

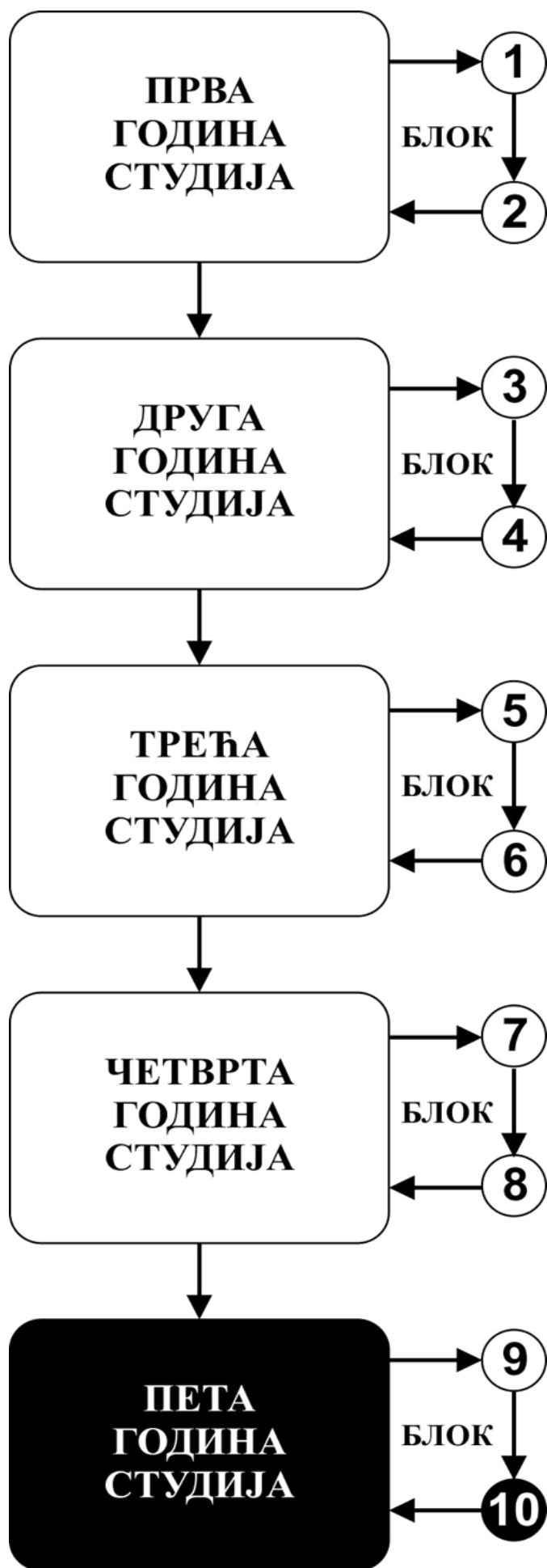


**INTEGRATED ACADEMIC STUDIES OF
PHARMACY**

FIFTH YEAR OF STUDIES

2024/2025 school year.

PROFESSIONAL STUDENT PRACTICE



Subject:

PROFESSIONAL STUDENT PRACTICE

The subject is evaluated with 15 ESPB points. In total, there are 450 hours of active classes (30 classes of work in a small group in a pharmacy per week).

TEACHERS AND ASSOCIATES:

| RB | Name and surname | E-mail address | Vocation |
|----|------------------|---------------------|----------------|
| 1. | Marina Tomovic | marinapop@gmail.com | Full professor |

COURSE STRUCTURE:

| Module | Name of the module | Sunday | Lectures | Work in a small group | Teacher-leader |
|--------|---|--------|----------|-----------------------|----------------------------|
| 1 | Carrying out practice in the laboratory. Production of galenic and magisterial preparations (ointments, creams, body and face milks, lotions and tonics, vagitories and triturates.). Reception, records and storage of active and auxiliary substances. | 5 | / | 150 | prof. Ph.D. Marina Tomovic |
| 2 | Practicing in a pharmacy Division of work and responsibilities of employees, appearance, layout and purpose of rooms in the pharmacy. Acquaintance with pharmacy literature, reception and storage of drugs and medical devices with special reference to drugs from the cold chain. Defecting the pharmacy and checking deadlines as well as certificates of drugs and medical devices. Keeping professional records (book of narcotics, book of deadlines, book of private prescriptions...). | 5 | / | 150 | prof. Dr. Marina Tomović |
| 3 | Training students on the software used in the pharmacy, training students to purchase drugs and medical devices under the supervision of pharmacists, determine the correctness of the prescribed drug, dispense the drug, identify problems related to the use of drugs, monitor and report adverse reactions to the drug, and perform administrative processing of prescriptions . Develops communication skills with patients, pharmacists and doctors. | 5 | / | 150 | prof. Dr. Marina Tomović |
| | | | | | Σ 450 |

ASSESSMENT:

The student masters the subject in modules.

