		Sy	llabus	for a	cadem	1/202	22-20	21/202 25/202	26					
	-	Ira	aming	Descri	iption o	f the	course	:						.1+0
ourse					OTANA			3	Gro	up of de up code A	e	Group ORPH(name	
	Faculty	of De	ntistr	V										
aculty			2110100	/										
Najor evel of studies	X unifo	Dentistry X uniform magister studies												
form of studies	X full-t	time								Vwir	ter	- 1		
ear of studies	777				,	Semester: X winter X summer								
Type of course	X obli	gatory	1											
Language of study	X Eng	lish			Numbe	- of b	ours							
0 0					Form of	er of II	ation							
						Educ	ation							
		Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	F-learning (EL)
Winter semester:													1	\top
Department of Norm Anatomy (Dep. in charge of the									5					
Direct (contact) edu					60									
Distance learning ²		10	5		2									
Summer semester	:													
Department of Normanatomy (Dep. in charge of the														
Direct (contact) ed											_			+
Distance learning		10	5											

 $^{^{1}}$ Education conducted with direct participation of university teachers or other academics 2 Education with applied methods and techniques for distance learning

					01 28	April 202	21			
Department of Normal Anatomy			3.7		2.1.1.			T	T	Т
(Dep. in charge of the course)										
Direct (contact) education			120			1 4				
Distance learning	20	10								
Educational objectives (max	x. 6 ite	ms)								-

- C1. Teaching students the normal structure of the human body with its functional aspects.
- C2. Teaching students the regional anatomy of all parts of the human body.
- C3. Teaching students the anatomical and basis of medical terminology.
- C4. Development social competences needed to practice the medical profession, in accordance with

Education result for course in relation to verification methods of the intended education result and the type

Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education	Form of didactic class
A.W1	The student knows and		*enter the abbreviation
	The student knows and understands the structures of the human body: cells, tissues, organs and systems, with particular emphasis on the stomatognathic system;	written answer and	L, SE, MC
A.W3	The student knows the structure of the human body in the topographic and functional approach	TESTS I-II-III-IV, a / part practical - identifying and entering the name in Latin or English on the answer sheet 7 anatomical details selected from the base list and marked on specimens, dice, boards.	
		b / part theoretical - in the form of an oral answer to the selected questions, summarizing a specific range of practical knowledge (PRACTICAL ISSUES — presented on classes) and theoretical knowledge of anatomy, including the following sections: I. osteology with syndesmology; II, III. prosectorial part muscles, vessels, peripheral nerves,	
A.W5	I S C C	nternal organs; V. central nervous ystem and sense organs. HEORETICAL EXAM - Vritten test multiple- hoice questions or	

,			
	The student knows and understands the anatomical principles of the physical examination	EXAM PRACTICAL	
A.U1	The student is able to identify the normal anatomical structures on the intravital images (USG, CT, MRI) in the basal degree.	Entering the correct name 30 indicated by an arrow on slides, bones, models, posters of anatomical details in English.	L, MC

^{*} L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSCclasses in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VPvocational practice; DSS- directed self-study; EL- E-learning

vocational practice; DSS- directed self-study, EE E teaming Student's amount of work (balance of ECTS points):	Student Workload
ctudent's workload	
(class participation, activity, preparation, etc.)	130
1. Number of hours of direct contact:	20
Number of hours of distance learning:	330
3. Number of hours of student's own work:	0
Number of hours of directed self-study	480
Total student's workload	16
	their didactic form and remember how it is

Content of classes: (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

The lectures are correlated with practical classes and apart from the information about the body structure provide the basic functional and clinical aspect of teaching deals.

Introduction to anatomical terminology (anatomical position, anatomical orthogonal axis, anatomical planes, terms of relationship, terms of movement).(1 hours)

Classification of bones. Classification of joints. The structure, classification and movements of synovial

Practical aspects of anatomy of vertebral column (vertebral canal, intervertebral foramina).

The carpal tunnel and its contents. The joints of the hand /generally/.(1 hours)

The pelvic girdle. Pelvic bones (structure; gender differences). Joints of the pelvic girdle (the pubic symphysis and the sacroiliac joint).(1 hours)

The skull as a whole: joints of the skull (sutures and temporomandibular joint). Craniovertebral joints.

