Clinical Anatomy

1. IMPRINT

Academic Year	2022/2023
Department	Faculty of Dental Medicine
Field of study	English Dentistry Division
Main scientific discipline *(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)*	Medical sciences
Study Profile *(general academic / practical)*	General academic
Level of studies *(1st level /2nd level/ uniform MSc)*	Uniform MSc
Form of studies	Full-time program
Type of module / course *(obligatory / non-compulsory)*	Obligatory
Form of verification of learning outcomes *(exam / completion)*	Exam
Educational Unit / Educational Units *(and address / addresses of unit / units)*	Department of Descriptive and Clinical Anatomy 5 Chałubinskiego Street, 02-004 Warsaw, (+48 22) 629 52 83; 628 10 41

Head of Educational Unit / Heads of Educational Units	Prof. Bogdan Ciszek, MD, PhD
Course coordinator *(title, First Name, Last Name, contact)*	Prof. Bogdan Ciszek, MD, PhD; bogdan.ciszek@wum.edu.pl
Person responsible for syllabus *(First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)*	Robert Franczyk PhD, MD, DMD; rfranczyk@wum.edu.pl
Teachers	Robert Franczyk PhD, MD, DMD; rfranczyk@wum.edu.pl

2. BASIC INFORMATION

Year and semester of studies	I year, I and II semesters	**Number of ECTS credits**	10

FORMS OF CLASSES	**Number of hours**	**ECTS credits calculation**
Contacting hours with academic teacher		
Lecture (L)	20	0,8
Seminar (S)		
Discussions (D)		
e-learning (e-L)		
Practical classes (PC)	115	4,6
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	115	4,6

3. COURSE OBJECTIVES

O1	Aquire the knowledge about parts and organs of the human body (shape, structure, topography, relationships to neighboring organs)
O2	Know the construction and usage of anatomical terminology
O3	Know the descriptive and topographic anatomy of the head, neck and the stomatognathic system.

O4	Know the anatomy of stomatognathic system (e.g. be able to describe the structure of permanent and deciduous teeth, be able to describe the features of a correct occlusion in three planes, be able to describe the structure and function of the temporomandibular joint, be able to describe the structures of the stomatognathic system in examinations: radiographic, CT, CBCT, MRI).
O5	Know the main clinical terms and apply the acquired knowledge on the structure and function of organs as a basis for learning clinical subjects

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING *(concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)*

Code and number of effect of learning in accordance with standards of learning *(in accordance with appendix to the Regulation of Minister of Science and Higher Education from 26th of July 2019)*	**Effects in time**
Knowledge – Graduate* knows and understands:	
A.W1.	structures of the human body: cells, tissues, organs and systems, with particular emphasis on the dental system;
A.W2.	development of organs and the whole organism, with particular emphasis on the masticatory system;
A.W3.	the structure of the human body in a topographic and functional approach;
A.W4.	the role of the nervous system in the functioning of individual organs;
A.W5.	functional importance of individual organs and the systems they create;
A.W6.	anatomical justification of the physical examination.
Skills– Graduate* is able to:	
A.U1.	interpret anatomical relations illustrated with the basic methods of diagnostic tests in the field of radiology (overview and contrast media radiographs);

** In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate", not student is mentioned.*

5. ADDITIONAL EFFECTS OF LEARNING *(non-compulsory)*

Number of effect of learning	**Effects of learning in time**
Knowledge – Graduate knows and understands:	

K1	Knows, describes, explains the human body structure using anatomical names in English
K2	demonstrates knowledge of the structures of the human body, with particular emphasis on the stomatognathic system.
K3	characterizes development of the stomatognathic system.
K4	knows the development, topography and function of organs learned during practical classes, on X-rays, ultrasound, CT, MRI, endoscopic images as well as the relationship between the structure and function of the organ
K5	knows the basic issues of clinical anatomy and a basis for further study of clinical subjects
K6	understands respect for the human body, also during practical classes in relation to human corpses

Skills– Graduate is able to:

S1	use anatomical terminology in spoken and written English
S2	recognize anatomical structures on cadavers, anatomical models and diagnostic radiological examinations (CT, CBCT, MRI, X-ray)
S3	use the acquired anatomical knowledge of human anatomy in clinical subjects

