

ODESSA NATIONAL MEDICAL UNIVERSITY
Faculty of Dentistry
Department of Normal and Pathological Clinical Anatomy

SYLLABUS OF THE COURSE
" Pathomorphology"

The volume of the course	Stomatological faculty, 180 hours, 6 credits ECTS
Semester, year of study	4-5 Semester , II- III year of study
Days, time, place	According to the schedule in classrooms of Department of Normal and Pathological Clinical Anatomy (cycle Pathomorphology)
Teachers	<p>Appelhans O L. <i>Head of the Department, MD, Professor.</i> Sytnikova VO, <i>MD , professor of the department ;</i> Litvinenko MV, <i>Candidate of Medical Sciences , Associate Professor;</i> Oliylyk NM, <i>Candidate of Medical Sciences , Associate Professor;</i> Buryachkivsky ES, <i>Candidate of Medical Sciences , Associate Professor;</i> Narbutova TYe, <i>Candidate of Medical Sciences , Assistant Professor;</i> Vasiliev VV, <i>Assistant;</i> Syviy SM, <i>Assistant ;</i> Logachova AI, <i>Assistant;</i> Savenko TO, <i>Assistant;</i> Artyomov OV, <i>Candidate of Medical Sciences , Assistant Professor;</i></p>
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E-mail	anatomy @ onmedu . edu . ua
Workplace	Odessa , Valikhovsky Lane, 3a. Morphological building Department of Normal and Pathological Clinical Anatomy, 2-nd floor (cycle of pathomorphology).
Consultations	Consultations are conducted by teachers of the

	department according to the schedule: Face-to-face consultations: Thursday from 14.30 to 16.00; Saturday from 9.00 to 14.00 On-line consultations: Thursday from 14.30 to 16.00; Saturday from 9.00 to 14.00 https://moodle.odmu.edu.ua / or via <i>Microsoft Teams</i> / Telegram / viber / Zoom
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COMMUNICATION is carried out with the help of the E-mail department: anatomy@onmedu.edu.ua, as well as with the help of Viber and Telegram messengers and through the sites www.anatom.in.ua, <https://anatom.ua>/<https://meduniver.com> / **Medical / Anatom**

COURSE ANNOTATION

The discipline "Pathomorphology" is studied in accordance with the Standard of higher education of the second (master's) level of knowledge 22 "Health" specialty 221 "Dentistry" of the educational program of Master of Medicine.

The subject of the study discipline "Pathomorphology", is the structural basis of human diseases for advanced mastering the fundamentals of medicine and clinical picture of the disease then use the obtained knowledge in doctor's practice.

The purpose of the course: The purpose of teaching the discipline " Pathomorphology " is to study the microscopic and ultramicroscopic structure of the human body, their development and changes in various living conditions to study the clinic, differential diagnosis and use of knowledge in practice, taking into account age characteristics.

The main tasks of studying the discipline " Pathomorphology ":

Knowledge: study of typical general pathological processes, the set of which determines the morphological manifestations of diseases; be able to define various pathologies; briefly explain the etiology and pathogenesis, form the basic principles of classification, describe the macro- and microscopic picture taking into account age, name the results, complications and causes of death.

Understanding: to explain the patterns of development of various pathologies, to explain the features of macro- and microscopic changes depending on the etiology, form and stage of the disease; to carry out differential diagnosis, to explain the nature of possible complications and results that have developed in the tissues.

Use of knowledge in practice: to demonstrate mastery of the terminological apparatus of the discipline, to conduct a macro- and microscopic description of pathological changes, to mark on microphotographs detected pathological changes, to solve educational situational clinical problems using knowledge of pathomorphology.

Expression of opinions, evaluation of ideas and formation of conclusions: formation of own conclusions on the results of macro- and microscopic research, expression of opinions on the functional significance of the detected morphological changes, description of the impact of structural changes of affected tissue on other organs, systems and organism as a whole.

Transfer of own understanding and skills: ability to compile knowledge of pathomorphology with coverage of own considerations and formation of conclusions in the form of abstracts and presentations; improving public speaking skills with analysis and synthesis of information.

Ability to continue further independent learning: to use knowledge of pathomorphology to master post-requisite clinical disciplines.

