

HIGHER STATE EDUCATIONAL ESTABLISHMENT  
OF UKRAINE

# “BUKOVINIAN STATE MEDICAL UNIVERSITY”

COURSE CATALOGUE



CHERNIVTSI, UKRAINE

[www.bsmu.edu.ua](http://www.bsmu.edu.ua)

# ANNUAL CURRICULUM FOR GENERAL MEDICINE AND PEDIATRICS TRAINING

Studying in General Medicine or Pediatrics specialities lasts for six years and includes learning of the following subjects and courses, which are given below in the curriculum.

## THE FIRST YEAR OF STUDY

Educational weeks – 40

|     | SUBJECT  | ECTS   |           |       |
|-----|--|--------|-----------|-------|
|     |  | I sem. | II sem.   | Mod.* |
| 1.  | Latin and Medical Terminology                          | 2,5    | 1,5       | 2     |
| 2.  | Ukrainian Language                                     | 9      | 3,5       | 1     |
| 3.  | History of Ukraine                                     | 2,5    |           |       |
| 4.  | History of Ukrainian Culture                           | 2,5    |           |       |
| 5.  | History of Medicine                                    | 2      |           |       |
| 6.  | Fundamentals of Psychology. Fundamentals of Pedagogics |        | 1,5       |       |
| 7.  | Medical Biology  | 2,5    | 3         | 2     |
| 8.  | Medical and Biological Physics                         | 3      | 2         | 2     |
| 9.  | Medical Chemistry                                      |        | 4,5       | 2     |
| 10. | Biological and Bioorganic Chemistry                    | 1,5    | 0,5       | 1     |
| 11. | Human Anatomy  | 6      | 5         | 2     |
| 12. | Histology, Cytology and Embryology                     |        | 7         | 1     |
| 13. | Physical Training (PT)                                 |        |           |       |
|     | <b>TOTAL</b>   |        | <b>60</b> |       |

*Students get knowledge of Latin terminology during the first academic year, and have the possibility to learn basics of the Ukrainian language for assimilation with the inhabitants of the city and facilitation of extra-curricular activities.*

*\*Mod. – number of modules*

## THE SECOND YEAR OF STUDY

Educational weeks – 40



MEDICINE

|     | SUBJECTS   | ECTS      |         | Mod.* |
|-----|--|-----------|---------|-------|
|     |  | I sem.    | II sem. |       |
| 1.  | Ukrainian Language   | 5         | 6       | 2     |
| 2.  | Philosophy   | 3         |         | 1     |
| 3.  | Human Anatomy  | 3,5       |         | 1     |
| 4.  | Histology, Cytology and Embryology   | 4,5       |         | 1     |
| 5.  | Physiology   | 5,5       | 4,5     | 2     |
| 6.  | Biological and Bioorganic Chemistry  | 4         | 3       | 2     |
| 7.  | Microbiology, Virology and Immunology                                      |           | 6       | 2     |
| 8.  | General Surgery (with Operative Surgery and Topographical Anatomy)         |           | 2,5     | 1     |
| 9.  | Medical Computer Science   |           | 3,5     |       |
| 10. | Patients' Care (practical training)  | 2,5       | 2,5     | 1     |
| 11. | Emergency Medicine   | 1         | 1       | 1     |
| 12. | Personal and Social Safety, Fundamentals of Occupational Health and Safety | 2         |         |       |
| 13. | Physical Training (PT)   |           |         |       |
|     | <b>TOTAL</b>   | <b>60</b> |         |       |

*First three years of study include mostly basic pre-clinical subjects: Anatomy, Histology, Physiology, Pathology, Microbiology, Immunology, Psychology, Chemistry, Biochemistry, Genetics, General Biology, Biophysics, Embryology, Cytology, Pharmacology.*

*\*Mod. – number of modules*





## THE THIRD YEAR OF STUDY

Educational weeks – 40



MEDICINE

|  | SUBJECTS  | ECTS      |         | Mod.* |
|--|---|-----------|---------|-------|
|  |   | I sem.    | II sem. |       |
| 1.   | Microbiology, Virology and Immunology   | 2         |         | 1     |
| 2.   | Pathomorphology   | 3,5       | 3,5     | 2     |
| 3.   | Pathophysiology   | 3,5       | 3,5     | 2     |
| 4.   | Pharmacology  | 3,5       | 3,5     | 2     |
| 5.   | Hygiene and Ecology   | 3         | 3       | 2     |
| 6.   | Propaedeutics of Internal Medicine  | 3,5       | 3       | 2     |
| 7.   | Propaedeutics of Pediatrics   | 3,5       | 3       | 2     |
| 8.   | General Surgery, including:<br>- General Surgery<br>- Operative Surgery and Topographic Anatomy | 3,5       | 3       | 4     |
| 9.   | Radiology   | 2         | 2       | 1     |
| 10.  | Nursing Practice  | 1,5       | 2,5     | 1     |
| 11.  | Fundamentals of Bioethics and Biosafety   |           | 1,5     |       |
| 12.  | Ukrainian language  |           | 2       |       |
|  | <b>TOTAL</b>  | <b>60</b> |         |       |
| The first week after the 6 <sup>th</sup> semester of studying students must take a medical licensed exam “Krok 1. General Medical Training”. |   |           |         |       |

*Obtained knowledge will lead you to profound understanding of human body structure, factors influencing its functioning, and principles of diseases origin. This knowledge is considered to be the basis in formation of a future physician.*

*\*Mod. – number of modules*



# THE FOURTH YEAR OF STUDY

Educational weeks – 40



MEDICINE

|     | SUBJECTS   | ECTS      |            | Mod.* |
|-----|--|-----------|------------|-------|
|     |  | I sem.    | II sem.    |       |
| 1.  | Internal Medicine (including Endocrinology)            | 4         | 4,5        | 1     |
| 2.  | Phthisiology   |           | 3          | 1     |
| 3.  | Pediatrics   | 2,25      | 2,25       | 1     |
| 4.  | Surgery  | 2,25      | 2,25       | 1     |
| 5.  | Obstetrics and Gynecology                              | 2         | 1          | 1     |
| 6.  | Social Medicine, Organization of Public Health Service |           | 3          | 1     |
| 7.  | Biostatistics  | 1,5       |            |       |
| 8.  | Urology  |           | 3          | 1     |
| 9.  | Otolaryngology   |           | 3          | 1     |
| 10. | Ophthalmology  | 3         |            | 1     |
| 11. | Neurology  | 2,5       | 3          | 2     |
| 12. | Medical Psychology                                     |           | 1,5        |       |
| 13. | Psychiatrics and Addictology                           | 2         | 2,5        | 2     |
| 14. | Dermatology and Venereology                            | 1,5       | 1,5        | 1     |
| 15. | Physical Rehabilitation, Sports Medicine               | 2         |            | 1     |
| 16. | Forensic Medicine                                      | 3         |            | 1     |
| 17. | Medical Law  | 1.5       |            |       |
| 18. | Ukrainian Language                                     | 1,5       |            |       |
| 19. | Civil Defence  | 0,5       |            |       |
|     | <b>TOTAL</b>   | <b>60</b> |            |       |
|     | <b>Practical Training (4 weeks)</b>                    |           | <b>180</b> |       |