Social Competencies – Graduate is ready for:

SC1	showing respect for the human body (also human corpses)
SC2	continuation of self-education with medical confidentiality

6. CLASSES

Form of class	Class contents	Effects of Learning
Lectures		
Lecture 1	Introduction to the gross and clinical anatomy. Role of anatomy in medicine. Classification and morphology of bones. Classification of joints.	A.W1, A.W3, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 2	Bones, joints, ligaments, superficial and functional anatomy of the vertebral column, thorax and pelvis. Bones, joints, ligaments of upper and lower limb.	A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 3	General topography of the skull. Temporomandibular joint. Surgical anatomy of the skull.	A.W1, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 4	Classification of the central nervous system. Development of the central nervous system. Cerebrospinal fluid and ventricular system of the brain.	A.W4, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 5	Sensory pathways and centers in the central nervous system. Diencephalon.	A.W4, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 6	Motor pathways and centers in the central nervous system. Cerebellum.	A.W4, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2

Lecture 7	General topography of the neck. Triangles and muscles of the neck. Cervical plexus.	A.W3, G.K.5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 8	Vascular system of head and neck. Larynx.	A.W3, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 9	Facial development. Facial nerve – clinical syndromes.	A.W2, A.W3, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2, K3
Lecture 10	Oral cavity, salivary glands. Trigeminal nerve – clinical syndromes.	A.W1, A.W3, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 11	Surgical anatomy of the head and neck.	A.W1, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 12	Autonomic system of head and neck. Eye, Ear.	A.W3, A.W4, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 13	Teeth. Periodontium.	A.W1, A.W2, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 15	Occlusion. Stomatognathic system.	A.W1, A.W2, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2, K3
Lecture 15	Thorax: general topography, muscles and fascia. Axilla – walls, content. Breast.	A.W3, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 16	Mediastinum. Lungs and pleura. Physiology of breathing. Heart – anatomy, vessels. Blood circulation.	A.W3, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 17	Abdomen – walls, cavity, regions. Inguinal region. Peritoneum and peritoneal cavity. Esophagus, stomach, small intestine, large intestine. Liver. Pancreas.	A.W3, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 18	Urinary system. Male, female reproductive system.	A.W3, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 19	Upper limb.	A.W3, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Lecture 20	Lower limb.	A.W3, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes		

Laboratory classes 1	Axial skeleton, Vertebrae, Ribs.	A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 2	Upper extremity.	A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 3	Lower extremity.	A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 4	Bones of the skull 1.	A.W2, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 5	Bones of the skull 2.	A.W2, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 6	Joints, fossae, canals and spaces of the skull.	A.W2, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 7	Radiology in osteology. Repetition.	A.W2, A.W5, A.U1, K1, K2, K4, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 8	Introduction, general structure of CNS. Spinal cord. Spinal nerve. Vascularization of the CNS. Circle of Willis. Cranial meninges: structure, layers, meningeal spaces.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 9	Telencephalon. Lateral ventricle, Basal ganglia.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 10	Diencephalon. third ventricle. Brainstem. Cranial nerves.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 11	Identification of elements of the CNS sensory pathways.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 12	Identification of elements of the CNS motor pathways. Cerebellum. Fourth ventricle.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 13	Radiology and repetition of the CNS. Repetition.	A.W4, A.W5, A.W6, A.U1, K1, K2, K4, K5, K6, S1, S2, S3, SC1, SC2

Laboratory classes 14	Skin. Neck: triangles, fascias. Platysma.	A.W3, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 15	Cervical plexus. Neck: muscles.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 16	Thyroid gland, parathyroids. Vessels of the neck. Cranial nerves: X, XI.(classes 45 min. longer).	A.W3, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 17	Larynx, trachea. Sympathetic trunk.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 17	Muscles of face. Facial nerve and artery. Parotid gland.(classes 45 min. longer).	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 18	Muscles of mastication. TMJ.	A.W1, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 19	Oral cavity, teeth, gums, tongue, palate. Trigeminal nerve V3.(classes 45 min. longer).	A.W1, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 20	Nasal cavity. Fauces. Pharynx.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 21	Maxillary nerve. Maxillary artery.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 22	Orbit, eye. Ear. Hearing organ. Temporal bone. Dura mater. Dural sinuses(classes 45 min. longer).	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 23	Facial development. Local anesthesia in dentistry.	A.W2, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2, K3
Laboratory classes 24	Spaces and fossae of head and neck.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 25	Radiology of H&N. Repetition (classes 45 min. longer).	A.W1, A.W5, A.W6, A.U1, K1,