Norma superior and basalis of the skull.(1 hour)

The exterior of the skull (temporal, infratemporal and pterygopalatine fossa). The bony landmarks of the skull.(1 hours)

The Digestive System :salivary glands. Facial nerve – peripheral part /VII/. (1 hours)

Tongue – structure, vasculature, sensorial and motorial innervation; the soft palate. Veins of the head and neck. (1 hours)

The Respiratory System / paranasal sinuses; larynx - laryngeal cartilages, ligaments, muscles, cavity; glottis/.(1 hours)

The brachial plexus /structure, position, branches/. The course of the nerves of brachial plexus on the upper limb. Superficial and deep venous drainage of the upper limb. Surface anatomy of the upper limb.(1 The second semester:

The inguinal canal. The femoral and obturator canals.(1 hour)

The cutaneous innervation of the lower limb. The muscles of the foot (in general). The nerves and vessels of

The azygos system of veins. The superior and inferior caval veins. The fetal circulation. The postnatal

The innervation and conducting system of the heart. Blood supply of the heart.(1 hours)

The diaphragm. The peritoneum and the peritoneal cavity. The lesser sac (omental bursa).

The big sympathetic plexuses.(1 hours)

The perineum. The urogenital diaphragm, the perineal fascias and spaces.(1 hours)

The olfactory nerve (CN I). The olfactory system. The limbic lobe and system. (1 hours)

The cerebral cortex. The most important functional areas of the cerebral cortex. The pyramidal system. (1

Arterial circle of Willis. Blood supply of the brain and spinal cord (arteries, veins and venous dural sinuses).(1

Tracts of the CNS . The extrapyramidal motor system. The reticular formation.(1 hours) The autonomic nervous system.(1 hours)

Seminars

The first semester:

The detailed anatomy of maxilla (2 hours) and mandible (2 hours). Innervation and vascularization of oral The second semester

The innervation and vascularization of teeth and gums (1 hour). Anatomy of eye (2 hours) and ear (2 hours).

Are performed in dissecting room with using the following methods: presenting of previously dissected material, dissection if possible, plastic models and computer teaching. Subjects of practical classes are the following:

In the first semester:

The individual vertebrae. General vertebral characteristics. Structure of the first and second cervical vertebra. The sacrum and coccyx. The skeletal framework of the thorax (ribs and the sternum).(2 hours) The axial skeleton. Joints of the axial skeleton. Joints of the vertebral column and thorax. Mechanical movements of the thorax. The vertebral column (general characteristic, curvatures, movements).(2 hours) Skeleton of the shoulder girdle - the clavicle, the scapula. Skeleton of the free upper limb. The bones of hand /generally/. Joints of the shoulder girdle - the sternoclavicular and the acromioclavicular joint. Joints of free upper limb (shoulder joint, elbow joint and wrist joint).(2 hours)

Pelvic bones. Skeleton of the free lower limb (the femur, the patella, the tibia, the fibula). Bones of the foot - the calcaneus, the talus /in detail/. The others bones of the foot /generally/. (2 hours.).

Joints of the free lower limb – the hip, the knee and the ankle joint. Joints of the foot - the midtarsal and the tarsometatarsal joints /in detail/. The joints of the foot /generally/. (2 hours)

Bones of the skull: the frontal, the sphenoid, the occipital, the parietal and the temporal bones. The canals of the temporal bone. (5 hours)

The even bones of the face: the palatine, the lacrimal, the inferior nasal concha, the zygomatic, the nasal and the maxilla (the upper jaw bone). (5 hours)

The odd bones of the face: mandible (lower jaw bone) and hyoid bone, ethmoidal bone, vomer.(5 hours) The interior of the cranium - the anterior, middle and posterior cranial fossa. The skull as a whole: the orbital cavity, the nasal cavity. (3 hours)

The general knowledge of muscles, vessels and nerves.(3 hours)

Facial muscles – classification and innervation. Facial artery. Parotid gland and its innervation. (3 hours)

Trigeminal Nerve (1st ,2nd , 3rd branches). The maxillary artery. The muscles of mastication.(3 hours).