*Practical Training lasts four weeks (for one week in four departments: Therapy, Surgery, Pediatrics, Obstetrics Departments) and is held in summer.*

*\*Mod. – number of modules*

# THE FIFTH YEAR OF STUDY

Educational weeks – 40



MEDICINE

|     | SUBJECTS   | ECTS      |            | Mod.* |
|-----|--|-----------|------------|-------|
|     |  | I sem.    | II sem.    |       |
| 1.  | Internal Medicine                                      | 4         | 4,5        | 1     |
| 2.  | Infectious Diseases                                    | 4,5       | 1,5        | 1     |
| 3.  | Epidemiology   |           | 1,5        | 1     |
| 4.  | Professional Diseases                                  |           | 2          | 1     |
| 5.  | Oncology   | 3         |            | 1     |
| 6.  | Clinical Pharmacology                                  |           | 1,5        | 1     |
| 7.  | Pediatrics, Children's Infectious Diseases             | 2,5       | 3,5        | 3     |
| 8.  | Medical Genetics                                       | 1,5       |            | 1     |
| 9.  | Social Medicine, Organization of Public Health Service | 1,5       |            | 1     |
| 10. | Surgery, Children's Surgery                            | 3,25      | 3,25       | 2     |
| 11. | Traumatology and Orthopedics                           | 3         |            | 1     |
| 12. | Obstetrics and Gynecology                              | 2,25      | 2,25       | 2     |
| 13. | Clinical Immunology and Allergology                    | 2,5       |            | 1     |
| 14. | Anesthesiology and Intensive Therapy                   |           | 3          | 1     |
| 15. | Radiation Medicine                                     |           | 1,5        | 1     |
| 16. | Neurosurgery   |           | 1,5        | 1     |
| 17. | Fundamentals of Dentistry                              | 0,75      |            | 1     |
| 18. | Sectional course                                       | 0,75      |            | 1     |
| 19. | Optional course  |           | 2          |       |
|     | <b>TOTAL</b>   | <b>60</b> |            |       |
|     | <b>Practical Training (4 weeks)</b>                    |           | <b>180</b> |       |

*OPTIONAL COURSES: 1. Vascular Surgery. 2. Bioethics. 3. Topical Questions of Rheumatology. 4. Age Aspects of Pharmacotherapy. 5. Fundamentals of Sexology and Sexual Pathology. 6. Fundamentals of Reflexology. 7. Fundamentals of Gerontology and Geriatrics. 8. Instrumental Methods of Functional Diagnostics. 9. Topical Questions of Gastroenterology. 10. Topical Questions of Pulmonology. 11. Topical Problems of Phthisiology. 12. Clinical Laboratory Diagnostics. 13. Endoscopic Technologies in Obstetrics and Gynecology. 14. Topical Questions of Rehabilitation and Professional Training of Disabled People*

# THE SIXTH YEAR OF STUDY

## Educational weeks – 34



MEDICINE

|    | SUBJECTS  | ECTS      | HOURS                             |
|----|---|-----------|-----------------------------------|
| 1. | Internal Medicine, including:<br><br>Treatment of patients with diseases of the circulatory system and emergencies in cardiology and rheumatology<br><br>Treatment of patients in the Endocrinology Clinic and emergencies in endocrinology<br><br>Treatment of patients in the Hematology Clinic and emergencies in hematology                                     | 15        | 450<br><br>90<br><br>45<br><br>45 |
| 2. | Pediatrics and Children's Infectious Diseases   | 7,5       | 225                               |
| 3. | Surgery, Children's Surgery and Oncology  | 10,5      | 315                               |
| 4. | Obstetrics and Gynecology   | 7,5       | 225                               |
| 5. | General Practice (Family Medicine)  | 3         | 90                                |
| 6. | Hygiene and Ecology   | 2,25      | 68                                |
| 7. | Social Medicine, Organization and Economics of Public Health Service  | 2,25      | 68                                |
| 8. | Optional courses  | 4,5       | 135                               |
|    | State Examination   | 7,5       | 225                               |
|    | <b>TOTAL</b>  | <b>60</b> | <b>1801</b>                       |
|    | <b>State Examinations:</b> 1. Medical licensed exam "Krok 2. General Medical Training". 2. Internal, Professional and Infectious Diseases. 3. Surgical Disease with Children's Surgery. 4. Obstetrics and Gynecology. 5. Children's Diseases with Children's Infectious Diseases. 6. Hygiene, Social Medicine, Organization and Economics of Public Health Service. |           |                                   |

*OPTIONAL COURSES: 1. Organizational Fundamentals of Family Medicine. 2. Fundamentals of Transplantology. 3. Clinical Parasitology and Tropical Medicine. 4. Topical Problems of Infectious Diseases and HIV-infection. 5. Management and Marketing in Public Health. 6. Extreme Medicine. 7. Plastic and Reconstructive Surgery. 8. Topical Questions of Cardiac Surgery. 9. Palliative Surgery. 10. Topical Questions of Neurosurgery. 11. Topical Questions of Hematology and Transfusiology. 12. Topical Questions of Cardiology. 13. Topical Questions of Nephrology. 14. Emergency and First Medical Aid. 15. Foreign Language. 16. Topical Problems of Phthiology and Pulmonology. 17. Topical Questions of Dermatological Oncology.*



## ANNUAL CURRICULUM FOR PHARMACY TRAINING IN COLLEGE

Studying in Pharmacy speciality on educational and qualification level “Junior Specialist”, qualification “Pharmacist” lasts for two years and includes learning subjects and courses, given below in the curriculum.