According to the requirements of the Standard, the discipline " Pathomorphology " provides students with the acquisition of competencies :

- **integrated** : the ability to solve typical and complex specialized problems and practical problems in professional activities in the field of health care, or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements.

- **general (GC):**

- Ability to apply knowledge of pathomorphology in practical situations;
- Knowledge and understanding of pathomorphology;
- Ability to choose a communication strategy; ability to work in a team; interpersonal skills;
- Ability to communicate in the state language both orally and in writing; ability to communicate in a foreign language;
- Skills in the use of information and communication technologies;
- Ability to abstract thinking, analysis and synthesis, the ability to learn and be modernly trained;
- Ability to evaluate and ensure the quality of work performed;
- Definiteness and persistence in terms of tasks and responsibilities.

- **special (professional, subject) (SC):**

1. Ability to evaluate the results of autopsy, research of biopsy-section material.
2. Ability to analyze the morphological manifestations of diseases.
3. Ability to analyze the structural basis of the development of diseases and their clinical manifestations, the structural basis of recovery, complications and consequences.
4. Ability to master the methods of pathomorphological research : autopsy , biopsy .

Learning outcomes:

Evaluate information on the diagnosis in the health care institution, its unit, using knowledge of the structural basis of the disease, based on the results of autopsy and methods of lifelong diagnosis of diseases.

COURSE DESCRIPTION

Forms and methods of teaching

The course will be presented in the form of lectures (30 hours) and practical classes (80 hours), organization of independent work of students (70 hours).

The lecture course covers problematic issues of the relevant sections of pathomorphology. Methods of educational and cognitive activity: explanatory-illustrative method, method of problem statement. This is done using multimedia presentations .

Discipline section 1. General pathomorphology .

Topic 1. Introduction to pathomorphology . Subject and tasks of pathomorphology . Methods and techniques of pathological diagnosis. The main stages of development of pathomorphology . Ascending level of knowledge. Morphological changes of cells in response to stress and toxic damage (parenchymal / cellular dystrophies). Cellular dystrophies: hyaline-droplet , hydropic , fatty.

Topic 2. Morphological changes of the extracellular matrix (stroma) in response to damage (stromal-vascular dystrophies). Pathomorphology of accumulation of complex proteins (hyalinosis) and lipids. Exhaustion of the body.

Topic 3. Pathomorphology of accumulation of products of disturbed metabolism. Disorders of iron metabolism and metabolism of hemoglobinogenic pigments, Pathomorphological manifestations of disorders of melanin formation, nucleoprotein and copper metabolism. Calcification (calcification) of tissues. Formation of stones in the organs. Topic

4. Necrosis-definition, timing and phases of development, consequences. Clinical and morphological forms of necrosis. Pathological anatomy of multiorgan failure. Fundamentals of thanatology. Death, mechanisms, signs. Biological, medical, social aspects due to chronic incurable disease. The concept of thanatogenesis . Structural mechanisms of termination of vital organs during the natural course of the disease. The immediate consequences of the cessation of the heart, lungs, brain, kidneys, liver.

Topic 5. Final lesson. Practical skills.

Topic 6. Acute systemic circulatory disorders (acute coronary insufficiency, shock) and systemic circulatory disorders in chronic heart failure and their consequences. Regional circulatory disorders (hyperemia, ischemia, plasmorrhagia , bleeding and hemorrhage). Disorders of lymph formation and circulation.

Topic 7. Violation of ion-osmotic and water balance, acid-base state.

Topic 8. Hemostasis disorders: hemorrhagic syndrome, thrombosis, DIC syndrome . Embolism. Thromboembolism of pulmonary artery thanatogenesis .

Topic 9. Inflammation: causes, morphogenesis. Pathomorphology of exudative inflammation .

Topic 10. Proliferative (productive) inflammation: with the formation of acute condyloma, around parasitic animals, intermediate productive inflammation, granulomatous inflammation. Specific proliferative inflammation.

Topic 11. Final lesson. Practical skills.

Topic 12. Molecular pathomorphological bases of the immune response. Immune system in the prenatal and postnatal period. Pathology of immune processes: amyloidosis, hypersensitivity reactions , graft rejection reaction. Immune deficiency. Autoimmune diseases.

Topic 13. Regeneration. Structural bases of physiological adaptation of organs and cells. Morphology of cell accommodation processes. Compensatory-adaptive processes.

