FIŞA DISCIPLINEI- MODUL ENGLEZA

1. Date despre program

1.1.	UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE "CAROL DAVILA"
1.2	FACULTATEA - MEDICINĂ/ DEPARTAMENTUL - Second Department- MORPHOLOGICAL
1.2.	SCIENCES
1.3.	DISCIPLINA - ANATOMY - ENGLISH TEACHING MODULE
1.4.	DOMENIUL DE STUDII - HEALTH
1.5.	CICLUL DE STUDII: GRADUATE STUDIES
1.6.	PROGRAMUL DE STUDII: MEDICINE

2. Date despre disciplină

2.1.	Denumirea disciplinei : ANATOMY			
2.2.				
`	` Titularul activităților de seminar:			
2.4. Anul de studiu 2.5. Semestrul		2.6. Tipul de evaluare	2.7. Regimul disciplinei	
I		I,II	Practical and multiple choice examination	Fundamental Science
II		III,IV	22	Fundamental Science

Second year Anatomy(An II)

3. Timpul total estimat (ore/semestru de activitate didactică)

3.1. Nr ore pe săptămână	6-sem I 4-sem II	From which : 3.2. course	2	3.3. practical session/ lab	4-sem I 2-sem II
3.4. Total ore din planul de învățământ	140	From which : 3.5. course	56	3.5. practical session/ lab	84
Distributia fondului	28 weeks				
de timp	L	1.11. 6			
Studiul după manual, suport de curs, bibliografie și notițe					
Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate și pe teren					
Pregătire seminarii / laboratoare, teme, referate, portofoloo și eseuri					
Tutoriat					
Examinări					
Alte activități					
3.7. Total ore de studiu individual					

3.9. Total ore pe semestru		
3.10. Numărul de credite	Second Year - 12 credits	

4. Precondiții (acolo unde este cazul)

4.1. de curriculum	Not applicable
4.2. de competențe	Not applicable

5. Condiții (acolo unde este cazul)

5.1. de desfășurare a cursului	Not applicable
5.2. de desfășurare a seminarului / laboratorului	Not applicable

6. Competențe specifice acumulate

Competențe profesionale (exprimate prin cunoștințe și abilități)	 Structural and developmental description and recognition of representative human anatomical elements - bones, muscles, vessels, nerves-as guideline for clinical diagnosis Application of techniques methods and acquired anatomical knowledge, in order to establish the diagnosis, to elaborate the scheme of treatment, to identify the most effective prevention measures for diseases Elaboration of a research project for a given study subject, with the investigation and description of anatomical structures
Competențe transversale (de rol, de dezvoltare profesională, personale)	 Identification of objectives wanted to be achieved, of available resources, of their terms of completion, of working steps and time, of their deadline and of the associated risks in various pathologies. Identification of roles and responsibilities in a multidisciplinary team, applying of techniques for effective work and relationships in the team and in relation to the patient. Effective use of information sources, of communication resources but also of the professional aided training resources (internet portals, specialized software applications, databases, on-line courses) both in Romanian and international languages.

7. Obiectivele disciplinei (reieșind din grila competențelor specifice acumulate)

7.1. Obiectivul general	- Familiarization with the university studying by means of anatomy, as one of the first medical subjects that is studied. Progressive knowledge of the anatomical composition, by gradual learning of the human body systems. Observance of professional values and ethics.
7.2. Obiective specifice	Apart from knowledge gaining about each anatomical element, the anatomy aims are to develop the spirit of observation, the capacity of analysis and synthesis, but also to initiate into clinical application of the aquired information. The anatomy is the first medical subject that the students come in contact with and it has an important role in training of a physician/doctor, irrespective of his future medical specialty.