### THE FIRST YEAR OF STUDY

Educational weeks – 36

|     | SUBJECT                                 | ECTS* | HOURS |
|-----|---|-------|-------|
| 1.  | Fundamentals of Philosophy              | 1,5   | 54    |
| 2.  | Culturology                             | 1,5   | 54    |
| 3.  | Physical Training (PT)                  | 4     | 144   |
| 4.  | Ukrainian Language                      | 4     | 144   |
| 5.  | Fundamentals of Law Science             | 1,5   | 54    |
| 6.  | History of Ukraine                      | 1,5   | 54    |
| 7.  | Botany                                  | 1,5   | 54    |
| 8.  | Inorganic Chemistry                     | 3,75  | 135   |
| 9.  | Anatomy with Fundamentals of Physiology | 3,75  | 135   |
| 10. | Hygiene and Ecology                     | 1,5   | 54    |
| 11. | Organic Chemistry                       | 3,75  | 135   |
| 12. | Fundamentals of Microbiology            | 1,5   | 54    |
| 13. | Analytical Chemistry                    | 3,75  | 135   |
| 14. | Latin Language                          | 3     | 108   |
| 15. | Technique of Laboratory Work            | 2,25  | 81    |
| 16. | First Medical Aid                       | 1,5   | 54    |
| 17. | Pharmacognosy                           | 3,25  | 117   |
| 18. | Technology of Drugs                     | 5,5   | 198   |
| 19. | Pharmacology                            | 2     | 72    |
| 20. | Organization and Economics of Pharmacy  | 3     | 108   |
|     | <b>Practical Training (2 weeks)</b>     |       |       |
|     | Propedeutic Training (1 week)           | 1,5   | 54    |
|     | Pharmacognostic Training (1 week)       | 1,5   | 54    |
|     | Examination Session                     | 3     | 108   |
|     | <b>TOTAL</b>                            | 60    | 2160  |



## THE SECOND YEAR OF STUDY

Educational weeks – 32



# THE CURRICULUM

|     | SUBJECTS   | ECTS | HOURS |
|-----|--|------|-------|
| 1.  | Physical Training (PT)   | 2    | 72    |
| 2.  | Ukrainian Language   | 1,5  | 54    |
| 3.  | Ukrainian Language   | 2    | 72    |
| 4.  | Sociology Study  | 1,5  | 54    |
| 5.  | Economic Theory  | 1,5  | 54    |
| 6.  | Life Safety  | 1,5  | 54    |
| 7.  | Personal and Social Safety, Fundamentals of Occupational Health and Safety | 1,5  | 54    |
| 8.  | Pharmaceutical Chemistry   | 6    | 216   |
| 9.  | Pharmacognosy  | 5,75 | 207   |
| 10. | Technology of Drugs  | 5    | 180   |
| 11. | Pharmacology   | 8,5  | 306   |
| 12. | Organization and Economics of Pharmacy                                     | 6,75 | 243   |
| 13. | Fundamentals of Management and Marketing in Pharmacy                       | 1,5  | 54    |
| 14. | Information Technology in Pharmacy   | 1,5  | 54    |
| 15. | Fundamentals of Medical and Pharmaceutical Merchandising                   | 1,5  | 54    |
|     | Technological Practical Training (2 weeks)                                 | 3    | 108   |
|     | Externship (4 weeks)   | 6    | 216   |
|     | Examination Session  | 3    | 108   |
|     | <b>TOTAL</b>   | 60   | 2160  |





# ANNUAL CURRICULUM FOR PHARMACY TRAINING AT THE UNIVERSITY

Studying in Pharmacy speciality on educational and qualification level “Specialist”, lasts for five years and includes learning of the following subjects and courses, which are given below in the curriculum.

## THE FIRST YEAR OF STUDY

Educational weeks – 40

|     | SUBJECT  | ECTS* | HOURS |
|-----|--|-------|-------|
| 1.  | Ukrainian Language   | 3     | 108   |
| 2.  | Ukrainian Language   | 5     | 180   |
| 3.  | Ukrainian History  | 3     | 108   |
| 4.  | History of Ukrainian Culture                                   | 2     | 72    |
| 5.  | Latin Language   | 4,5   | 162   |
| 6.  | Physiology   | 4     | 144   |
| 7.  | Human Anatomy  | 3,5   | 126   |
| 8.  | Biology with Fundamentals of Genetics                          | 3     | 108   |
| 9.  | Biological Physics   | 4,5   | 162   |
| 10. | Higher Mathematics   | 4,5   | 162   |
| 11. | History of Medicine and Pharmacy                               | 1,5   | 54    |
| 12. | Information Technology in Pharmacy                             | 3     | 108   |
| 13. | Inorganic Chemistry  | 8,5   | 306   |
| 14. | Fundamentals of Ecology  | 1,5   | 54    |
| 15. | Life Safety  | 2     | 72    |
| 16. | Propedeutic Training in Pharmaceutics<br>Technology of Drugs   | 2     | 72    |
| 17. | Introduction Practical Training in Medicine<br>and Life Safety | 2     | 72    |
| 18. | Optional Course  | 2     | 72    |
| 19. | Preparation for the final Module Control                       | 0,5   | 18    |
| 20. | Physical Training  |       | 160   |
|     | <b>TOTAL</b>   | 60    | 2320  |

*OPTIONAL COURSES: 1. Country study.*

*2. Psychology of communication.*

*3. Modern Civilization and Culture.*

*4. Problems of Intellectuals and  
Intellectuality.*

*5. Topical Questions of Molecular Biology.*

*6. European Standards of Computer Science.*

*7. Cellular Biology.*

*8. Physical Training and Health.*

*9. Valeology.*

*10. Theory and Practice of  
Professional Communication.*

*11. Law Study.*

*12. Religious Science.*

*13. Fundamentals of Constitutional  
Law.*

# THE SECOND YEAR OF STUDY

Educational weeks – 40



## THE CURRICULUM

|     | SUBJECTS  | ECTS | HOURS |
|-----|---|------|-------|
| 1.  | Ukrainian Language                                    | 3    | 108   |
| 2.  | Philosophy  | 3    | 108   |
| 3.  | Analytical Chemistry                                  | 9    | 324   |
| 4.  | Organic Chemistry                                     | 9    | 324   |
| 5.  | Physical and Colloid Chemistry                        | 3    | 108   |
| 6.  | Information Technology in Pharmacy                    | 2,5  | 90    |
| 7.  | Pharmaceutical Botany                                 | 7    | 252   |
| 8.  | Microbiology with Fundamentals of Immunology          | 4    | 144   |
| 9.  | Pathological Physiology                               | 6    | 216   |
| 10. | Physical Method of Analysis and Metrology             | 1,5  | 54    |
| 11. | First Medical Aid                                     | 3    | 108   |
| 12. | Introduction Medical Practice (educational)           | 2    | 72    |
| 13. | Politology Science                                    | 2    | 72    |
| 14. | Optional Course                                       | 2    | 72    |
| 15. | Field Practice of Pharmaceutical Botany (educational) | 3    | 108   |
| 16. | Physical Training                                     |      | 160   |
|     | <b>TOTAL</b>  | 60   | 2320  |