The oral vestibule and proper oral cavity. The teeth. The palatine tonsils. The muscles of the neck.

Triangles of the neck. The cervical plexus.(2 hours)

The pharynx. The nose and nasal cavity. Paranasal sinuses. The glossopharyngeal nerve /IX/.

The external carotid artery. The internal jugular vein. The accessory nerve /XI/. Hypoglossal nerve /XII/.(3

Muscles of the thoracic wall /superficial and deep/. The subclavian artery. The brachiocephalic vein. (3

Larynx. The vagus nerve (cranial and cervical part). Thyroid and parathyroid glands.(3 hours)

The axilla. The axillary artery. The muscle of the upper limb /scapulohumeral, arm muscles/.(2 hours)

The muscle of the upper limb /arm, forearm and hand muscles/. Arterial vasculature of the upper limb.

The cubital fossa and its contents /the cubital anastomosis/.(2 hours)

The cutaneous nerves of the upper limb. The carpal tunnel /contents/. (2hours)

Superficial back muscles. Deep back muscles /generally/.(2 hours)

The dorsal primary rami of the spinal nerves . The muscles of the gluteal region. (2hours)

The sacral plexus. The sciatic nerve. The common iliac artery. (2 hours)

The abdominal wall. The rectus abdominis and its sheath. The oblique and transverses abdominal

The muscles of the thigh. The femoral triangle. The adductor (subsartorial) canal. The lumbar plexus. The muscles.(3 hours) obturator and femoral nerves. The external iliac artery. The femoral artery. The saphenous vein.(2 hours) The popliteal fossa. The genicular anastomosis. The muscles of the leg. The anterior and posterior tibial arteries. The tibial and common fibular nerves. (3 hours)

The thoracic cavity. The thoracic aorta. The arrangement of the thoracic viscera. The mediastinum – its

The pleural cavity and its recesses. The esophagus. The trachea and principal and lobar bronchi. The vagus nerve (X) /thoracic part/.(3 hours)

The thoracic duct and mediastinal lymph nodes. The lungs (external and internal anatomy). The bronchopulmonary segments. The blood vessels of the lungs.(3 hours)

The heart (external and internal anatomy). The position of the heart. The pericardial sac. (3 hours) The abdominal region and location of abdominal viscera. The abdominal aorta and its branches. The

stomach. The duodenum. The small and large intestine.(3 hour)

The liver, gallbladder and biliary ducts. The vagus nerve (X) /abdominal part/. The spleen. The pancreas.(3

The muscles of the posterior abdominal wall. The retroperitoneal space. The kidneys, ureters and urinary bladder. The female and male urethra.(3 hours)

The pelvic cavity. The female internal and external genital organs. The male internal and external genitalia.

The pudendal nerve. The internal iliac artery.(3 hours) Gross anatomy of the brain (introduction). Development of the nervous system. Meninges and cerebrospinal fluid (CSF). Divisions of the brain. The location of cranial nerves on the base of the brain. (4

The division of the cerebral hemispheres on the lobes and gyri. The presentation of the insular lobe. The cerebral commissures – the primary and secondary interhemispheral conections. (3 hours)

The white matter of the cerebral hemispheres. The basal ganglia. The internal capsule. The location of cerebral capsules. The lateral ventricles of the brain. (3 hours)

The diencephalon (the interbrain): division; internal and external structure. The third cerebral ventricle. (3 hours)

The mesencephalon (the midbrain): division; external and internal structure. The pons – external and internal structure. The nuclei of the cranial nerves: V, VI, VII (trigeminal, abducent, facial). The fourth

The medulla oblongata: internal and external structure. The nuclei of the cranial nerves: VIII, IX, X, XI, XII (vestibulocochlear, glossopharyngeal, vagus, accessory, hypoglossal).(3 hours)

The cerebellum: external and internal structure. The major cerebellar pathways.(3 hours)

The spinal cord: external and internal morphology. The meninges of the spinal cord. The repetition of the