8. Conținuturi

	8. Conținuturi				
8.1. Le	ectures 2 st year, 1 st Semester	Metode de predare	Observații		
1.	Serous cavities of the body- Development, peritoneal	Courses are taught in lecture			
	cavity, omenta, mesenteries, the	halls (amphitheaters) and rooms			
	division of the abdominal cavity, the anatomo-clinical	that are technically equipped			
	division of the abdominal wall,	for this main purpose -laptop,			
	weak points of the abdominal wall.	projector. All lectures are			
		updated, according to the reference books, journals, to			
2.	Development of the digestive system. Evolution of the	books published by members of			
	foregut, evolution of the primary	our discipline, but also to the			
	intestinal loop, derivatives, physiological hernia.	new data online published-			
	Evolution of the hindgut-derivatives.	PowerPoint presentations,			
3.	Cloaca and its division. Development of the liver and	schemes, drawings. Our			
	congenital abnormalities.	discipline has its own library to			
4.	Development of the pancreas, congenital	obtain medical information for			
	abnormalities.	useful university studying by			
5.	Portal vein, visceral and parietal anatomoses between	means of anatomy.			
	the portal and systemic circulation.				
6.	Development of the urogenital system. Evolution of				
	the pronephros, mesonephros and				
	metanephros. Development of the ureter. Derivatives				
	of the cloaca, development of the				
	kidney. Congenital abnormalities of the urinary				
	system.				
7.	Development of the genital system. Indifferent stage				
	of the gonad. Development of the				
	testis and of the male genital ducts. Development of				
	the male external genitalia.				
	Congenital abnormalities.				
8.	Development of the female genital system.				
	Development of the ovary, of the uterus, of the				
	uterine tube, of the vagina. Development of the female				
	external genitalia. Congenital				
	abnormalities.				
9.	Retroperitoneal space. Topography of the				
	retroperitoneal space. Renal fascia. Major				
	retroperitoneal vessels. Thoracic duct.				
10	. Retroperitoneal autonomic plexuses. Lumbar part of				
	the sympathetic trunk, pelvissubperitoneal				
	space.				
11	. Perineum in male-topography, structure, fasciae				
12	. Perineum in female-topography, structure, fasciae				
13	. Perineal spaces, ischiorectal fossa, superficial perineal				
	space, deep perineal space.				
	pathways)				
	14. Radiology and cross sections.				
	ectures 2 st year, 2 nd Semester	Metode de predare	Observații		
1.	1	Courses are taught in lecture			
2.		halls (amphitheaters) and rooms that are technically equipped			
	temperature, touch, pressure and vibration	mat are technically equipped			

pathways) for this main purpose -laptop, projector. All lectures are 3. Proprioceptive pathways updated, according to the 4. Visual and gustatory pathways. reference books, journals, to 5. Auditory and vestibular pathways. books published by members of 6. Reticular formation. our discipline, but also to the 7. Structure of the cerebellum and its connections. new data online published-8. Thalamus: nuclei, connections. PowerPoint presentations, 9. Hypothalamus: nuclei, connections schemes, drawings. Our 10. Limbic system and its connections. discipline has its own library to 11. Structure of the cerebral cortex obtain medical information for 12. Pyramidal system useful university studying by 13. Extrapyramidal system means of anatomy. 14. Blood vessels of the encephalon and vascular syndromes.

Bibliografie

Gray's Anatomy – for students, by Richard Drake, PhD and all, Elsevier Health Gray's Anatomy – pentru studenți, Coordonator F.Filipoiu, Editura Elsevier – Prior, București Atlas de anatomie – nomenclatura latină – Gilroy, Coordonator F.Filipoiu, Editura Prior, București Aparatul digestiv subdiafragmatic și splina – sub redacția Florin Filipoiu, Editura Universitară

"Carol Davila" București
Anatomia omului - Aparatul urinar, spatiul retroperitoneal, F. Filipoiu, C. Cristescu, D. Mihalea, Editura Universitara "Carol Davila", București

Anatomie – Pereții trunchiului – Lucrări practice sub redacția G. Lupu, Editura Universitară "Carol Davila" București

Anatomia omului – Cap și Gât – Lucrări practice sub redacția G. Lupu, Editura Universitară "Carol Davila" București

Anatomia omului – Aparatul digestiv – Lucrări practice sub redacția G.Lupu, Editura Universitară "Carol Davila" București

Anatomie – Membrele sub redacția G. Lupu, Editura Universitară "Carol Davila" București Editura Universitară "Carol Davila" București sub redacția Al .T. Ispas Anatomia omului – Aparatul Genital

Anatomia omului – Sistemul Nervos Central – Lucrări practice, sub redacția Al.T.Ispas, Editura Universitară "Carol Davila" București

Sistemul nervos și organele de simț - Atlas color - Werner Kahle - Coordonator Prof. Al.T. Ispas, Editura Callisto București

Anatomia funcțională a toracelui - Cezar Th. Niculescu, Bogdan Voiculescu, Romică Cergan, Mihaela Banu, Editura Universitară "Carol Davila" București