- OPTIONAL COURSES:**
1. *Logic, Formal Logic.*
  2. *European Standards of Computer Science.*
  3. *Fundamentals of System Analysis.*
  4. *Physical Training and Health.*
  5. *Fundamentals of Patenting.*
  6. *Foreign Language Study.*
  7. *Fundamentals of Pedagogic.*
  8. *Palliative Surgery.*
  9. *Fundamentals of Chemical Metrology.*
  10. *Esthetics.*
  11. *Ethics.*

# THE THIRD YEAR OF STUDY

Educational weeks – 40



## THE CURRICULUM

|     | SUBJECTS  | ECTS | HOURS |
|-----|---|------|-------|
| 1.  | Pharmaceutical Technology of Medical products   | 9    | 324   |
| 2.  | Physic and Colloid Chemistry                    | 2,5  | 90    |
| 3.  | Biological Chemistry                            | 6    | 216   |
| 4.  | Pharmaceutical Chemistry                        | 7,5  | 270   |
| 5.  | Microbiology with Fundamentals of Immunology    | 2,5  | 90    |
| 6.  | Pharmacognosy                                   | 9    | 324   |
| 7.  | Medical Ethics in Pharmacy                      | 1,5  | 54    |
| 8.  | Hygiene in Pharmacy                             | 2,5  | 90    |
| 9.  | Pharmacology                                    | 9,5  | 342   |
| 10. | Extreme Medicine                                | 1,5  | 54    |
| 11. | Fundamentals of Bioethics and Biological Safety | 1,5  | 54    |
| 12. | Optional Course (Functional Biochemistry)       | 2    | 72    |
| 13. | Optional Course                                 | 2    | 72    |
|     | <b>Educational Training in Pharmacognosy</b>    | 3    | 108   |
|     | <b>TOTAL</b>                                    | 60   | 2160  |

- OPTIONAL COURSES:**
1. *Cognitive Theory and Pharmacy.*
  2. *Ethical Problems in Pharmacy.*
  3. *Fundamentals of Social Psychology.*
  4. *Physical Training and Health.*
  5. *Adverse Drug Reaction.*
  6. *Pharmaceutical Aspects of Smoking, Alcohol Dependence, Toxicomania and Drug Addiction.*
  7. *Functional Biochemistry.*
  8. *Facts and Mechanisms of Pharmaceutical Activity and Drug Toxicity on the Pharmacokinetics Stages.*
  9. *Dermatology.*
  10. *Psychology.*
  11. *Economic Theory.*
  12. *Foreign Language.*
  13. *Ukrainian Language.*
  14. *Fundamentals of Christian Ethics and Morals.*



# THE FOURTH YEAR OF STUDY

## Educational weeks – 36



## THE CURRICULUM

|     | SUBJECTS   | ECTS      | HOURS       |
|-----|--|-----------|-------------|
| 1.  | Pharmaceutical Chemistry                                 | 7         | 252         |
| 2.  | Organization and Pharmacy Economics                      | 9,5       | 342         |
| 3.  | Clinical Pharmacy  | 4,5       | 162         |
| 4.  | Manufacturing Drug Process                               | 6         | 216         |
| 5.  | Management and Marketing in Pharmacy                     | 5,5       | 198         |
| 6.  | Medical and Pharmaceutical Merchandizing                 | 3         | 108         |
| 7.  | Toxicological Chemistry                                  | 2         | 72          |
| 8.  | Pharmacotherapy with Fundamentals of Pharmacokinetics    | 3         | 108         |
| 9.  | Computer Science in Pharmacy                             | 3         | 108         |
| 10. | Laboratory Diagnostics                                   | 3         | 108         |
| 11. | Civil Defense  | 0,5       | 18          |
| 12. | Pharmacoeconomics  | 2         | 72          |
| 13. | Optional Course (Pharmaceutical Aspects of Threpsology)  | 2         | 72          |
| 14. | Optional Course  | 2         | 72          |
| 15. | Licensed exam “Krok 1. Pharmacy”                         | 1         | 36          |
|     | <b>Practical Training</b>                                |           |             |
|     | Educational Training in Manufacturing Process (1week)    | 1,5       | 54          |
|     | Practical Training in Pharmaceutical Technology of Drugs | 4,5       | 162         |
|     | <b>TOTAL</b>   | <b>60</b> | <b>2160</b> |

**OPTIONAL COURSES:** 1. *Acute Problems of Biophysics.*

2. *Aromology in Cosmetology and in Aromatherapy.*

13. *Pharmaceutical Aspects of Threpsology (Dietary Supplement).*

4. *Training of Communication.*

5. *Physical Training and Health.*

6. *Fundamentals of Homeopathy.*

7. *Special Aspects of foreign economic activity of Pharmaceutical companies.*

8. *Theoretical Basement of Synthesis, the relation between structure and activity of Pharmaceutical products.*

9. *Modern Methods in Diagnostics of Biological systems.*

*and Quality Control.*

11. *Perfume and Cosmetic Products.*

12. *Phototherapy.*

3. *Pharmaceutical Aspects of*

*Smoking, Alcohol Dependence, Toxicomania and Drug Addiction.*

14. *Ukrainian Language.*

15. *Pharmaceutical aspects of Biological Safety.*

16. *Sociology Study.*

17. *Politology Study.*

18. *Fundamentals of Christian Ethics and Morals.*

19. *Clinical Pharmacology.*

20. *Ecological Ethics.*

10. *Optimization of production*

# THE FIFTH YEAR OF STUDY

Educational weeks – 25



## THE CURRICULUM

|     | SUBJECTS   | ECTS | HOURS |
|-----|--|------|-------|
| 1.  | Biopharmaceutics   | 1,5  | 54    |
| 2.  | Professional Safety  | 1    | 36    |
| 3.  | Patenting  | 1,5  | 54    |
| 4.  | Clinical Pharmacy  | 10,5 | 378   |
| 5.  | Pharmaceutics Law  | 2,5  | 90    |
| 6.  | Forensic Chemistry   | 6    | 216   |
| 7.  | Resource Studies of Medical Plants                                 | 2,5  | 90    |
| 8.  | Standardization of Pharmaceutical Products                         | 2    | 72    |
| 9.  | Technology of Pharmaceutical and Cosmetology Products              | 2,5  | 90    |
| 10. | Appropriate Practice in Pharmacy                                   | 3    | 108   |
| 11. | Optional Specialization  | 6    | 216   |
|     | <b>State Examination</b>   | 6    | 216   |
|     | incl. State Standardized Licensed Examination                      | 1,5  | 54    |
|     | <b>Practical Training</b>  |      |       |
|     | Educational Practice in Clinical Pharmacy                          | 1,5  | 54    |
|     | Work Experience Internship in Pharmaceutical Chemistry             | 4,5  | 162   |
|     | Work Experience Internship in Medicine and Public Health Service   | 4,5  | 162   |
|     | Work Experience Internship in Management and Marketing in Pharmacy | 3    | 108   |
|     | Work Experience Internship   | 1,5  | 54    |
|     | <b>TOTAL</b>   | 60   | 2160  |

