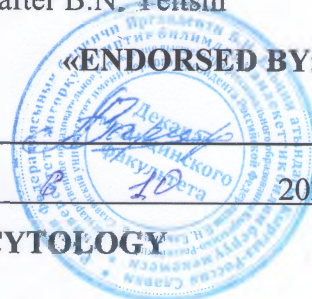


MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION,
MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ REPUBLIC

Government-run educational institution of higher professional education
Kyrgyz-Russian Slavic University named after B.N. Yeltsin

«ENDORSED BY»



2022 year.

HISTOLOGY, EMBRYOLOGY, CYTOLOGY

Course outline (module)

Assigned to **Histology, embryology, cytology**
Academic curriculum 31050150_21_1ld in.plx
31.05.01. - RF, 560001 - KR Medical
(for foreign students)
Qualification medical
Mode of study intramural

The program was compiled: the head of department associate, cms, docent Kalugina O.P., cms, docent Filipchenko E.G.

Course hours scheduling (per semester)

semester (course) < Semester on the course	2 (1.2)		3 (2.1)		total	
	weeks		18			
Type of training	AC	CO	AC	CO	AC	CO
Lectures	18	18	36	36	54	54
Practical	36	36	54	54	90	90
Contact work during the period of theoretical training	0,3	0,3			0,3	0,3
Contact work during the examination session			0,5	0,5	0,5	0,5
Interactive	4	4	5	5	9	9
Total	54	54	90	90	144	144
Face to face learning	54,3	54,3	90,5	90,5	144,8	144,8
Individual work	17,7	17,7	18	18	35,7	35,7
Control			35,5	35,5	35,5	35,5
Total	72	72	144	144	216	216

1. COURSE OUTLINE OBJECTIVES	
1.1	the formation of students' scientific ideas about the microscopic, functional morphology and development of human cellular, tissue and organ systems, the features of the development of the human embryo, the ultramicroscopic level of the structure of the structures of human organs, providing the basis for studying clinical disciplines and contributing to the formation of medical thinking.

2. PLACE OF THE COURSE IN THE EDUCATIONAL PROGRAM	
Educational Program Units:	B 1.0
2.1	Students' Preliminary Training Requirements:
2.1.1	chemistry
2.1.2	biology
2.1.3	anatomy
2.2	Course Units and Practical Sessions imposing the prior Proficiency:
2.2.1	normal physiology
2.2.2	pathological anatomy
2.2.3	pathophysiology, clinical pathophysiology
2.2.4	obstetrics
2.2.5	urology
2.2.6	pediatrics
2.2.7	ophthalmology
2.2.8	phthisiology
2.2.9	oncology, radiation therapy
2.2.10	gynecology
2.2.11	endocrinology
2.2.12	dermatovenereology
2.2.13	general surgery
2.2.14	forensic medicine
2.2.15	faculty therapy
2.2.16	neurology, medical genetics, neurosurgery

3. STUDENTS' COMPETENCIES RESULTING FROM THE COURSE UNIT (MODULE)	
DIC-4: able to use medical devices provided for by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis.	
Knowledge:	
Level 1	medical devices provided for by the procedure for the provision of medical care;
Level 2	comparative characteristics of medical devices provided for by the procedures for providing medical care to patients;
Level 3	the use of medical devices provided for by the procedures for providing medical care to patients.
Skills:	
Level 1	determine the scope of medical devices provided for by the procedures for the provision of medical care;
Level 2	conduct a comparative description of medical devices;
Level 3	apply medical devices provided for by the procedures for providing medical care to patients.
Expertise:	
Level 1	skills in identifying medical devices, their scope and the algorithm for using them to provide medical care;
Level 2	skills of comparative characteristics of medical devices and use in standard cases;
Level 3	skills in the use of medical devices provided for by the procedures for providing medical care to patients.

OIK-5: able to assess morpho functional, physiological conditions and pathological processes in the human body to solve professional problems	
Knowledge:	
Level 1	basic morpho functional, physiological states and pathological processes in the human body;

Level 2	the specifics of the main morpho functional, physiological conditions, pathological processes of the human body in comparison;
Level 3	the main ways of differentiation and formulation of the conclusion based on the results of the assessment of morpho functional, physiological processes and pathological conditions of the patient.
Skills:	
Level 1	reveal the meaning of the main morpho-functional, physiological states and pathological processes in the human body;
Level 2	to compare various morpho functional, physiological states;
Level 3	note the practical value of specific morpho functional, physiological processes and pathological conditions of the human body.
Expertise:	
Level 1	skills in determining the main morpho functional, physiological conditions and pathological processes in the human body;
Level 2	methods of searching and comparing various morpho functional, physiological states and pathological processes of the human body;
Level 3	skills of assessment, differentiation of the main morpho functional, physiological and pathological conditions of the human body and their own justification.

The student should know as a result of mastering the discipline:

3.1	Knowledge:
3.1.1	the structure of the cell, tissues and organs of a person;
3.1.2	the basic patterns of development and life of the human body based on the structural organization of cells, tissues and organs;
3.1.3	the histofunctional features of tissue elements, methods for their study;
3.1.4	safety rules when working in histological, chemical, biological laboratories with reagents, instruments, animals;
3.1.5	chemical and biological essence of the processes occurring in the human body at the molecular and cellular levels;
3.1.6	general patterns of origin and development of life;
3.1.7	anthropogenesis and ontogeny of man;
3.1.8	functional systems of the human body, their regulation and self-regulation under the influence of environmental factors;
3.1.9	features of reparative and physiological regeneration of organs and tissues.
3.2	Skills:
3.2.1	distinguish features of morphological structures and describe their structure;
3.2.2	work with magnifying equipment (microscopes, optical and simple magnifiers);
3.2.3	to give a histophysiological assessment of the state of various cellular, tissue and organ structures in humans.
3.3	Expertise:
3.3.1	skills in preparation, microscopy and analysis of histological and cytological preparations, analysis of electronic micrographs of human tissues.