		K2, K4, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 26	Repetition and 1st intermediate credit - pins.	A.W1, A.W3, A.U1, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 27	Repetition and 1st intermediate credit - theory.	A.W1, A.W2, A.W3, A.W4, A.W5, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 28	Teeth – anatomy, blood supply, innervations, time of eruption, developmental abnormalities.	A.W1, A.W2, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2, K3
Laboratory classes 29	Human dentition. Norms of occlusion (classes 45 min. longer).	A.W1, A.W3, A.W5, K1, K2, K4, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 30	Thorax: Fascia of the thoracic wall. Muscles Breast Axillary fossa. Axillary artery, Axillary vein. Internal thoracic artery. Intercostal space anatomy – vessels and nerve.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 31	Mediastinum Diaphragm Phrenic nerve. Thymus.Trachea and main bronchi. Pleurae. Lungs. Breathing.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 32	Pericardium. Heart. Valves. Coronary arteries. Veins of the heart. Innervation; Conducting system of the heart. Blood circulation. Thoracic aorta, pulmonary trunk. Superior and inferior vena cava.	A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 33	Topography of esophagus, vagus nerve. Thoracic duct. Azygos system of veins. Vessels and lymph nodes of the posterior mediastinum. Sympathetic trunk – thoracic part.	A.W3, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 34	Medical imaging of the thorax.	A.W4, A.W5, A.W6, A.U1, K1, K2, K4, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 35	Abdominal wall, fascia, muscles, nerves, blood vessels, internal surface. Inguinal region. Peritoneum. Esophagus, stomach, small intestine. Celiac trunk, superior mesenteric artery. Pancreas, spleen. (classes 45 min. longer)	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 36	Large intestine. Inferior mesenteric artery. Liver, gallbladder. Biliary ducts. Hepatic portal system. (classes 45 min. longer)	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2

Laboratory classes 37	Posterior abdominal wall – fascia, muscles (blood support, innervation), nerves, blood vessels. Lumbar plexus. Abdominal aorta, common iliac artery, inferior vena cava – topography, branches, range of blood support/intake. Sympathetic trunk.	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 38	Retroperitoneal space. Kidneys, suprarenal glands, ureter, urinary bladder, male and female urethra - anatomy, functions, blood support, innervation.	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 39	Pelvic cavity – bones, walls, floor, fascia, nerves, blood vessels. Internal iliac artery – topography, branches, range of blood support. Female internal genital organs and perineum - anatomy, functions, blood support, innervation. (classes 45 min. longer).	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 40	Male internal genital organs and perineum - anatomy, functions, blood support, innervation. Abdomen and pelvis training pins (45 min. longer classes).	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 41	Medical imaging of the abdomen and pelvis.	A.W3, A.W4, A.W5, A.W6, A.U1, K1, K2, K4, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 42	Attachment, functions, blood support, innervation of: extrinsic back muscles, erector spinae, posterior axioappendicular muscles (superficial and deep), scapulohumeral muscles, muscles of the arm. Thoracolumbar fascia. Axillary, musculocutaneus nerves and blood vessels of the arm - topography, branches, range of blood support / innervation. (classes 45 min. longer)	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 43	Muscles of the forearm, hand - functions, blood support, innervation. Cubital fossa – boundaries, content. Radial and ulnar arteries - topography, branches, range of blood support. Radial, ulnar and median nerves - topography, branches, innervation. Veins of the forearm. Places of pulse palpation.	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 44	Thigh and gluteal region, muscles, blood vessels, nerves. Inguinal lymph nodes. Iliotibial tract.	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 45	Popliteal fossa – content, relations of structures. Leg and foot – muscles, blood vessels, nerves.	A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 46	Bones, joints of the upper and lower limbs – repetition, medical imaging.(classes 45 min. longer)	A.W3, A.W4, A.W5, A.W6, A.U1, K1, K2, K4, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 47	Repetitoin and 2nd intermediate credit – pins.	A.W1, A.W3, A.W4, A.W5, A.W6, A.U1, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 48	Repeatitoin and 2nd intermediate credit – theory.	A.W1, A.W3, A.W4, A.W5, A.W6, K1, K2, K5,

