.   | 4         | 3         | 5          |
| 2.   | 14.02.2020 | Hormones and Neuromediators. Endocrine Glands. Classification of Hormones. Hyper- and Hypofunctions of Endocrine Glands. Endocrine Glands Functional Disorders and There Correction. | 4         | 4         | 6          |
|  |            | <i>Final content module control CM3</i>  |           | 2         | 4          |
| <b>Total for CM3</b>   |            |  |           | 9         | 15         |
| <b>CONTENT MODULE 4. SOME METABOLIC PROCESSES</b>                                |            |  |           |           |            |
| 3.   | 28.02.2020 | Carbohydrate Metabolism, Its Regulation and Pathology.   | 4         | 3         | 6          |
| 4.   | 13.03.2020 | Lipid Metabolism, Its Regulation and Pathology.  | 4         | 3         | 6          |
| 5.   | 27.03.2020 | Digestion of proteins in the stomach and small intestine. Protein putrifaction.  | 4         | 1         | 3          |
| 6.   | 10.04.2020 | Metabolism of proteins and amino acids. Ammonia toxicity and urea formation.   | 4         | 2         | 3          |
| 7.   | 24.04.2020 | Metabolism of Heme and Nucleoproteins.   | 4         | 3         | 5          |
| 8.   | 08.05.2020 | Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.   | 4         | 4         | 6          |
|  |            | <i>Final content module control CM4</i>  |           | 10        | 16         |
| <b>Total for CM4</b>   |            |  |           | 25        | 45         |
| 9  | 22.05.2020 | <i>Final module 2 control: "Metabolism and its regulation".</i>  | 4         | 25        | 40         |
| 10   | 23.05.2020 | <i>Module 2 rating improvement: "Metabolism and its regulation".</i>   |           |           |            |
| <b>TOTAL RATING FOR MODULE 2:</b>  |            |  | <b>36</b> | <b>60</b> | <b>100</b> |

Head of the biological chemistry department,  
 ass.prof . \_\_\_\_\_

Kravchenko G.B.