Topic 14. Oncogenesis . Anatomical and microscopic features and types of growth of benign and malignant tumors. Morphological characteristics of the main stages of development of malignant tumors. Clinical and morphological nomenclature of

tumors. Tumors of the epithelium: benign organ-specific epithelial tumors, cancer (features of development and metastasis, the main histological forms).

Topic 15. Benign and malignant non-epithelial (mesenchymal) tumors. Sarcoma: features of development and metastasis. Tumors of fibroblastic , myofibroblastic and fibrohistiocytic genesis . Tumors of adipose and muscle tissue, tumors of blood vessels.

Topic 16. Melanocyte tumors. Features of childhood tumors. Embryonic tumors. Germinogenic tumors. Teratomas and teratoblastomas . Tumors of the "adult type".

Topic 17. Organ-specific tumors of the epithelium.

Topic 18. Tumors of the central nervous system (astroglial , oligodendroglial , ependymal , neuronal , meningeal), cranial and paraspinal nerves.

Topic 19. Diseases of the musculoskeletal system. Parathyroid osteodystrophy, osteopetrosis , Paget 's disease , fibrous dysplasia , osteomyelitis, joint disease, muscular dystrophy, myasthenia. Bone-forming and cartilaginous tumors.

Topic 20. Anemia. Thrombocytopathy.

Topic 21. Tumors of hematopoietic and lymphoproliferative tissue.

Topic 22. Final lesson. Practical skills .

Section of the discipline - 2. Special pathomorphology .

Topic 1. Atherosclerosis and arteriosclerosis. Coronary heart disease.

Topic 2. Hypertension and arteriosclerosis . Hypertension and symptomatic hypertension.

Topic 3. Systemic connective tissue diseases with autoimmunization : rheumatism, systemic lupus erythematosus, rheumatoid arthritis, systemic scleroderma, dermatomyositis , ankylosing spondylitis . Endocardial and myocardial diseases: cardiomyopathies , endocarditis, myocarditis, acquired heart defects.

Topic 4. Systemic vasculitis, nodular nodosa , arteritis Takayasu , temporal (giant cell) arteritis, granulomatosis Wegener , obliteratsiynny thromboangiitis , Kawasaki disease, Purpura Shenlyayn-Henoch disease syndrome and Raynaud's . Sjogren 's syndrome.

Topic 5. Cerebrovascular diseases. Postreanimation encephalopathy and brain death syndrome .

Topic 6. Respiratory diseases.

Topic 7. Diseases of the esophagus, stomach and intestines. Diseases of the liver, biliary system and pancreas.

Topic 8. Kidney disease.

Topic 9. Hypothalamic-pituitary disorders. Pathology of the adrenal glands. Pathology of the thyroid gland. Pathology of the endocrine system of the pancreas.

Topic 10. Diseases of the female and male reproductive system. Pathology of pregnancy, postpartum and placenta. Breast disease.

Topic 11. Pre- and perinatal pathology.

Topic 12. Pathology of changes in diseases associated with nutrition. Radiation sickness, nosocomial illness. Occupational diseases.

Topic 13. Final lesson. Practical skills .

Topic 14. Diseases of the hard tissues of the tooth (caries, non-cariou lesions), pulpitis, periodontitis, periostitis, osteomyelitis of the jaw bones.

Topic 15. Periodontal disease, inflammatory diseases of the lips, tongue, gums, oral mucosa.

Topic 16. Malformations of the face, neck and oral organs.

Topic 17. Diseases of the salivary glands - clinical and morphological features of salivary gland inflammatory diseases, autoimmune diseases, sialolithiasis, cancer and tumor-like diseases of the salivary glands.

Topic 18. Precancerous changes and tumors of the lips, tongue, soft tissues of the oral cavity.

Topic 19. Tumors and tumor processes of the oral mouth and jaw bones odontogenic and nonodontogenic tumors, papilloma, cancer of the oral area, precancerous changes (leukoplakia), nonepithelial tumors, tumors of the jaw bones (osteoblastoma, osteoma, osteosarcoma, fibrous dysplasia, heruvizm), maxillary cysts (follicular cyst, keratocyst, eruption cyst).

Topic 20. Clinical and morphological features of the organs of the dental system and oral cavity.