**OPTIONAL COURSES:** 1. *Preproduction of Homeopathic Pharmaceutical Products.*  
 2. *Chemicotoxicological Production.*  
 3. *Technology of Homeopathic Pharmaceutical Products.*  
 4. *Medical Plants and Phototherapy.*  
 5. *Quality Control of Food and Food Supplements.*  
 6. *Quality Control of Pharmaceutical Products.*  
 7. *Production and use of Cosmetic Products.*  
 8. *Production of Homeopathic Pharmaceutical Products on the basis of Biotechnologies.*

9. *Activity organization and regulation of Pharmaceutical Companies.*  
 10. *Use of Drugs in Clinical Practice.*  
 11. *Pharmaceutical Enterprise.*  
 12. *Pharmaceutics Development.*  
 13. *Pharmaceutical Market Analysis.*  
 14. *Insurance Medicine and Pharmaeconomics.*  
 15. *Evidence-Based Medicine.*  
 16. *Fundamentals of immuno-prophylaxis.*

# ANNUAL CURRICULUM FOR DENTISTRY TRAINING

Studying in Dentistry speciality lasts for five years and includes learning of the following subjects and courses, which are given below in the curriculum.

## THE FIRST YEAR OF STUDY

Educational weeks – 40

|     | SUBJECT  | ECTS*     | HOURS       |
|-----|--|-----------|-------------|
| 1.  | Foreign Language                                 | 6         | 180         |
| 2.  | Latin and Medical Terminology                    | 4         | 120         |
| 3.  | Ukrainian Language                               | 3         | 90          |
| 4.  | History of Ukraine                               | 3         | 90          |
| 5.  | History of Ukrainian Culture                     | 2         | 60          |
| 6.  | History of Medicine                              | 2         | 60          |
| 7.  | Fundamentals of Psychology and Pedagogics        | 1,5       | 45          |
| 8.  | Politology                                       | 2         | 60          |
| 9.  | Medical Biology                                  | 4,5       | 135         |
| 10. | Medical and Biological Physics                   | 4,5       | 135         |
| 11. | Medical Chemistry                                | 3         | 90          |
| 12. | Bioorganic and Biological Chemistry              | 2,5       | 75          |
| 13. | Human Anatomy                                    | 10,5      | 315         |
| 14. | Histology, Cytology and Embryology               | 7         | 210         |
| 15. | Life Safety, Fundamentals of Occupational Safety | 2         | 60          |
| 16. | Optional course                                  | 2         | 60          |
| 17. | Physical Training (PT)                           |           | 160         |
| 18. | Preparation for the final module control         | 0,5       | 15          |
|     | <b>TOTAL</b>                                     | <b>60</b> | <b>1960</b> |

- OPTIONAL COURSES:**
1. *World Civilization.*
  2. *Study of local lore.*
  3. *European Standard of Computer Literacy.*
  4. *Psychology of Communication.*
  5. *Ethics.*
  6. *Esthetics.*
  7. *Topical Questions of Molecular Biology.*
  8. *Physical Education and Health.*
  9. *Law Science.*
  10. *Religion Studies.*
  11. *Sociology and Medical Sociology.*
  12. *Fundamentals of Economics.*
  13. *Fundamentals of Constitutional Law.*



# THE SECOND YEAR OF STUDY

Educational weeks – 40



## THE CURRICULUM

|     | SUBJECTS   | ECTS      | HOURS       |
|-----|--|-----------|-------------|
| 1.  | Foreign Language   | 3         | 90          |
| 2.  | Philosophy   | 3         | 90          |
| 3.  | Physiology   | 7         | 210         |
| 4.  | Bioorganic and Biological Chemistry                                | 6,5       | 195         |
| 5.  | Microbiology, Virology and Immunology                              | 6,5       | 195         |
| 6.  | General Surgery (with Operative Surgery and Topographical Anatomy) | 3,5       | 105         |
| 7.  | Medical Computer Science   | 3,5       | 105         |
| 8.  | Propaedeutics of Internal Medicine                                 | 1,5       | 45          |
| 9.  | Hygiene and Ecology  | 3         | 90          |
| 10. | Pathomorphology  | 2,5       | 75          |
| 11. | Pathophysiology  | 2,5       | 75          |
| 12. | Pharmacology   | 3         | 90          |
| 13. | Propaedeutics of Therapeutic Dentistry                             | 4,5       | 135         |
| 14. | Propaedeutics of Prosthetic Dentistry                              | 4,5       | 135         |
| 15. | Propaedeutics of Pediatric Therapeutic Dentistry                   | 3,5       | 105         |
| 16. | Optional course  | 2         | 60          |
| 17. | Physical Training (PT)   |           | 160         |
|     | <b>Practical Training – Patient care</b>                           | 3,5       | 105         |
|     | <b>Practical Training – Nursing in dental clinic</b>               | 3,5       | 105         |
|     | <b>TOTAL</b>   | <b>60</b> | <b>1960</b> |

**OPTIONAL COURSES:** 1. *European Standard of Computer Literacy.*

2. *Logic, Formal Logic.*

3. *Deontology in Medicine.*

4. *Physical Education and Health.*

5. *Topical Questions of Biophysics.*

6. *Second Foreign Language.*

7. *World Civilization.*

8. *Fundamentals of Patent Branch.*

9. *Basic Techniques of Dentures Manufacturing.*

10. *Cosmetology.*



# THE THIRD YEAR OF STUDY

Educational weeks – 40



## THE CURRICULUM

|     | SUBJECTS   | ECTS      | HOURS       |
|-----|--|-----------|-------------|
| 1.  | Pathomorphology  | 3         | 90          |
| 2.  | Pathophysiology  | 3         | 90          |
| 3.  | Pharmacology   | 2,5       | 75          |
| 4.  | Internal Medicine                                      | 4,5       | 135         |
| 5.  | Surgery  | 2,5       | 75          |
| 6.  | Social Medicine, Organization of Public Health Service | 1,5       | 45          |
| 7.  | Physical Rehabilitation, Sports Medicine               | 1,5       | 45          |
| 8.  | Radiology  | 4         | 120         |
| 9.  | Forensic Medicine (Dentistry)                          | 1,25      | 38          |
| 10. | Medical Law  | 1,5       | 45          |
| 11. | Section Course   | 0,75      | 23          |
| 12. | Prevention of Dental Diseases                          | 4,5       | 135         |
| 13. | Therapeutic Dentistry                                  | 9         | 270         |
| 14. | Surgical Dentistry                                     | 7,5       | 225         |
| 15. | Prosthetic Dentistry                                   | 7,5       | 225         |
| 16. | Orthodontics   | 4         | 120         |
| 17. | Fundamentals of Bioethics and Biosafety                | 1,5       | 45          |
| 18. | Optional course  | 2         | 60          |
| 19. | Attestation (Krok-1. Dentistry)                        | 0,5       | 15          |
|     | <b>Practical Medical Training</b>                      | 7         | 210         |
|     | <b>TOTAL</b>   | <b>60</b> | <b>1800</b> |