		K6, S1, S2, S3, SC1, SC2
Laboratory classes 49	Repetition. Admission credit – pins.	A.W1, A.W3, A.W4, A.W5, A.W6, A.U1, K1, K2, K5, K6, S1, S2, S3, SC1, SC2
Laboratory classes 50	Repetition. Admission credit – theory (classes 45 min. longer).	A.W1, A.W2, A.W3, A.W4, A.W5, A.W6, K1, K2, K5, K6, S1, S2, S3, SC1, SC2

7. LITERATURE

Obligatory

1. Moore KL, Dalley AF, Agur AMR. Clinically oriented anatomy. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins
   The basic textbook to prepare for the laboratory classes and theoretical tests. Multiple choice questions are written according to this book and lectures. Please read clinical blue boxes as well – they will expand your understanding of clinical importance of anatomical structures you learn about. Some of clinical issues may be also included in the tests.
2. Snell RS. Clinical neuroanatomy. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins; 2010
   The basic textbook of clinical neuroanatomy. We recommend it for the CNS section.
3. Fitzgerald MJT, Gruener G, Mtui E. Clinical Neuroanatomy and Neuroscience. Saunders; 2012
   A comprehensive textbook of clinical anatomy of the central nervous system. We recommend it for the CNS section.
4. Dauber W, Feneis H. Pocket atlas of human anatomy : Founded by Heinz Feneis. Stuttgart ; New York: Thieme
   An illustrated dictionary of anatomical nomenclature based on Terminologia Anatomica, useful for practical classes, repetitions and practical tests.

Supplementary

1. FIPAT. Terminologia Anatomica. International Anatomical Terminology. Stuttgart, New York: Thieme; 2011
   The official anatomical terminology. The reference book in case of any discrepancies regarding the terminology used by various authors.
2. Gilroy AM, MacPherson BR, Ross LM, Schünke M, Schulte E, Schumacher U. Atlas of anatomy. New York: Thieme; 2012
   A good and popular anatomical atlas. Our recommendation.
3. Sobotta – Atlas of Human Anatomy or Atlas of Anatomy
   There are numerous editions of one of the most popular anatomical atlases worldwide. Editors and publishers are different, but illustrations are the same.
4. Rohen JW, Yokochi C, Lütjen-Drecoll E. Color atlas of anatomy : A photographic study of the human body. Baltimore: Lippincott Williams & Wilkins; 2011
   An atlas with photographs of real anatomical specimens.

8. VERIFYING THE EFFECT OF LEARNING

Code of the cource effect of learning	Ways of verifying the effect of learning	Completion criterion
e.g. A.W1, G.C1, K1	*This field defines the methods used for grading students e.g. pop quiz, test, written report etc.*	*e.g. threshold number of points*
A.W1., A.W2., A.W3., A.W6.,	Participation in lectures and exercises	passing quizzes

A.U1., W1-W6, U1-U3., K1-K2.,	Quiz in each class - documented in the student's card Students have to participate in the intermediate credit (60 MCQ points and 60 practical test points).	The subject ends with a test and practical exam for evaluation. Obtaining ≥ 65% correct answers in both parts The verification covers all categories of areas (knowledge, skills and social competences).
A.W1., A.W2., A.W3., A.W4., A.W5., A.W6., A.U1.	Participation in lectures and exercises Quiz in each class - documented in the student's card Students have to participate in the intermediate credit (60 MCQ points and 60 practical test points). A test (colloquium) summarizing knowledge in a specific area in a practical (pins) and written form (test) 65% of correct answers	passing quizzes The subject ends with a test and practical exam for evaluation. Obtaining ≥ 65% correct answers in both parts The verification covers all categories of areas (knowledge, skills and social competences).

9. ADDITIONAL INFORMATION *(information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)*

INTERNAL REGULATIONS OF THE DEPARTMENT OF DESCRIPTIVE AND CLINICAL ANATOMY

In the case of on-line teaching in the academic year 2022/2023, an amendment to the regulations will be provided.