The student achieves the expected ESPB points after the professional practice diary has been verified by the mentor and subject manager, which confirms that the student has successfully completed the professional practice.

Literature

| Module | the name of the textbook | Authors | publisher | the library |
|--|---------------------------|---------|-----------|-------------|
| Carrying out practice in the laboratory. Production of galenic and magisterial preparations (ointments, creams, body and face milks, lotions and tonics, vagitories and triturates.). Reception, records and storage of active and auxiliary substances. | IV Yugoslav Pharmacopoeia | | | Has |
| | V Yugoslav Pharmacopoeia | | | Has |
| | Master formulas | | | Has |
| Practicing practice in a pharmacy Division of work and responsibilities of employees, appearance, layout and purpose of rooms in the pharmacy. Acquaintance with pharmacy literature, reception and storage of drugs and medical devices with special reference to drugs from the cold chain. Defecting the pharmacy and checking deadlines as well as certificates of drugs and medical devices. Keeping professional records (book of narcotics, book of deadlines, book of private prescriptions...). | / | | | |
| Training students on the software used in the pharmacy, training students to purchase drugs and medical devices under the supervision of pharmacists, determine the correctness of the prescribed drug, dispense the drug, identify problems related to the use of drugs, monitor and report adverse reactions to the drug, and perform administrative processing of prescriptions . Develops communication skills with patients, pharmacists and doctors. | / | | | |

THE PROGRAM

FIRST MODULE: Carrying out practice in the laboratory. Production of galenic and magisterial preparations (ointments, creams, body and face milks, lotions and tonics, vagitories and triturates.). Reception, records and storage of active and auxiliary substances.

TEACHING UNIT 1 (FIRST WEEK):

lectures

/

exercises

Acquaintance with professional literature, pharmaceutical calculations. Rooms and equipment in the laboratory. Acquaintance with the valid legal and professional regulations that regulate the production of master medicines. Keeping professional records (book of production of master medicines, laboratory diary).

TEACHING UNIT 2 (SECOND WEEK):

lectures

/

exercises

Preparation of dishes, utensils, packaging and creation of conditions for the production of magisterial medicines. Procurement, reception and storage of substances.

TEACHING UNIT 3 (THIRD WEEK):

lectures

/

exercises

Production, packaging and labeling of prescription drugs (checking doses and compatibility of existing substances).

UNIT 4 (FOURTH WEEK):

lectures

/

exercises

Production, packaging and labeling of prescription drugs (checking doses and compatibility of existing substances).

UNIT 5 (FIFTH WEEK):

lectures

/

exercises

Production, packaging and labeling of prescription drugs (checking doses and compatibility of existing substances).

SECOND MODULE: Division of work and responsibilities of employees, appearance, layout and purpose of rooms in the pharmacy. Acquaintance with pharmacy literature, reception and storage of drugs and medical devices with special reference to drugs from the cold chain. Defecting the pharmacy and checking deadlines as well as certificates of drugs and medical devices. Keeping professional records (book of narcotics, book of deadlines, book of private prescriptions...).

UNIT 6 (SIXTH WEEK):

| lectures | exercises |
|----------|---|
| / | Layout and purpose of rooms in the pharmacy. Acquaintance with pharmacy literature (drug register...), division of labor and responsibilities of employees. Legal and professional responsibility of pharmacists. Keeping professional records (book of narcotics, private prescriptions...). Checking deadlines and certificates of drugs and medical devices. |

UNIT 7 (SEVENTH WEEK):

| lectures | exercises |
|----------|---|
| / | Keeping professional records (book of narcotics, private prescriptions, appointment book), receipt and filing of drugs and medical devices with special reference to drugs from the cold chain. Defection of the pharmacy. Procedure for disposing of medicines and disposal of pharmaceutical waste. |

UNIT 8 (EIGHTH WEEK):

| lectures | exercises |
|----------|--|
| / | Reception and storage of medicines and medical devices with special reference to medicines from the cold chain. Defection of the pharmacy. Acquaintance of students with dietary products as well as possible drug-dietary product and drug-food interactions. |

UNIT 9 (NINTH WEEK):

| lectures | exercises |
|----------|---|
| / | Receiving and storing medicines, defecting the pharmacy and checking deadlines. Acquaintance of students with dietary products and medical devices available at the pharmacy. Monitoring and reporting of adverse drug reactions. |