The eye and related structures. The auditory and vestibular apparatus.(2 hours)

Other

Not applicable

Basic literature (list according to importance, no more than 3 items)

- 1. Moore K. L., Dalley A.F.; Clinically Oriented Anatomy; Lippincot Williams and Wilkins; fifth edition or
- 2. Young, Paul A; Young Paul H; Basic clinical neuroanatomy; Lippincot Williams and Wilkins; latest edition;
- 3. Agur, Anne M.R.; Lee, Ming J.; Grant's atlas of anatomy; Williams and Wilkins, latest edition ISBN: 0-

Additional literature and other materials (no more than 3 items)

- 1. Richard Drake; Gray's Anatomy for Students; 2005 Churchill Livingstone; ISBN 0443066124
- 2. James D. Fix; Neuroanatomy; Williams and Wilkins, latest edition, ISBN 0-683-03249-6
- 3. Any atlas of anatomy

Preliminary conditions: (minimum requirements to be met by the student before starting the course) Basic knowledge of biological sciences.

Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student

Attention! Attendance can not be a condition for passing the course **CREDIT**

Active participation in classes, seminars and lectures.

Knowledge of the material from the abandoned exercises and/or lectures checked orally or on the basis of prepared essay during the next classes. Classes/lectures abandoned due to rector's or dean's hours should be taken up on the new date set. Passing 4 periodical tests (two in course of each semester) on the level at least 66% possible points - TEST/ optionally oral. Each test consists of a practical and theoretical part. The practical part is to identify and name (in English) at least four of the five anatomical details indicated.

Passing the practical exam on the level at least 66% possible points. Passing the theoretical exam (M-CH test

Grade:	Critorio f
	Criteria for courses ending with a grade ³ Not applicable
	Criteria for courses ending with a credit ³
Credit	Passing 4 periodical tests (two in course of each semester) on the level at least 66% possible points/ optionally oral. Each test consists of a practical and theoretical part. The practical part is to identify and name (in English)

³ The verification must cover all education results, which are realize in all form of classes within the course

at least four of the five anatomical details indicated. Bonus for passing the selected practical issues. Knowledge of the material from the abandoned exercises and/or lectures checked orally or on the basis of prepared essay during the next classes.
checked orally or on the basis of prepared deap, Classes/lectures abandoned due to rector's or dean's hours should be taken up on the new date set

	Criteria for exam³
Grade:	
	96-100% - orally full answer on all 4 questions
Very Good (5.0)	86-95% -orally not full answer on 1 question
Good Above (4.5)	76-85% - orally not full answer on 2 questions
Good (4.0)	76-85% - orally not full allswer on 2 questions
Satisfactory Plus (3.5)	71-75% - orally only basic answer on 2 questions
	66-70% - orally basic answer on all 4 questions
Satisfactory (3.0)	00 7070 01007

Department in charge of the course:	Medical University of Wroclaw Department of Human Morphology and Embryology Division of Anatomy
Department address: Telephone:	50-368 Wrocław ul. T. Chałubińskiego 6a tel. 71/ 784-13-51, 784-00-79.
E-Mail:	marek.syrycki@umed.wroc.pl

Person in charge for the o	course:	Marek Syr				
Telephone: tel. /1/ /8			4-13-51			
E-Mail:		marek.syry	cki@umed.wroc	<u>.pl</u>		
List of persons conducti	ng specific	classes:			- f classes	
	Degree/scientific or professional title		Discipline	Performed profession	Form of classes	
Name and surname			disino	Senior lecturer	L, SE, MC	
Marek Syrycki	MD Ph	ıD	medicine	Sellior restar s		
			biology	Tutor	MC	
Joanna Grzelak PhD	elak PhD PhD		Diology	. 3.33		

***		Syllabus developed by
Date of Syllabus development		To A A wash Supuski
		Dr Marek Syrycki
4		Signature of Head(s) of teaching unit(s)
Doan's signature		
Dean's signature/		

DZJEVJA DZJEVJA prof. dr hab Marcin Mikulewicz

Uniwersytet Medycz

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