Topic 21. Dental manifestations of other diseases

Topic 22. Final lesson. Practical skills.

Topic 23. General concepts of human infectious pathology. Classification of infectious diseases. Intestinal infectious diseases.

Topic 24. Diseases caused by protozoa and helminths.

Topic 25. Viral airborne infections. HIV and AIDS. Rabies. Rickettsiosis. Prion infections.

Topic 26. Infections of childhood.

Topic 27. Tuberculosis. Sepsis. Particularly dangerous (convection, quarantine) infections. Syphilis.

Topic 28. Final lesson. Practical skills.

Topic 29. Preparation for the final control for the year.

List of recommended reading:

Basic:

1. Атлас мікропрепаратів з патоморфології / І.І. Старченко, Б.М. Филенко, Н.В. Ройко та ін.; ВДНЗУ “УМСА”.- Полтава, 2018.-190с.

2. Добраякісні новоутворення кісток щелепно-лищевої ділянки у дітей / П.І. Ткаченко, І.І.Старченко, С.О. Білокін [та ін.] – П.: “УМСА”, 2016. – 85с.

3. Загальна патоморфологія / І.І. Старченко, Н.В. Ройко, Б.М. Филенко [та ін.] – Полтава, 2016. – 136с.

4. Зербіно Д. Д. Патоморфологія та гістологія : атлас / Д. Д. Зербіно, М. М. Багрій, Я. Я. Боднар, В. А. Діброва. – Вінниця : Нова Книга, 2016. – 800с.

5. Интерпритация биопсий в педиатрии / под. ред. А.Н. Хусейн; пер. с англ. под общей ред. Ф.Г. Забозлаева. – М.: Практическая медицина, 2019. – 448с.

6. Криволапов Ю.А. Макроскопическое исследование биопсийного и операционного материала. Руководство для врачей-патологоанатомов / под. ред. Ю.А. Криволапова. – М.: Практическая медицина, 2019. – 352с.

7. Методики морфологічних досліджень / М.М. Багрій, В.А. Діброва, О.Г.

Пападинець, М.І. Грищук; за ред. М.М. Багрія, В.А. Діброви. – Вінниця: Нова Книга, 2016. – 328с.

8. Новоутворення щелепно-лицевої ділянки у дітей / П.І. Ткаченко, І.І. Старченко, С.О. Білоконь та ін. – Полтава: Тов. “АСМІ” – 2018. – 190с.

9. Основи патології за Роббінсом: у 2 томах. Том 1 / Віней Кумар, Абул К. Аббас, Джон К. Астер; переклад 10-го англ. видання. Видавництво: Всеукраїнське спеціалізоване видавництво “Медицина”. – Х П. – 2019. – 420с.

10. Основи патології за Роббінсом: у 2 томах. Том 2 / Віней Кумар, Абул К. Аббас, Джон К. Астер; переклад 10-го англ. видання. Київ. Видавництво: Всеукраїнське спеціалізоване видавництво “Медицина”. – 2020. – 523с.

11. Патоморфологія. Загальна патоморфологія: навчальний посібник / за ред. Я.Я. Бондара, В.Д. Волошина, А.М.Романюка. В.В.Гаргіна - Нова Книга, 2020. - 248 с.

12. Патоморфологія основних захворювань серцево-судинної системи: навчальний посібник / І.І. Старченко, Б.М. Филенко, Н.В. Ройко. – Полтава: “УМСА”. – 2019. – 150с.

13. Практикум з біопсійно-секційного курсу / І.І. Старченко, А.П. Гасюк, С.А. Проскурня [та ін.] – Полтава, 2016. – 160с.

14. Старченко І.І. Патоморфологія: збірник тестових завдань: навч. посіб. / І.І. Старченко, Н.В. Ройко, Б.М. Филенко, С.А. Проскурня; “УМСА”. – Полтава, 2020. – 239с.

15. Старченко І.І. Патоморфологія основних захворювань щелепно-лицевої ділянки : навч. посіб. / І.І. Старченко, Б.М. Филенко, В.В.Черняк ; “УМСА”. – Вінниця : Нова Книга, 2019. – 128с.