UNIT 10 (TENTH WEEK):

| lectures | exercises |
|----------|---|
| / | Receiving and storing medicines, defecting the pharmacy and checking deadlines. Acquaintance of students with dietary products and medical devices available at the pharmacy. Monitoring and reporting of adverse drug reactions, as well as possible drug-dietary and/or drug-food interactions. |

THIRD MODULE: Training students on the software used in the pharmacy, training students to purchase drugs and medical devices under the supervision of pharmacists, determine the correctness of the prescribed drug, dispense the drug, identify problems related to the use of drugs, monitor and report adverse reactions to the drug, and perform administrative processing of prescriptions . Develops communication skills with patients, pharmacists and doctors.

UNIT 11 (ELEVENTH WEEK):

lectures

exercises

Training on the software used in the pharmacy (processing of invoices and delivery notes that follow traffic, ...), implementation of the procurement of drugs and medical devices under the supervision of a pharmacist.

UNIT 12 (Twelfth Week):

lectures

exercises

Acquaintance of the student with the prescription form and the regulations governing this area. Determining the correctness of the prescription in terms of dispensing mode, dosage, pharmaceutical form and required quantities. Issuance of drugs with a prescription, without a prescription from the group of narcotic drugs and psychoactive substances. Identification of problems related to the use of medicines, processing of prescriptions. Development of communication skills with patients, colleagues and doctors.

UNIT 13 (WEEK THIRTEEN):

lectures

exercises

Communication with the patient, informing the patient how and what the medicine is used for, what are the possible side effects of the medicine. Administration of drugs in children, pregnant women and elderly patients, possible interactions with simultaneously applied drugs/food. What can happen in the event of improper use or sudden discontinuation of medication. Modification of therapy in agreement with the doctor (development of communication with colleagues and doctors). Training of patients for adequate application of therapy (use of pumps, inhalers, insulin...). Proper use of herbal and homeopathic therapy, as well as dietary supplement products in combination with or without medication. How to link a patient to a specific pharmacy/pharmacist.

UNIT 14 (FOURTEENTH WEEK):

lectures

exercises

Communication with the patient, informing the patient how and what the medicine is used for, what are the possible side effects of the medicine. Administration of drugs in children, pregnant women and elderly patients, possible interactions with simultaneously applied drugs/food. What can happen in the event of improper use or sudden discontinuation of medication. Modification of therapy in agreement with the doctor (development of communication with colleagues and doctors). Training of patients for adequate application of therapy (use of pumps, inhalers, insulin...). Proper use of herbal and homeopathic

therapy, as well as dietary supplement products in combination with or without medication. How to link a patient to a specific pharmacy/pharmacist.

UNIT 15 (FIFTEENTH WEEK):

lectures

exercises

Communication with the patient, informing the patient how and what the medicine is used for, what are the possible side effects of the medicine. Administration of drugs in children, pregnant women and elderly patients, possible interactions with simultaneously applied drugs/food. What can happen in the event of improper use or sudden discontinuation of medication. Modification of therapy in agreement with the doctor (development of communication with colleagues and doctors). Training of patients for adequate application of therapy (use of pumps, inhalers, insulin...). Proper use of herbal and homeopathic therapy, as well as dietary supplement products in combination with or without medication. How to link a patient to a specific pharmacy/pharmacist.

LECTURE SCHEDULE

GREAT HALL (S3)

WEDNESDAY

PRACTICE SCHEDULE

PHARMACY

In agreement with mentors

[Schedule of classes and module tests](#)

| module | Sunday | method unit name | A teacher |
|----------|--------|--|-----------------------|
| 1 | 1 | / | |
| | 1 | Acquaintance with professional literature, pharmaceutical calculations. Rooms and equipment in the laboratory. Acquaintance with the valid legal and professional regulations that regulate the production of master medicines. Keeping professional records (book of production of master medicines, laboratory diary). | Mentors from Pharmacy |
| | 2 | / | |
| | 2 | Preparation of dishes, utensils, packaging and creation of conditions for the production of magisterial medicines. Procurement, reception and storage of substances. | Mentors from Pharmacy |
| | 3 | / | |
| | 3 | Production, packaging and labeling of prescription drugs (checking doses and compatibility of existing substances). | Mentors from Pharmacy |
| | 4 | / | |
| | 4 | Production, packaging and labeling of prescription drugs (checking doses and compatibility of existing substances). | Mentors from Pharmacy |
| | 5 | / | |
| | 5 | Production, packaging and labeling of prescription drugs (checking doses and compatibility of existing substances). | Mentors from Pharmacy |
| 2 | 6 | / | |
| | 6 | Layout and purpose of rooms in the pharmacy. Acquaintance with pharmacy literature (drug register...), division of duties and responsibilities of employees. Legal and professional responsibility of pharmacists. Keeping professional records (book of narcotics, private prescriptions...). Checking deadlines and certificates of drugs and medical devices. | Mentors from Pharmacy |
| | 7 | / | |

