Name of the course	ΑΝΑΤΟΜΥ			Course		
Type of study				Year of	T	
program	Integrated university study medicine			study	•	
Cycle	integrated a	integrated university study, incucine			study	
ECTS points value:	18	Semester	II.		Number of	210
2010 points vinter		201103101			hours per	(60+62+88)
					semester	()
					(l+s+p)	
Course status:	Mandator	Preconditions:		Cor	nparative	
	v			con	ditions:	
Course attendance:	First vear st	udents of medicine	;	Ног	urs of	According to
	, , , , , , , , , , , , , , , , , , ,			inst	ructions:	the schedule
Holder of the course/	lecturer:	Assist. Prof. Mar	ko Ostoj	ić. M	D. PhD.	
Contact hours/consul	tations:					
<i>E-mail and phone nu</i>	mber:	dr ostojic@gmail.com				
Assistant		Josin Lesko MD : doc dr sc Marko Ostojić MD : dr. sc				
		Peiana Rastović N	MD.: doc	c. dr.	sc. Josip Noval	xović MD.:
		doc. sc. Josip Mis	ković N	1D.; 2	Zdenka Zovko,	dipl. ing.
Contact hours/consul	tations:	Every working day, some staff member will be available.				
E-mail and phone nu	mber		<u> </u>			
The aims of the	The objectiv	ves of this course a	re:			
course:	To learn and	To learn and understand the structure of the human body.				
	Provide means so students may acquire knowledge of the human body's					
	structure through systematic and topographic anatomy, thereby enabling					
	them to understand the normal and pathological morphology of the					
	human body, the relationship between surface forms and deeper					
	structures, a	s well as the interd	ependen	ice of	f these structure	es as the
	framework	of life processes.				
	Thorough u	nderstanding of the	e clinical	rele	vance of certain	n regions and
	the spatial c	rientation within th	ne humai	n boc	ly.	
	Understand	ing the systematic,	function	al an	d topographic	anatomy of all
	regions, as v	regions, as well as the functional anatomy of the locomotor system,				
	cardiovascu	cardiovascular, respiratory, digestive, urinary and reproductive systems,				
	central and	peripheral nervous	system,	inclu	iding the basics	s of the
	organization	n of major motor ar	id senso	ry sy	stems.	1 1
	Systematic	anatomy: organ cha	aracteris	tics, 1	their blood sup	ply, and
	innervation.	According to this	approac	n, the	bodies are gro	ouped
	according to	a common functio	on. The e	empn	asis is on the g	eneral
	function of	the human body	for unde	rstan	ung me struct	ure and
	Topographi	and number the characteristic terms and the characteristic terms are characteristic terms and the characteristic terms are characteristic terms and the characteristic terms are	ractorict	ice of	organs regard	ing to their
	accomodati	on and correlation	with sum	r_{0110}	ling structures	(nosition in the
	hody) All organs are part of a body system and anatomical region					
Learning	General outcomes:					
outcomes(general	- Apply self-study methods through the course in a critical and					
outcomes(general	- Appry sen-study memous unough the course in a critical and					