1. In order to complete a semester, a year and to pass Final Anatomy Examination student should participate actively in lectures and practical classes. Participation in practical classes is obligatory.
   CAUTION: During the course of anatomy, the student is supposed to have the knowledge acquired from all previous practical classes and lectures.
2. The course of anatomy is divided into eight following modules:
   (a) osteology and arthrology, (b) central nervous system, (c) head and neck, (d) thorax, (e) abdomen, (f) retroperitoneal space and pelvis, (g) upper limb and back, (h) lower limb.
3. Student is obliged to participate in a credit during each of practical classes (except for some of them mentioned in the class schedule) – the theoretical part based on multiple choice questions (MCQ – 6 questions and 4/6 points to pass) and the practical part based on the practical (pin) test (4 pins, 5/8 points to pass). The credit can only be taken by students present throughout the whole class (**a late student cannot enter the dissecting room, which is considered an absence**) and cannot be retaken.
4. Moreover, students should participate in two intermediate credits (60 MCQ points and 60 practical test points, no 2nd terms/retakes are organized).
5. In the end of the academic year, points are summarized. In order to be admitted to the final examination in anatomy, a student has to obtain 65% of total number of points (credits and intermediate credits points) both in theoretical and practical parts.
6. Those who failed to get the required number of points have a chance to be allowed to take the final examination on the basis of the admission test organized in the end of May. It consists of MCQ questions and practical test points (the student must take the part from which he did not obtain the required number of points to be admitted to the final examination). In order to

pass, the student has to obtain 65% of points on each of the two components. No other attempts are to be organized by the Department of Descriptive and Clinical Anatomy. A student who fails any part of the admission credit cannot take the exam.

7. Absence exceeding four practical classes per semester excludes completion of the semester. The student is therefore not allowed to take the final examination in anatomy.
8. The final examination in anatomy is scheduled in summer examination period and consists of two parts: practical (pin) test and theoretical (Multiple Choice Questions test). The level to pass the practical examination is 36/40 basic points (the basic points list is available on the website of the Department of Descriptive and Clinical Anatomy) and 76/120 total score. The level to pass MCQ is 76/120. Examination grades according to points: 152-169 – satisfactory, 170-187 – better than satisfactory, 188-205 – good, 206-223 – better than good, 224-240 – very good.
9. Retake of the Final Anatomy Examination is administered in September. Only the failed components are to be retaken.
10. Practical anatomy involves students in the examination and dissection of human subjects. This privileged opportunity relies on the generosity of local people who recognize the value to medicine that the practical study of human anatomy can provide and generously make their bodies available for that purpose to medical and science students.
    It is important that, at all times, you respect that generosity and behave accordingly. The students must wear long trousers or skirts otherwise they will not enter the Dissection Room.
11. Much of the course work is carried out in the Dissection Room. To enter it students will need to provide themselves with clean white lab coats, white protective cap or headscarf and photo ID badge. Changing of the clothes must be done outside the Dissection Rooms only.
    Students are allowed to enter the Dissection Room only in time of practical classes of her/his students' group if not otherwise specified.
12. Unauthorized persons must not enter the Dissection Rooms.
13. Students MUST care about hygiene. In particular:
    1. have clean hands with short, unpolished nails; no jewelry is allowed,
    2. use protective gloves while examining of specimens,
    3. in the case of minor injuries rinse the wound in tap water and manage it properly.
14. While examining the specimens, sufficient care should be applied to prevent the damage or loss of the specimen.
15. Leaders of the student's groups are responsible for damage or loss of the specimen.
16. Smoking in the area of the Department of Anatomy, as in whole building of Collegium Anatomicum, is prohibited.
17. Eating and drinking in Dissection Rooms is prohibited.
18. The students can, and are encouraged, to bring the anatomical tweezers, books and atlases to the Dissection Rooms.
19. To gain from the practical classes as much as possible, the students should have sufficient theoretical knowledge about the current topic.
20. At the end of practical classes students should fix the specimens according to the teaching assistant suggestions.
21. Taking of any photos or movies in dissection room is strictly prohibited!
22. It is not allowed to use mobile phones in the area of the Department of Anatomy!
23. Students who do not follow the regulations and do not react to the warnings can be expelled from the class. In all the cases such event will be reported in student's files. In special cases the Dean will be informed about the student's misbehavior.