**OPTIONAL COURSES:** 1. *Modern Methods of Genetic Diagnosis.*

2. *Cognitive Theory and Medicine.*

3. *Ethical Problems in Medicine.*

4. *Fundamentals of Social Psychology.*

5. *Threpsology.*

6. *Drug Side-Effects.*

7. *Physical Education and Health.*

8. *Second Foreign Language.*

9. *Foreign Language (for Medicine).*

10. *Medicine and Literature.*

11. *Fundamentals of Gerontology and Geriatrics.*

12. *Fundamentals of Homeopathic Medicine.*

13. *Fundamentals of Christian Ethics and Morals.*

# THE FOURTH YEAR OF STUDY

## Educational weeks – 40



# THE CURRICULUM

|     | SUBJECTS                                    | ECTS      | HOURS       |
|-----|---|-----------|-------------|
| 1.  | Internal Medicine                           | 4         | 120         |
| 2.  | Surgery                                     | 3         | 90          |
| 3.  | Phthisiology                                | 2         | 60          |
| 4.  | Pediatrics                                  | 1,5       | 45          |
| 5.  | Obstetrics                                  | 1,5       | 45          |
| 6.  | Otolaryngology                              | 2,25      | 68          |
| 7.  | Ophthalmology                               | 1,5       | 45          |
| 8.  | Neurology (with Neurodentistry)             | 1,5       | 45          |
| 9.  | Dermatology and Venereology                 | 1,5       | 45          |
| 10. | Psychiatrics and Addictology                | 1,5       | 45          |
| 11. | Oncology                                    | 1         | 30          |
| 12. | Medical Psychology                          | 1,5       | 45          |
| 13. | Infectious Diseases                         | 2         | 60          |
| 14. | Epidemiology                                | 0,75      | 23          |
| 15. | Clinical Pharmacology                       | 1,5       | 45          |
| 16. | Neurosurgery                                | 1         | 30          |
| 17. | Medicine of Emergency States                | 2         | 60          |
| 18. | Therapeutic Dentistry                       | 6         | 180         |
| 19. | Surgical Dentistry                          | 5,5       | 165         |
| 20. | Prosthetic Dentistry                        | 5,5       | 165         |
| 21. | Pediatric Therapeutic Dentistry             | 4,5       | 135         |
| 22. | Pediatric Surgical Dentistry                | 3,5       | 105         |
| 23. | Orthodontics                                | 3         | 90          |
| 24. | Optional course                             | 2         | 60          |
|     | <b>TOTAL</b>                                | <b>60</b> | <b>1800</b> |
|     | <b>Practical Medical Training (8 weeks)</b> | <b>12</b> | <b>360</b>  |

- OPTIONAL COURSES:**
1. *Clinical Physiology.*
  2. *Clinical Biochemistry.*
  3. *Phytotherapy.*
  4. *Fundamentals of Alcoholism and Drug Abuse Prevention.*
  5. *Fundamentals of Depth Psychology.*
  6. *Physical Education and Health. Second Foreign Language.*
  7. *Medical Subculture.*
  8. *Topical Questions of Physiotherapy, Balneology and Epidemiology.*
  9. *Foreign Language for Medicine.*
  10. *Methodology of Evidence Based Medicine.*
  11. *Biostatistics and Clinical Epidemiology.*
  12. *Fundamentals of Sexology and Sexopathology.*
  13. *Topical Questions of HIV infection.*
  14. *Modern Diagnosis of TMJ Diseases and Salivary Glands.*
  15. *Plastic and Reconstructive Surgery.*
  16. *Fundamentals of Christian Ethics and Morals.*
  17. *Environmental Ethics.*

# THE FIFTH YEAR OF STUDY

Educational weeks – 40



## THE CURRICULUM

|     | SUBJECTS                                    | ECTS       | HOURS       |
|-----|---|------------|-------------|
| 1.  | Therapeutic Dentistry                       | 11,5       | 345         |
| 2.  | Surgical Dentistry                          | 11         | 330         |
| 3.  | Prosthetic Dentistry with Implantology      | 11,5       | 345         |
| 4.  | Pediatric Therapeutic Dentistry             | 7,5        | 225         |
| 5.  | Pediatric Surgical Dentistry                | 3          | 90          |
| 6.  | Orthodontics                                | 3          | 90          |
| 7.  | Economics of Public Health Service          | 1,5        | 45          |
| 8.  | Emergency Medicine                          | 1,5        | 45          |
| 9.  | Clinical Immunology                         | 1,5        | 45          |
| 10. | Civil Protection                            | 0,5        | 15          |
| 11. | Occupational Safety in Medicine             | 0,5        | 15          |
| 12. | Optional course                             | 4          | 120         |
| 13. | Attestation (Krok-2. Dentistry)             | 3          | 90          |
|     | <b>TOTAL</b>                                | <b>60</b>  | <b>1800</b> |
|     | <b>Practical Medical Training (4 weeks)</b> | <b>4,5</b> | <b>135</b>  |

**OPTIONAL COURSES:** 1. *Management and Marketing in Dentistry.*

2. *Extreme Medicine.*

3. *Plastic and Reconstructive Surgery.*

4. *Topical Questions of Neurosurgery.*

5. *Topical Questions of Clinical Immunology and Allergology.*

6. *Medical Aspects of Bioethics and Biosafety.*

7. *Physical Education and Health.*

8. *Reflex Therapy in Dentistry.*

9. *Modern Techniques of Whole Piece Dental Prosthetics.*

10. *Fundamentals of Esthetic Dental Restoration.*

11. *Surgical Preparation of Mouth Cavity for Dental Prosthetics.*

12. *Endodontal Technique in Pediatric Dentistry.*

13. *Modern Techniques of Application of Fixed Orthodontic Apparatus.*

14. *Fundamentals of Immunoprophylaxis.*

15. *Fundamentals of Christian Ethics and Morals.*

16. *Topical Questions of Rehabilitation and Occupational Guidance of Handicapped People.*



# ANNUAL CURRICULUM FOR NURSING TRAINING

Studying in Nursing speciality on educational and qualification level “Junior Specialist”, lasts for three years and includes learning of the following subjects and courses, which are given below in the curriculum.