	self-critical c	juestioning of scient		
competencies):	- Demonstrate possession of personal qualities (teamwork and			
-	personal contribution, interest, active listening and building			
	positive relationships with group members)			
	Specific outcomes:			
	Student applies, explicates (interprets, observes, explains):			
	- The structure of the human body, the basic theoretical settings of			
	the systemic and topographic anatomy of the human body, the			
	shape and structure of the organ in the order in which they belong			
	to the organic system, the holotopsic, skeletotopsic and			
	topographic relations of organs in the body irrespective of which			
	organ system they belong to.			
	- Masters the s	d shows normal hun	ection.	ay Showe
	- Identifies and and explains	the organs of the sy	stem and the region	s of the
	human body	Identifies and show	stem and the region.	timens
	numun oody		is dotains of the spee	intens.
	The outcomes will be evaluated through continuous knowledge checking			
	active learning forms during lectures and seminars, and on the final exam			
	(MCQ test, practical	and oral exam)		
Content of the	Teaching consists of	f everyday lectures,	seminars and practic	cal exercises.
syllabus/performan	After the lecture the	same topic is discus	ssed at the seminar v	vith a slightly
ce plan (in short):	different, practical approach. The seminar is conceived as an interactive			
	form of teaching. Through practical exercises, students apply the taught			
	material.	-	~ •	
Format of	Lectures	Exercises	Seminars	Independent
instruction (mark			T ' 11 1	assignments
				0.1
in dola)	Consultations	Mentorship	Field Work	Other
in dola)	Consultations	Mentorship	Field Work	Other
in dola)	Consultations Remarks:	Mentorship	Field Work	Other
in dola)	Consultations Remarks:	Mentorship		Other
Student	Consultations Remarks: Students must attend	Mentorship	udents are obliged to	Other
Student responsibilities:	Consultations Remarks: Students must attend colloquium for each absence. The collogi	Mentorship d classes on time. St absence, and any ta	udents are obliged to rdiness will be treate	Other
Student responsibilities:	Consultations Remarks: Students must attend colloquium for each absence. The colloq demonstrates that be	Mentorship d classes on time. St absence, and any ta uium is a short oral o	udents are obliged to rdiness will be treate exam in which a stud- be basics of the mate	Other o take a ed as dent prial Passed
Student responsibilities:	Consultations Remarks: Students must attend colloquium for each absence. The colloquidemonstrates that he colloquium is a requi	Mentorship d classes on time. St absence, and any ta uium is a short oral c/she has mastered th uirement for the part	udents are obliged to rdiness will be treato exam in which a stud- ne basics of the mate ial exam. On practic	Other take a ed as dent prial. Passed al exercises.
Student responsibilities:	Consultations Remarks: Students must attend colloquium for each absence. The colloquidemonstrates that he colloquium is a required students are required	Mentorship d classes on time. St absence, and any ta uium is a short oral e/she has mastered th irement for the part d to have a clean and	udents are obliged to rdiness will be treate exam in which a stud- he basics of the mate ial exam. On practic I neatly ironed white	Other Otake a ed as dent erial. Passed al exercises, e coat.
Student responsibilities:	Consultations Remarks: Students must attend colloquium for each absence. The colloquid demonstrates that he colloquium is a required students are required Students with long h	Mentorship d classes on time. St absence, and any ta uium is a short oral of by she has mastered the irement for the part d to have a clean and hair are obliged to the	udents are obliged to rdiness will be treate exam in which a stud- ne basics of the mate ial exam. On practic I neatly ironed white e their hair (pony tai	Other take a ed as dent prial. Passed al exercises, e coat. 1). Nails need