According to the epidemiological status the lectures and laboratory classes can be transferred to the e-learning platform by decision of the Rector Magnificus of Warsaw Medical University (seperate regulations will be published then).

GUIDELINES FOR THE SEMESTRAL AND FINAL PIN TESTS

Two structures marked with pins should be recognized on each of thirty stations.
There are 60 seconds of time per station.
It is not allowed to touch, move or rotate specimens.
The maximum score for one pin is 2 points.

Examples:
left superior thyroid a. – 2 p.
right superior thyroid a. – 1 p.
superior thyroid a. – 1 p.
thyroid a. – 0 p.
left – 0 p.

Attention! Recognition of single structure in the way suggesting that the structure is paired or multiple = 0p.
Example: right *trachea, left falx cerebri, superior tentorium cerebelli*

Final examination
On the final examination you need 76 points to pass.
First 20 pins are so called basic points, it means the basic anatomical structures which should be known to every MD.
These points will be scored 2 or 0 points only!

Example: pin shows the left common carotid a

- left common carotid a. - 2 p.
    - right common carotid a. - 0 p.
    - common carotid a. – 0 p.
    - carotid a. – 0 p.
    - carotid – 0 p

You can make only two mistakes in the basic points section! In order to pass, you need at least 36 points from this section.

The basic points list

In all cases of paired structures (basic points from the skull, head, neck) the side has to be given!

THE SKULL

1. frontal bone
2. ethmoid bone
3. temporal bone
4. sphenoid bone
5. parietal bone
6. occipital bone
7. maxilla
8. zygomatic bone
9. palatine bone
10. nasal bone
11. mandible
12. alveolar part of mandible
13. alveolar process of maxilla
14. carotid canal
15. external acoustic meatus
16. nasolacrimal canal
17. hypophyseal fossa
18. pterygoid canal
19. trigeminal impression
20. mandibular foramen
    mandibular canal
21. external occipital protuberance
22. groove for superior sagittal sinus
23. groove for transverse sinus
24. groove for sigmoid sinus
25. dental alveolus (of mandible or maxilla with the side)

<u>all foramina and canals which contain cranial nerves (for the trigeminal nerve – foramina / canals for ophthalmic, maxillary, mandibular nerves)</u>

HEAD

1. facial a.
2. parotid gland
3. upper lip
4. lower lip
5. mouth = rima oris
6. angle of mouth
7. oral vestibule
8. cheek
9. pulp chamber = pulp cavity
10. dentine
11. enamel
12. cementum
13. superior gingiva
    inferior gingiva
14. crown of tooth
15. neck of tooth
16. root of tooth
17. frenulum of upper lip
18. upper eyelid

19. lower eyelid
20. external nose
21. mentum
22. masseter m.
23. temporalis m.
24. medial pterygoid m.
25. lateral pterygoid m.
26. temporomandibular joint
27. superior / inferior gum
28. interdental papilla between teeth ... and ... (FDI notation)
29. tongue
30. hard palate
31. uvula
32. palatine tonsil
33. pharyngeal tonsil
34. pharyngeal orifice of the auditory tube
35. maxillary sinus
36. frontal sinus
37. sphenoid sinus
38. middle nasal concha
39. trigeminal ganglion
40.inferior alveolar n.
41. lingual n.
42. maxillary a.
43. superficial temporal a.
44. falx cerebri
45. tentorium cerebelli
46. superior sagittal sinus
47. transverse sinus
48. sigmoid sinus
49. optic n.
50. eyeball
51. tympanic cavity
52. tooth (+ FDI / two-digit system number or description of the tooth; example: tooth 21 or left upper medial permanent incisor)

NECK
1. sternocleidomastoid m.
2. common carotid a.
3. internal carotid a.
4. external carotid a.
5. internal jugular v.
6. external jugular v.
7. trachea
8. thyroid gland
9. hyoid bone
10. epiglottis
11. vocal fold
12. thyroid cartilage
13. digastric m.
14. hypoglossal n.
15. submandibular gland
16. subclavian a.
17. subclavian v.
18. vagus n.
19. phrenic n.
20. anterior scalene m.
21. mylohyoid m.