MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATION OF THE REPUBLIC OF UZBEKISTAN

MINISTRY OF HEALTH OF THE REPUBLIC OF UZBEKISTAN TASHKENT MEDICAL ACADEMY

DEPARTMENT OF HEMATOLOGY, TRANSFUSIOLOGY AND

açademic affairs Sh.A. Boymuradov 2023

"PREPARATION OF BIOLOGICA ERIALS FOR LABORATORY TESTS"

> SYLLABUS OF MODUL (Elective science)

Field of education

510000 - Health care

Direction of education:

60910200 - General Medicine

Toshkent - 2023

DEPARTMENT OF HEMATOLOGY, TRANSFUSIOLOGY AND LABORATORY WORK

Course 3 of the Faculty of "General Medicine"

Syllabus from the module "Preparation of biological materials for laboratory tests"

| Syllabus from the | Syllabus from the module "Preparation of biological materials for laboratory tests" | of biological mate | erials for laborator |
|---|---|---------------------------------------|----------------------|
| Full name of the | Credit Number: 1 | Modular | ECTS value: |
| module: | | transition | 1 |
| Preparation of | | period: | 71007 |
| biological | | Semester 5 | |
| materials for | | | |
| laboratory tests | | | |
| Modul kodi: | | | |
| PSPD2102 | | | |
| Educational areas: | 60910200- General | Stage : | Stage 3 students |
| | Medicine | for | for groups |
| Module duration | | 15 days | |
| Training hours | Total hours: 30 Of which: lecture-6 practical training-24 | | |
| Status of the | Elective science | | |
| training module | | | |
| OTM name, | Tashkent Medical Academy | lemy | |
| address | Tashkent City, Almazar district, Farabi-3 | r district, Farabi-3 | |
| | TMA 12 Building 6 floor | or. | |
| Department Name | Department of Hematology, transfusiology and laboratory work | logy, transfusiolog | y and laboratory |
| Information about the teachers of this | Speaker: Kurbonova Z.Ch. | E-mail: zumradkurbonova3@gmail.com | @gmail.com |
| course | Practical trainer: | | |

| | N.F.Nuriddinova | E-mail: abdurahimnadi@gmail.com |
|--|--|---|
| Training time and place | from 11.00 am to 12.20 | TTA multidisciplinary clinic 6th floor of Building 12. |
| A. A. M. P. L. | increase the quality of analyze observing the rules of transportation as biological material for laboratory tests. | increase the quality of analyzes by collecting, storing, observing the rules of transportation and properly preparing the biological material for laboratory tests. |
| Module content | Depending on the type of labor for collecting biological material mawith biomaterial Assembly rules can the analysis or misinterpret the result. | Depending on the type of laboratory research, the rules for collecting biological material may vary. Failure to comply with biomaterial Assembly rules can lead to the need to repeat the analysis or misinterpret the result. |
| Prerequites | biology, human anatomy physiology | biology, human anatomy, biology, normal and pathological physiology |
| Postrequisites | normal and pathological anat operative surgery, normal a Pharmacology, microbiology, military surgery. | normal and pathological anatomy, topographic Anatomy and erative surgery, normal and pathological Physiology, armacology, microbiology, neurology, radiology, field-litary surgery. |
| | It consists in the molecular-genetic knowlestudy of medical-biologic | It consists in the formation of the foundations of molecular-genetic knowledge, which will be necessary in the study of medical-biological and clinical modules in students. |
| Purpose of the module | To achieve this gost theoretical and practical established molecular-understand the function Molecular, Cellular and systems of living. | To achieve this goal, it is necessary to form in students a theoretical and practical knowledge of living matter based on established molecular-genetic laws, in order to deeply understand the functional process of the genetic apparatus of Molecular, Cellular and organisms, that is, at the level of all systems of living. |
| Module functions | Teaching students laboratory tests, biomate storage, transportation, a processes for their professional students. | Teaching students to prepare biological materials for laboratory tests, biomaterial properties, biomaterial acquisition, storage, transportation, and laboratory examination preparation processes for their professional study, and to prevent errors in |