Student responsibilities:	Consultations Remarks: Students must attend colloquium for each absence. The colloquium demonstrates that he colloquium is a required students are required Students with long h to be neatly cut. Students	Mentorship d classes on time. St absence, and any ta uium is a short oral of c/she has mastered th irement for the part d to have a clean and hair are obliged to the dents are obliged to	udents are obliged to rdiness will be treate exam in which a stud- he basics of the mate ial exam. On practic I neatly ironed white e their hair (pony tai prepare the material	Other Otake a ed as dent erial. Passed al exercises, e coat. 1). Nails need for each day
Student responsibilities:	Consultations Remarks: Students must attend colloquium for each absence. The colloqui demonstrates that he colloquium is a required students are required Students with long h to be neatly cut. Stud- in advance.	Mentorship d classes on time. St absence, and any ta uium is a short oral of by she has mastered the irement for the part d to have a clean and hair are obliged to the dents are obliged to	udents are obliged to rdiness will be treate exam in which a stud he basics of the mate ial exam. On practic I neatly ironed white e their hair (pony tai prepare the material	Other O take a ed as dent prial. Passed al exercises, e coat. 1). Nails need for each day
In DOIA) Student responsibilities: Student monitoring	Consultations Remarks: Students must attend colloquium for each absence. The colloquid demonstrates that he colloquium is a required students are required Students with long h to be neatly cut. Stud- in advance. Class attendance	Mentorship d classes on time. St absence, and any ta uium is a short oral of e/she has mastered th the part d to have a clean and hair are obliged to the dents are obliged to Class activities	udents are obliged to rdiness will be treate exam in which a stud- ne basics of the mate ial exam. On practic I neatly ironed white e their hair (pony tai prepare the material Seminars	Other Other Otake a ed as dent erial. Passed al exercises, e coat. 1). Nails need for each day Practical
Student responsibilities: Student monitoring and evaluation	Consultations Remarks: Students must attend colloquium for each absence. The colloq demonstrates that he colloquium is a required students are required Students with long h to be neatly cut. Stud- in advance.	Mentorship d classes on time. St absence, and any ta uium is a short oral of by she has mastered the irement for the part d to have a clean and hair are obliged to the dents are obliged to Class activities	udents are obliged to rdiness will be treate exam in which a stud- ne basics of the mate ial exam. On practic I neatly ironed white their hair (pony tai prepare the material Seminars	Other Otake a ed as dent erial. Passed al exercises, e coat. 1). Nails need for each day Practical knowledge
Student responsibilities: Student monitoring and evaluation (mark in bold)	Consultations Remarks: Students must attend colloquium for each absence. The colloquid demonstrates that he colloquium is a required students are required Students with long h to be neatly cut. Stud- in advance. Class attendance Oral exam	Mentorship d classes on time. St absence, and any ta uium is a short oral of e/she has mastered th irement for the part d to have a clean and hair are obliged to the dents are obliged to Class activities Written exam	udents are obliged to rdiness will be treate exam in which a stud- ne basics of the mate ial exam. On practic I neatly ironed white their hair (pony tai prepare the material Seminars	Other Other Otake a ed as dent erial. Passed al exercises, e coat. I). Nails need for each day Practical knowledge Essay
In DOIA) Student responsibilities: Student monitoring and evaluation (mark in bold)	Consultations Remarks: Students must attend colloquium for each absence. The colloqui demonstrates that he colloquium is a required students are required Students with long h to be neatly cut. Stud- in advance. Class attendance Oral exam	Mentorship d classes on time. St absence, and any ta uium is a short oral of e/she has mastered th tirement for the part d to have a clean and hair are obliged to the dents are obliged to Class activities Written exam	udents are obliged to rdiness will be treate exam in which a stud- ne basics of the mate ial exam. On practic I neatly ironed white their hair (pony tai prepare the material Seminars Continuous assessment of	Other Other o take a ed as dent erial. Passed al exercises, e coat. 1). Nails need for each day Practical knowledge Essay