| module | Sunday | method unit name | A teacher |
|--------|--------|---|-----------------------|
| | 7 | Keeping professional records (book of narcotics, private prescriptions, appointment book), receipt and filing of drugs and medical devices with special reference to drugs from the cold chain. Defection of the pharmacy. Procedure for disposing of medicines and disposal of pharmaceutical waste. | Mentors from Pharmacy |
| | 8 | / | |
| | 8 | Reception and storage of medicines and medical devices with special reference to medicines from the cold chain. Defection of the pharmacy. Acquaintance of students with dietary products as well as possible drug-dietary product and drug-food interactions. | Mentors from Pharmacy |
| | 9 | / | |
| | 9 | Receiving and storing medicines, defecting the pharmacy and checking deadlines. Acquaintance of students with dietary products and medical devices available at the pharmacy. Monitoring and reporting of adverse drug reactions. | Mentors from Pharmacy |
| | 10 | / | |
| | 10 | Receiving and storing medicines, defecting the pharmacy and checking deadlines. Acquaintance of students with dietary products and medical devices available at the pharmacy. Monitoring and reporting of adverse drug reactions, as well as possible drug-dietary and/or drug-food interactions. | Mentors from Pharmacy |
| 3 | 11 | / | |
| | 11 | Training on the software used in the pharmacy (processing of invoices and delivery notes that follow the turnover, ..), implementation of the procurement of drugs and medical devices under the supervision of pharmacists. | Mentors from Pharmacy |
| | 12 | / | |

| module | Sunday | method unit name | A teacher |
|---------------|---------------|---|-----------------------|
| | 12 | Acquaintance of the student with the prescription form and the regulations governing this area. Determining the correctness of the prescription in terms of dispensing mode, dosage, pharmaceutical form and required quantities. Issuance of drugs with a prescription, without a prescription from the group of narcotic drugs and psychoactive substances. Identification of problems related to the use of medicines, processing of prescriptions. Development of communication skills with patients, colleagues and doctors. | Mentors from Pharmacy |
| | 13 | // | |
| | 13 | Communication with the patient, informing the patient how and what the medicine is used for, what are the possible side effects of the medicine. Administration of drugs in children, pregnant women and elderly patients, possible interactions with simultaneously applied drugs/food. What can happen in the event of improper use or sudden discontinuation of medication. Modification of therapy in agreement with the doctor (development of communication with colleagues and doctors). Training of patients for adequate application of therapy (use of pumps, inhalers, insulin...). Proper use of herbal and homeopathic therapy, as well as dietary supplement products in combination with or without medication. How to link a patient to a specific pharmacy/pharmacist. | Mentors from Pharmacy |
| | 14 | / | |
| 3 | 14 | Communication with the patient, informing the patient how and what the medicine is used for, what are the possible side effects of the medicine. Administration of drugs in children, pregnant women and elderly patients, possible interactions with simultaneously applied drugs/food. What can happen in the event of improper use or sudden discontinuation of medication. Modification of therapy in agreement with the doctor (development of communication with colleagues and doctors). Training of patients for adequate application of therapy (use of pumps, inhalers, insulin...). Proper use of herbal and homeopathic therapy, as well as dietary supplement products in combination with or without medication. How to link a patient to a specific pharmacy/pharmacist. | Mentors from Pharmacy |

| module | Sunday | method unit name | A teacher |
|--------|--------|--|-----------------------|
| | 15 | / | |
| | 15 | <p>Communication with the patient, informing the patient how and what the medicine is used for, what are the possible side effects of the medicine. Administration of drugs in children, pregnant women and elderly patients, possible interactions with simultaneously applied drugs/food. What can happen in the event of improper use or sudden discontinuation of medication. Modification of therapy in agreement with the doctor (development of communication with colleagues and doctors). Training of patients for adequate application of therapy (use of pumps, inhalers, insulin...). Proper use of herbal and homeopathic therapy, as well as dietary supplement products in combination with or without medication. How to link a patient to a specific pharmacy/pharmacist.</p> | Mentors from Pharmacy |
| | | EXAM (June deadline) | |