## THE FIRST YEAR OF STUDY

Educational weeks – 38

|     | SUBJECT  | ECTS*     | HOURS       |
|-----|--|-----------|-------------|
| 1.  | History of Culture   | 1,5       | 54          |
| 2.  | Physical Training (PT)                                     | 4,25      | 153         |
| 3.  | Ukrainian Language   | 2,25      | 81          |
| 4.  | History of Ukraine   | 1,5       | 54          |
| 5.  | Latin language with Medical Terminology                    | 2,25      | 81          |
| 6.  | Fundamentals of Psychology and Interpersonal Communication | 2,25      | 81          |
| 7.  | Fundamentals of Health Informatics                         | 2,25      | 81          |
| 8.  | Fundamentals of Economic Theory                            | 1,5       | 54          |
| 9.  | Human Anatomy  | 3,75      | 135         |
| 10. | Physiology   | 3,75      | 135         |
| 11. | Pharmacology and Recipe                                    | 1,75      | 63          |
| 12. | Medical Chemistry  | 3,75      | 135         |
| 13. | Microbiology   | 3         | 108         |
| 14. | Medical Biology  | 2,25      | 81          |
| 15. | Fundamentals of Biophysics and Medical Equipment           | 2,25      | 81          |
| 16. | Human Growth and Development                               | 3         | 108         |
| 17. | History of Medicine and Nursing                            | 2,25      | 81          |
| 18. | Fundamentals of Nursing (Practical Training)               | 12        | 432         |
|     | Examination sitting  | 3         | 108         |
|     | <b>TOTAL</b>   | <b>60</b> | <b>2160</b> |



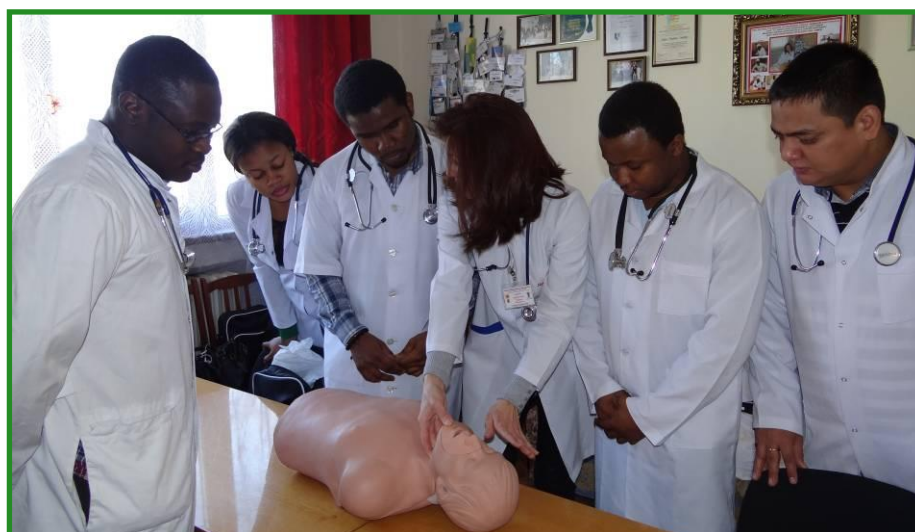
## THE SECOND YEAR OF STUDY

Educational weeks – 37



THE CURRICULUM

|     | SUBJECT  | ECTS*     | HOURS       |
|-----|--|-----------|-------------|
| 1.  | Fundamentals of Philosophy                                     | 1,5       | 54          |
| 2.  | Physical Training  | 4,25      | 153         |
| 3.  | Ukrainian Language   | 2,25      | 81          |
| 4.  | Fundamentals of Law Science                                    | 1,5       | 54          |
| 5.  | Sociology Science  | 1,5       | 54          |
| 6.  | Pathomorphology and pathophysiology                            | 4,5       | 162         |
| 7.  | Pharmacology and Medical Recipe                                | 2         | 72          |
| 8.  | Fundamentals of Ecology and Preventative Medicine              | 2,25      | 81          |
| 9.  | Life Safety  | 1,5       | 54          |
| 10. | Reproductive Health and Family Planning (Educational Training) | 2,25      | 81          |
| 11. | Nursing within Internal Medicine                               | 6         | 216         |
| 12. | Nursing within Surgery   | 5,5       | 198         |
| 13. | Nursing within Pediatrics                                      | 5,5       | 198         |
| 14. | Nursing within Obstetrics                                      | 3         | 108         |
| 15. | Nursing within Gynecology                                      | 3,75      | 135         |
| 16. | Nursing within Infectology                                     | 3,75      | 135         |
| 17. | Nursing within Ophthalmology                                   | 2,25      | 81          |
| 18. | Nursing within Otolaryngology                                  | 2,25      | 81          |
|     | Work Experience Internship                                     | 3         | 108         |
|     | Examination Sitting  | 1,5       | 54          |
|     | <b>TOTAL</b>   | <b>60</b> | <b>2160</b> |





## THE THIRD YEAR OF STUDY

Educational weeks – 33

|     | SUBJECTS   | ECTS      | HOURS       |
|-----|--|-----------|-------------|
| 1.  | Fundamentals of Law and legislation within Life Safety | 2         | 60          |
| 2.  | Ukrainian Language                                     | 2         | 60          |
| 3.  | Nursing within Internal Medicine                       | 5         | 150         |
| 4.  | Nursing within Surgery                                 | 4         | 120         |
| 5.  | Nursing within Pediatrics                              | 4         | 120         |
| 6.  | Nursing within Oncology                                | 3         | 90          |
| 7.  | Nursing within Dermatology                             | 3         | 90          |
| 8.  | Nursing within family Medicine                         | 4         | 120         |
| 9.  | Nursing within gerontology and Geriatrics              | 3         | 90          |
| 10. | Nursing in Psychiatrics and Addiction Medicine         | 5         | 150         |
| 11. | Nursing within Neurology                               | 3         | 90          |
| 12. | Social Health and Social Nursing                       | 2         | 60          |
| 13. | Nursing Ethics and Deontology                          | 1         | 30          |
| 14. | Anesthesiology and Emergency Medicine                  | 2         | 60          |
| 15. | Medical and Social Rehabilitation                      | 3,5       | 105         |
| 16. | Disaster Medicine                                      | 2         | 60          |
| 17. | Optional course  | 2         | 60          |
|     | Predegree Practice                                     | 8         | 240         |
|     | State Examination                                      | 1,5       | 45          |
|     | <b>TOTAL</b>   | <b>60</b> | <b>1800</b> |

**OPTIONAL COURSES:** 1. *Alternative Medicine.*

2. *Cosmetology.*

3. *Phytotherapy.*

4. *Sport Medicine.*

5. *Acute Questions of Nursing.*

6. *Physical Training.*

# ANNUAL CURRICULUM FOR NURSING TRAINING



Studying in Nursing speciality on educational and qualification level “**Bachelor**”, lasts for one year and includes learning of the following subjects and courses, which are given below in the curriculum.