Detailed review of grading within the European Credit Transfer System			
STUDENT	HOURS	ECTS PORTION	GRADE
OBLIGATIONS	(ESTIMATION)		PORTION
Class attendance and	30	1	0%
engagement			
Practical work	90	3	20%
Colloquium (2) or	240	8	50%
written exam			
Oral exam	180	6	30%

Additional explanations:

The anatomy exam consists of three parts: written, practical, and oral.

During the course, three written partial exams will be held. The partial exam consists of 50 MCQs with five offered answers but only one is a correct answer. Each question bears exactly one point.

Also, during classes, students will write a 'short test' every day. Testing is not graded (only pass/fail is evaluated) and depending on the success the student can get up to five additional points on a partial exam that is summed up with the correct answers.

Based on the total number of points (correct answers from the partial exam + extra points), the partial exam is evaluated as follows:

45-50 points = grade 5 (excellent) 40-44 points = grade 4 (very good) 35-39 points = grade 3 (good) 30-34 points = grade 2 (sufficient)

Once passed the partial exam is valid for the whole academic year and that part of the material will not have to be written again.

For students who pass all three partial exams during the course, the so-called preterm will be held (examination deadline immediately upon completion of classes). Those students then attend the practical exam.

On the practical exam, 25 anatomical structures will be marked on the specimens that were previously used in the practical exercises. All kinds of specimens can be considered – native human, plastinated, plastic models as well as donor cadavers. For the pass in the practical part, the student must properly name and write at least 20 marked structures.

After passing the practical exam, the oral part follows. On an oral exam, the student draws 7 cards with questions that are divided into the same number of categories. The student must orally show basic knowledge from all categories he/she has drawn to make his answer satisfactory.

The final grade is calculated based on the average grade of the written and oral part.

Students who did not pass all three partial exams during course attend regular summer and autumn terms. In order to attend the practical and oral part of the exam, students must first pass a written part that consists of material which was not passed during the partial exams. On regular terms the students write an exam that consists of 50, 100 or maximum 150 questions depending on previously passed partial exams. After completing the written part in a regular term, students partakes in the practical and oral exam in the same manner as the preterm mentioned above.

According to the Rule Book, the final grade is obtained as follows:

 $A = 90-100\% 5 \text{ (excellent)} \\B = 80 \text{ to } 89\% 4 \text{ (very good)} \\C = 70 \text{ to } 79\% 3 \text{ (good)} \\D = 60 \text{ to } 69\% 2 \text{ (sufficient)} \\F = 0 \text{ to } 59\% 1 \text{ (inadequate)}$

Required literature:	Drake, Vogl, Mitchell: Gray's Anatomy for Students. Elsevies, Churchill Livingstone, third edition, 2015 F. Netter: Atlas of Human Anatomy. Elsevier - Health Sciences Division. Any edition.
Optional literature:	K. Moore: Clinically Oriented Anatomy. Lippincott Williams & Wilkins, sixth edition, 2010.J. Sobotta: Atlas of Human Anatomy. Urban & Schwarzenberg. Any edition.
Additional	Student Survey
information on the	Analysis of the quality of teaching by students and teachers
course:	Passage analysis on exams
	Report of the Office for Quality of Teaching
	Out-of-institutional Evaluation (visit of the Quality control teams)

Annexes: class calendar (This is a list of all the classes. The exact schedule may not be in this very order.

Unit number	SUBJECT MATTER AND LITERATURE	
Ι.	Title: Bones and joints of the trunk	
	Short Course description: Class organization, anatomical terminology,	
	introduction to osteology, types of joints.	
	Vertebral column, ribs, sternum.	
	Literature: required and optional	
II.	Title: Bones and joints of the shoulder girdle and upper limb	
	Short decription: Biomechanics and clinical significance of structure	
	of the bones and joints of the shoulder girdle and upper limb.	

	Literature: required and optional
III.	Title: Bones and joints of the upper limb - forearm and hand
	Short description: Biomechanics and clinical significance of bones
	and joints of the forearm and hand. Elbow joint and joints of the hand.
	Literature: required and optional
IV.	Title: Bones and joints of the lower limb - Pelvis and hip joint
	Short description: Upright posture. Biomechanics and clinical
	significance of bones and joints of the pelvis and the lower limb.
	Pelvis and hip joint. Bones and joints of the pelvis and thigh.
	Literature: required and optional
<i>V</i> .	Title: Bones and joints of the lower limb - knee and foot
	Short description: Clinical significance of bones and joints of the leg
	and foot. Knee joint. Bones and joints of the leg and foot.
	Literature: required and optional
VI.	Title: Neurocranium (braincase)
	Short description: Neurocranium - evolutionary characteristics and
	clinical significance. Bones of the braincase, base of the skull,
	apertures and canals of base of the skull.
	Literature: required and optional
VII.	Title:Viscerocranium (facial bones)
	Short description: Viscerocranium-evolutionary characteristics and
	clinical significance.Radiographic anatomy of the skeleton.Facial
	bones, apertures and topographically significant facial features.
	Literature: required and optional
VIII.	Title: Muscles of the head and neck
	Short description: Introduction to myology, shape, parts and insertions
	of the muscles. Facial muscles, mimicry. Muscles of the head and
	neck.
	Literature: required and optional
IX.	Title: Muscles of the thorax and the back
	Short description: Clinical significance of morphology and shape of
	muscles of the thorax and the back.
	Special structure of muscles of the thorax and the back.
	Literature: required and optional
<i>X</i> .	Title: Muscles of the upper limb (2 days)
	Short description: Clinical significance of morphology and shape of
	muscles of the shoulder and the arm. Muscles of the upper limb.
	Demonstrational dissection of muscles of the upper limb.
	Literature: required and optional
XI.	Title:Muscles of the pelvis and thigh.
	Short description: Clinical significance of morphology and shape of
	muscles of pelvics and thigh, upright posture and gait. External and
	internal muscles of the pelvis. Demonstrational dissection of muscles
	of pelvis and thigh.
	Literature: required and optional