16. Старченко І.І. Спеціальна патоморфологія (базовий курс) для студентів медичних факультетів вищих медичних навчальних закладів III-IV рівнів акредитації / І.І. Старченко, Н.В. Ройко, Б.М. Филенко. – Полтава, 2017. – 174с.

17. Туффаха С. А. Муин Иммуногистохимия в диагностике опухолей / С. А. Туффаха Муин, С. Г. Гичка, Гуски Ганс. – "Книга плюс", 2018. – 336с.

18. Essentials of pathology : textbook / Ya. Bodnar, A. Romanyuk, V. Voloshyn, V. Gargine - Kharkiv, "Planeta-Print" Ltd, 2020.- 219p.

Additional:

1. Патоморфологія : нац. підруч. / В.Д. Марковський, В.О. Туманський, І.В. Сорокіна [та ін.]; за ред. В.Д. Марковського, В.О. Туманського. – К.: ВСВ «Медицина», 2015. – 936с.

2. Основні стоматологічні захворювання : навчальний посібник : у 2 ч. Ч. 1. Карієс, пульпіт, періодонтит, періостит, остеомієліт / А. М. Романюк, Є. В. Кузенко, О. І. Кузенко та ін. – Суми : Сумський державний університет, 2014. – 51 с.

3. Основні стоматологічні захворювання : навчальний посібник : у 2 ч. Ч. 2. Захворювання пародонта / А. М. Романюк, Є. В. Кузенко, О. І. Кузенко та ін. – Суми : Сумський державний університет, 2014. – 52 с.

4. Одонтогенные кисты и опухоли (диагностика и лечение) / В.А. Семкин, И.И. Бабиченко. - М. : ГЭОТАР- Медиа, 2017. - 160 с.

EVALUATION

Criteria for assessing the current educational activities of the student

When assessing the mastery of each topic, the student is graded on a 4-point (traditional) scale ("2", "3", "4", "5"). Components of traditional assessment:

1. Survey - 50% of the assessment (2 assessment points).

The survey is evaluated as follows:

0 points - the student does not know the answer to the question or refuses to answer.

1 point - the student answers the question, but makes significant mistakes or did not answer in full.

2 points - the student in full and unmistakably answered the question.

The student has the right to receive 1 additional point for active participation in the survey (additions to questions that other students could not answer), but in the amount of not more than 3 points for the survey.

2. Control of practical skills and abilities (analysis of macro- and microscopic changes of organs and systems in diseases) - 50% assessment (2 assessment points).

The control of practical skills is assessed as follows:

0 points - the student did not perform or incorrectly performed practical skills and abilities;

1 point - the student performed practical skills and abilities, but made significant mistakes;

2 points - the student correctly performed practical skills and abilities.

3. Independent work of students, which is provided by the topic of the lesson along with classroom work, is assessed during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is checked during the final control.

At the end of the study subjects current progress is calculated as the average current score is the mean arithmetic all student assessments obtained by traditional scale rounded to two (2) decimal places (eg, 4.76).

Final control of mastering (general lesson, exam)

A mandatory component of the curriculum is the final test control in the discipline, which includes 50 test questions (30 minutes), as an indicator of students' acquisition of knowledge. Compilation of the final test control takes place at the last practical lesson in the discipline at Center for Information Analysis and Internal Quality Control of Education (CIAIQCE) according to the schedule of the educational department, approved by the rector of the university. The student must provide the correct answers by at least 90% (45 questions). A paper copy of the results of test control in the discipline signed by the head of the Center is sent to the department. The teacher files a statement in the Journal of attendance and student

performance and puts assessments of current performance for the last lesson in the discipline, converting the results on the following scale:

- grade "excellent" - 50 correct answers;
- grade "good" - 47-49 correct answers;
- assessment of "satisfactory" - 45-46 correct answers;
- score "unsatisfactory" - 44 correct answers and less

A student who has not passed the final test control in the discipline is considered to have not completed the program in the discipline.

Only those students who do not have academic debts and have an average score of at least 3.00 for their current academic activity are allowed to take the final attestation (exam).

The student's exam is assessed on a 4-point (traditional) scale.