**Educational weeks – 33**

|     | <b>SUBJECT</b>  | <b>ECTS*</b> | <b>HOURS</b> |
|-----|---|--------------|--------------|
| 1.  | History of Ukraine  | 1,5          | <b>54</b>    |
| 2.  | Ukrainian Language  | 1,5          | <b>54</b>    |
| 3.  | History of Ukrainian Culture                                | 1,5          | <b>54</b>    |
| 4.  | Philosophy Science  | 1,5          | <b>54</b>    |
| 5.  | Politology Science  | 2            | <b>72</b>    |
| 6.  | Foreign Language  | 1,5          | <b>54</b>    |
| 7.  | Physical Training   | 1,5          | <b>54</b>    |
| 8.  | Clinical Pharmacology within Toxicology                     | 3            | <b>108</b>   |
| 9.  | Biological Chemistry  | 1,5          | <b>54</b>    |
| 10. | Epidemiology  | 1,5          | <b>54</b>    |
| 11. | Clinical Nursing within Internal Medicine                   | 4,5          | <b>162</b>   |
| 12. | Clinical Nursing within Surgery                             | 4,5          | <b>162</b>   |
| 13. | Clinical Nursing within Pediatrics                          | 4,5          | <b>162</b>   |
| 14. | Clinical Nursing within Professional Pathology              | 1,5          | <b>54</b>    |
| 15. | Human Health State Examination                              | 5            | <b>180</b>   |
| 16. | Economy of Life Safety. Marketing of Medical Services.      | 1,5          | <b>54</b>    |
| 17. | Management and Leadership in Nursing.                       | 2,5          | <b>90</b>    |
| 18. | Medical and Pharmaceutical Merchandizing                    | 1,5          | <b>54</b>    |
| 19. | Social Medicine   | 1,5          | <b>54</b>    |
| 20. | Mental Health   | 1,5          | <b>54</b>    |
| 21. | Fundamentals of Work Safety                                 | 1,5          | <b>54</b>    |
| 22. | Psychology of International Communication (Optional Course) | 1,5          | <b>54</b>    |
| 23. | Methodology of Research Work (Optional Course)              | 1,5          | <b>54</b>    |
|     | Pedagogical Practice  | 8,5          | <b>306</b>   |
|     | <b>TOTAL</b>  | <b>60</b>    | <b>2160</b>  |

**THE  
CURRICULUM**



# ANNUAL CURRICULUM FOR NURSING TRAINING

Studying in Nursing speciality on educational and qualification level “**Master**”, lasts for two years and includes learning of the following subjects and courses, which are given below in the curriculum.

## THE FIRST YEAR OF STUDY

Educational weeks – 32

|     | SUBJECT  | ECTS*       | HOURS       |
|-----|--|-------------|-------------|
| 1.  | Psychology Science                                     | 3           | 108         |
| 2.  | Law Science and Medical Legislation                    | 3           | 108         |
| 3.  | Social Medicine and Medical Statistics                 | 3           | 108         |
| 4.  | Pedagogy   | 4,5         | 162         |
| 5.  | Health Informatics                                     | 3           | 108         |
| 6.  | Clinical Pharmacology                                  | 3           | 108         |
| 7.  | Safe Medical Space                                     | 3           | 108         |
| 8.  | Nursing Diagnosis                                      | 3           | 108         |
| 9.  | Economy of Life Safety. Marketing of Medical Services. | 3           | 108         |
| 10. | Management within Nursing                              | 3           | 108         |
| 11. | Methodology of Research Work                           | 3           | 108         |
| 12. | Palliative Medicine                                    | 4,5         | 162         |
| 13. | Family Medicine  | 4,5         | 162         |
| 14. | Clinical Nursing                                       | 4,5         | 162         |
| 15. | Work Safety  | 1           | 36          |
| 16. | Optional Course (Psychiatrics)                         | 1,5         | 54          |
|     | Practical training (10 weeks)                          | 15          | 540         |
|     | <b>TOTAL</b>   | <b>65,5</b> | <b>2358</b> |



## THE SECOND YEAR OF STUDY

Educational weeks – 18



## THE CURRICULUM

|    | SUBJECTS                                 | ECTS      | HOURS       |
|----|--|-----------|-------------|
| 1. | Pedagogy                                 | 4,5       | 162         |
| 2. | Health Informatics                       | 1,5       | 54          |
| 3. | Medical and Pharmaceutical Merchandizing | 4,5       | 162         |
| 4. | Emergency State                          | 3         | 108         |
| 5. | Palliative Medicine                      | 1,5       | 54          |
| 6. | Family Medicine                          | 4,5       | 162         |
| 7. | Clinical Nursing                         | 4,5       | 162         |
| 8. | Civil Defense                            | 1         | 36          |
| 9. | Optional Course                          | 1         | 36          |
|    | Clinical Practice (10 weeks)             | 15        | 540         |
|    | Pedagogical Practice (10 weeks)          | 15        | 540         |
|    | Working of Graduation Thesis             | 3,5       | 126         |
|    | Defending of Graduation Thesis           | 0,5       | 18          |
|    | <b>TOTAL</b>                             | <b>60</b> | <b>2160</b> |

**N.B.** *There might be changes to the curriculum for all specialities.*







## THE GRADING SYSTEM

Each discipline contains a certain number of modules.

The score for each module is determined as the sum of scores for the routine class activity (maximum – 120 points) and scores for the final module control (maximum – 80 points). The maximum number of scores is 200 points.

The course grade is defined as the direct average of scores for several modules.

| The University scale | The national scale |
|----------------------|--------------------|
| 180-200              | Excellent          |
| 150-179              | Good               |
| 120-149              | Satisfactory       |
| 0-119                | Fail               |

| Scores are transferred into the ECTS scale according to the students rank: |                      |
|--|----------------------|
| A  | best 10% of students |
| B  | next 25% of students |
| D  | next 30% of students |
| E  | next 25% of students |