XII.	Title: Muscles of the leg and foot
	Short description: Clinical significance of morphology and shape of
	muscles of the leg and foot.
	Demonstrational dissection of muscles of lower leg and foot.
	Literature: required and optional
XIII.	Title: Heart and pulmonary blood flow
	Short description: Heart morphology, pulmonary blood flow, clinical
	significance of structure of arteries and veins. Fetal blood flow and its
	repercussion on the structure and function of the cardiovascular
	system in adults. Heart section.
	Literature: required and optional
XIV.	Title: Circulatory system
	Short description: Circulatory system, aorta, superior and inferior
	vena cava, lymphatic system. Clinical methods of visualization of the
	blood vessels. Demonstration on the preparations - blood vessels of
	the extremeties.
	Literature: required and optional
XV.	Title: The fundamental classification of the nervous system and the
	spinal cord.
	Short description: Organization of the nervous system and clinical
	significance of the spinal cord, vascularization and neural pathways,
	reflex arc. Autonomic and somatic nervous system. Spinal cord and
	spinal nerves.
VI	Literature: required and optional
XVI.	Title: Brain stem and cerebellum
	Short decription: Basic structure of the brain stem and cerebellum.
	Fourth vetricle. Brain stem and cerebellum section.
VUII	Title: Midharin, disconsibility and enonial nerves
AVII.	Short description: Designation and cranial nerves
	short description: Basic structure of the indorain, diencephalon and
	Midbrain and diancenhalon section, cranial nerve output
	Literature: required and optional
VVIII	Title: Telencenhelon
	Short description: basic structure of the telencophelon Broin cortex
	centers, ventricular system. Lympic system. Telencephalon section
	Literature: required and optional
VIV	Title: Blood vessels of the brain and spinal cord, cross sections of the
ΔΙΔ.	brain
	Short description: Blood vessels of the brain meninges of the brain
	dural venous sinuses frontal and horizontal sections of the brain
	Special characteristics of the circulation within the central nervous
	system
	Literature: required and optional
XX	Title: Trigonum caroticum
41410	