- the grade "excellent" is given to the student who systematically worked during academic year, showed during examination various and deep knowledge of a program material, is able to successfully carry out practical tasks on the description of macro- and micropreparations, has mastered the maintenance of the basic and additional literature, has understood interrelation of separate sections of the discipline, their importance for the future profession, showed creative abilities in understanding and using educational material, showed the ability to independently update and replenish knowledge; level of competence - high (creative);

- the grade "good" is given to the student who has shown full knowledge of educational program material, successfully carries out the practical tasks provided by the program on the description of macro- and micropreparations, has mastered the basic literature recommended by the program, has shown sufficient knowledge of discipline and is capable of their independent updating. and renewal in the course of further training and professional activities; level of competence - sufficient (constructive-variable);

- the grade "satisfactory" is given to the student who has shown knowledge of the basic educational program material in the volume necessary for the further training and the subsequent work on a profession, copes with performance of practical tasks on the description of macro- and micropreparations provided by the program, has made separate mistakes theoretical questions and in the performance of practical tasks, but has the necessary knowledge to overcome mistakes under the guidance of a research and teaching staff; level of competence - average (reproductive);

- the grade "unsatisfactory" is given to the student who did not show sufficient knowledge of the basic educational program material, made fundamental mistakes in performance of the practical tasks provided by the program on the description of macro- and micropreparations, cannot use knowledge at the further training without the help of the teacher. independent work; level of competence - low (receptive-productive).

To assess the discipline as a whole on a 4-point traditional (national) scale, the average score for the discipline is first calculated as the arithmetic mean of the two components:

- 1) the average current score as the arithmetic of all current estimates;
- 2) traditional grade for the exam.

The average score for the discipline is translated into the traditional grade from the discipline on a 4-point scale and is regarded as the ratio of this arithmetic mean to the percentage of mastering the required amount of knowledge in the discipline.

The obtained average score for the discipline allows you to convert to a score on a 200-point scale.

Thus, the student receives two grades: the first - on the traditional 4-point scale and the second - on a 200-point system.

The multi-point scale characterizes the actual success of each student in mastering the discipline. Conversion of the traditional grade from the discipline to 200-point is performed by the information and computer center of the university program "Contingent" according to the formula: the average score of the discipline x 40.

Thus we get:

national assessment	Points
«5»	185-200
«4»	151-184
«3»	120-150

The ECTS rating scale evaluates the achievements of students in the discipline who study in one course of one specialty, in accordance with the points obtained by them, by ranking, namely:

ECTS score Statistical indicator

ECTS assessment	Statistical indicator
"A"	the best 10% of students
"B"	the next 25% of students
"C"	the next 30% of students
« D »	the next 25% of students
" E "	the last 10% of students

The ECTS scale establishes the student's belonging to the group of the best or worst among the reference group of classmates (faculty, specialty), ie his rating. When converting from a multi-point scale, as a rule, the limits of grades "A", "B", "C", "D", "E" do not coincide with the limits of grades "5", "4", "3" on the traditional scale.

Students who receive grades " Fx " and "F" ("2") are not included in the list of ranked students. Such students automatically receive a score of "E" after re-assembly. The grade " Fx " is given to students who scored the minimum number of points for the current educational activity, but who did not pass the final control. Grade "F" is given to students who have attended all classes in the discipline, but did not score an average score (3.00) for current academic activities and are not admitted to the final control.

COURSE POLICY

Deadline and recompilation policy : Timely completion of the tasks set by the teacher in a timely manner is mandatory. For late performance of the task during the current / final control of knowledge the student receives an unsatisfactory grade. Reassignment is carried out according to the approved schedule with the permission of the dean's office.

Policy on academic integrity: independent performance of all types of work, tasks, forms of control provided by the work program of this discipline; providing reliable information about the results of their own educational (scientific) activities, used research methods and sources of information; copying and plagiarism are not allowed.

Attendance policy: attendance at lectures and practical classes is mandatory, exceptions are possible only if an individual study schedule is approved for an individual student. Late classes are not allowed. The omission of classes, regardless of the reason for the omission, the student of higher education works for the teacher in accordance with the schedule of consultations and practice of missed classes.

Mobile devices: the use of a mobile phone, tablet or other mobile devices during the lesson is not allowed (except in cases provided by the curriculum and guidelines of the teacher).

Behavior in the audience: observance of silence among students at lectures, exclusion - students' questions to the teacher regarding the explanation of the material ; working discussion atmosphere in practical classes during the survey; adherence to the ethics of academic relations.