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| | | | | skills and qualifications on the module | Requirements for student knowledge, | | | | | | | |
|--|--|---|---|--|---|---|---|--|--|--|---|----------|
| processes for preparing biological material for laboratory examination for general blood analysis. processes for preparing biological material for laboratory examination for biochemical blood analysis. | • to have an idea of the acquisition, storage, transportation of biological material for exudate and transsudate analysis; (knowledge) | material extraction technique, storage, transportation for sputum analysis; material extraction technique, storage, transportation for | obtaining, storage, transportation of biological material for stool analysis; | material extraction technique, storage, transportation for forehead tests; | material extraction technique, storage, transportation for general forehead analysis; | Material extraction techniques for blood analysis for PZR, storage, transportation; | blood extraction techniques, storage, transportation for blood analysis for immunoferment analysis; | blood extraction technique, storage, transportation for blood analysis to check the blood clotting system; | blood extraction techniques, storage, transportation for biochemical blood analysis; | blood extraction techniques, storage, transportation for general blood analysis; | preanalytic stage in laboratory examination and errors in it; | Sintern: |

| laboratory examination for immunoferment analysis. | * processes for preparing biological material for | laboratory examination to check the blood clotting system. |
|--|---|--|
| | 3. | |

- preparation processes. PZR, storage, transportation and laboratory examination material extraction techniques, storage, transportation Material extraction techniques for blood analysis for
- and laboratory examination preparation processes for forehead forehead analysis. and laboratory examination preparation processes for general material extraction techniques, storage, transportation
- for stool analysis. preparation for laboratory examination of biological material processes of obtaining, storage, transportation and
- storage, transportation and laboratory examination preparation processes. material extraction techniques for sputum analysis,
- transportation processes. material extraction techniques for liquor tests, storage, and laboratory examination preparation
- storing, transporting and preparing the biological material for exudate and transudate analysis; (skill) · be able to know and use the processes of obtaining,
- venous vein blood extraction technique;
- knowledge on topics are used, independent work, individual and group presentations, preparation of tasks assigned to the Lecture, practical classes technologies in teaching methodology, request theoretical Videos, multimedia and teacher computer programs, new (qualification) must have finger blood extraction technique skills.

house, writing abstracts, tests, situational issues, etc.

Supply

Teaching methods

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Recommended lecture sessions:

| No | Lecture topics | hours |
|----|---|-------|
| 1 | Theme 1. Preanalytical stage in laboratory examination and errors in it. Processes of obtaining, storing, transporting and preparing biological material for laboratory examination for blood analysis. | 2 |
| 2 | Theme 2. Processes of obtaining, storing, transporting and preparing biological material for laboratory analysis. Processes for obtaining, storing, transporting and preparing biological material for laboratory examination for fecal analysis. | 2 |
| 3 | Theme 3. Processes of obtaining, storage, transportation and preparation for laboratory examination of biological material for the analysis of sputum, liquorice, exudate and transsudate. | 2 |
| | Jami | 6 |

Practical training:

| № | Practical training topics | Soatlar hajmi |
|----|---|------------------|
| 1 | General blood analysis. | 2 |
| 2 | General urine analysis. | 2 |
| 3 | Unine tests | 2 |
| 4 | Checking the liquor. | 2 |
| 5 | Coagulogram indicators. | 2 |
| 6 | Biochemical blood test. | 2 |
| 7 | Methods of immunoferment blood tests. | 2 |
| 8 | Blood PCR testing methods. | 2 |
| 9 | Training nurses in laboratory examination | 2 |
| 10 | Sputum analysis. | 2 |
| 11 | Examination of exudate and transudate | 2 |

| 12 | General analysis of feces. | 2 |
|----|----------------------------|----|
| | Total | 24 |

Head of the Department of Hematology, transfusiology and laboratory work, associate professor

Dean of the faculty Pharmacy, Management, Medical Biology, Biomedical engineering and HQN A.B. Saidov

S.U. Aliyev

Compilers:

Associate Professor of Department of Hematology, transfusiology and laboratory work

Assistant of Department Hematology, transfusiology and laboratory work

Z.Ch.Kurbonova

N.F.Nuriddinova