	Short description: N. vagus, truncus sympathicus, n. accessorius.
	Topographic anatomy (tr. caroticum, a. carotis communis, v. jugularis
	int.)
	Literature: required and optional
XXI.	Title: Regio colli lateralis
	Short description: A. et v. subclavia, plexus cervicalis, plexus
	brachialis.Topographic anatomy of the lateral neck area.
	Literature: required and optional
XXII.	Title: Orbit (all about eye)
	Short description: Regio palpebralis. Inervation and vascularization of
	the orbit. Orbit and its structures, bulbus oculi.
	Literature: required and optional
XXIII.	Title:Temporal bone (all about ear)
	Short description: Temporal bone and tympanic cavity. Topography of
	the middle and inner ear
	Literature: required and ontional
XXIV	Title: Regio parotidomasseterica and temporomandibular joint
	Short description: Regio parotidomasseterica salivary glands
	temporomandibular joint regio faciei anterior N facialis n
	tympanicus ganglion oticum retromandibular fossa Muscles of
	mastication anatomical backround of mastication infratemporal
	forsa
	Literature: required and optional
VVV	Title: Oral cavity
	Short description: N hypoglossus n glossopheryngous genglion
	submandibulare
	Teeth tongue muscles of the oral cavity n mandibularis hard and
	soft palate
	Literature: required and optional
VVVI	Title: Dearway (throat)
	Short description: Dharvay and the parapharvageal space. Clinical
	significance of the pharyngeal structures
	N yagus n glossonharvngeus isthmus of the pharvny lymphatic
	tissue of the pharway
	Literature: required and optional
VVVII	Title: Nose and the paranasal sinuses
ΔΑΥΠ.	Short description: Nose and the paramagal sinuses
	short description. Nose and the paramasar sinuses, regio facter
	anterior. Cangnon plerygoparatinum, n. maximans, mervation and
	vascularization of the nose and paranasar sinuses. Topography of the
	Literatures required and antional
VVVIII	Title: Tor example and optional
Αλνι.	Short descriptions Designed abdominal cavity (upper part)
	Snort description: Regiones abdominis, Topographic anatomy of the
	esopnagus, stomach and small intestine. Clinical significance of
	structure of the esophagus, stomach and small intestine. Esophagus,
	stomach and small intestine, relations to other abdominal structures.

	Literature: required and optional
XXIX.	Title:Topographic anatomy of the abdominal cavity II (lower part)
	Short description: Topographic anatomy of the large intestine, liver,
	pancreas and spleen.
	Development of the peritoneum. Organ projection on the abdominal
	wall.
	Literature: required and optional
XXX.	Title: Topographic anatomy of the retroperitoneum
	Short description: Kidney, renal fascia, ureter, urinary bladder.
	Inguinal canal. Topograohic anatomy of the retroperitoneum.
	Literature: required and optional
XXXI.	Title: Topographic anatomy of the upper limb I
	Short description: Topographic anatomy of the shoulder and the upper
	arm. Clinical significance of topography of the shoulder and the upper
	arm. Axilla, upper arm and cubital fossa.
	Literature: required and optional
XXXII.	Title: Topographic anatomy of the upper limb II
	Short description: Topographic anatomy of the forearm and hand.
	Clinical significance of topography of the forearm and hand. Forearm
	and hand.
	Literature: required and optional
XXXIII.	Title: Larynx, trachea and bronchi
	Short description: Larynx, trachea, bronchi, (regio pectoralis,
	mamma). Clinical significance of the structures of larynx for
	phonation, crossing of the digestive and respiratory tracts.
	Fossa jugularis, regio colli mediana (laryngea, thyroidea, trachealis).
	Literature: required and optional
XXXIV.	Title: Lungs and mediastinum
	Short description: Topographic anatomy of the lungs and organ
	projections on the chest wall. Clinical significance of the anatomy of
	lungs and topographic relations within the chest cavity. Lungs and
	pleura, mediastinum.
	Literature: required and optional
XXXV.	Title: Topographic anatomy of the lesser male pelvis
	Short description: Topographic anatomy of the lesser male pelvis.
	Clinical significance of the topography of male reproductive organs -
	hernias of the inguinal region. Scrotum, testicle and funiculus
	spermaticus, inguinal canal.
	Literature: required and optional
XXXVI.	Title: Topographic anatomy of the lesser female pelvis
	Short description: Topographic anatomy of the lesser female pelvis.
	Clinical significance of the topography of female sex organs. Position
	of the uterus, ligaments of the uterus, position of the ovaries and the
	pelvic diaphragm.
	Literature: required and optional

XXXVII.	Title: Topographic anatomy of the lower limb I	
	Short description: Topographic anatomy of the gluteal region and	
	thigh. Clinical significance of the topographic relations within the	
	femoral triangle and adductor canal. Gluteal region and thigh.	
	Literature: required and optional	
XXXVIII.	Title: Topographic anatomy of the lower limb II	
	Short description: Topographic anatomy of the leg and foot. Clinical	
	significance of the topographic relations within the popliteal fossa.	
	Leg and foot.	
	Literature: required and optional	