Embriologie – Ghid de lucrări practice de microscopie An I – sub redacția Al. T. Ispas, Editura Universitară "Carol Davila" Bucuresti

Embriologie – Ghid de lucrări practice de microscopie An II – sub redacția Al. T. Ispas, Editura Universitară "Carol Davila" București

8.3. Seminar / laborator	Metode de predare	Observații
8.3.1. Lectures 2 st year, 1 st Semester	Metode de predare	Observații
-	The main purposes of teaching methods	,
1. Abdominal wall: structure, rectus sheath, inguinal canal. Limits of the abdomen anatomo-topographic regions of the abdomen. Surface anatomy of the abdominal wall: muscular relief, grooves, projection of	are -recognition, but also structural and developmental description of the studied anatomical structures - understanding and development of skills in clinical using of acquired	

- the umbilicus, projection of the superficial and deep inguinal rings, projection of the inferior epigastric vessels, projection of the weak point of the abdominal wall.
- 2. Diaphragm: structure, apertures, blood supply, nerve supply. Surface projection of the diaphragm and its apertures.
- 3. Peritoneum: subdivision. Peritoneal foldsmesenteries, ligaments, omenta. Structure, vessels, nerves. Peritoneal cavity: subdivisions; supracolic and infracolic spaces; paracolic gutters, mesenterico-colic spaces. Vertical and horizontal disposal of the peritoneum. Abdominal esophagus: structure, relations, blood vessels, lymph vessels, nerve supply.
- 4. Stomach: configuration, structure, relations, blood vessels, lymph vessels, nerve supply. Gastric ligaments. Surface anatomy: surface projection of the cardial orifice and of the pylorus, gastric field- gastric projection at the level of the epigastric region,
 - projection of the gastric fundus- space of Traube. Radiological anatomy.
- Omental bursa: study of the omental bursa and its recesses; foramen epiploicum, foramen bursae omentale.
 Path of access into the omental bursa.
 Celiac region. Dissection of the celiac trunk and its branches, celiac plexus.
- 6. Duodenum: configuration, structure, relations, blood vessels, lymph vessels, nerve supply. Duodenal recesses. Surface anatomy: surface projection of D1, D2, D3 and of the duodenojejunal flexure on the abdominal wall. Radiological anatomy.
- 7. Pancreas: configuration, structure, relations, blood vessels, lymph vessels, nerve supply. Surface anatomy: surface projection of the pancreas.
- 8. Liver: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Ligaments of the liver. Hepatic segmentation. Surface anatomy: surface projection of the liver hepatic triangle of Labbe.
- 9. Biliary ducts: configuration, structure, relations, blood vessels, lymph vessels, nerve

anatomical knowledge - development of logical, causal thinking in medical studying... The teaching methods for anatomical study: -dissections of human bodies, presentations on anatomical dissected parts, anatomical preparations, bones, sections; -microscopic examinations of histological sections-human embryos and fetuses- at practical sessions of embryology; radiological anatomy with examination of radiographies; documentation in our discipline museum, study on cross-sections of human body, study on normal x-rays, CT and MRI

- supply. Surface anatomy: projection of the biliary ducts, cystic point, Chauffard's region. Dissection of the hepatic pedicle. Radiological anatomy.
- 10. Spleen: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Ligaments of the spleen. Segments of the spleen. Surface anatomy: the projection of the spleen.
- 11. Jejunum and ileum: configuration, structure, relations, blood supply, lymph vessels, nerve supply.
 Mesentery: configuration, relations.
 Dissection of the superior mesenteric artery and its branches; dissection of the superior mesenteric vein. Surface anatomy: surface projection of the jejunoileal coils, of the ileocecal angle and of the mesentery.
 Radiological anatomy.
- 12. Caecum and vermiform appendix:
 configuration, structure, relations, blood
 supply,
 lymph vessels, nerve supply. Caecal recesses.
 Surface anatomy: the surface projection
 of the caecum and of the appendix, painful
 points of the appendix. Radiological
 anatomy.
- 13. Colon: configuration, parts, relations-ascending colon, right colic flexure, transverse colon, left colic flexure, descending colon, sigmoid colon: structure, blood supply, lymph vessels, nerve supply. Dissection of the inferior mesenteric artery and its branches. Transverse mesocolon. Surface anatomy: surface projection of the colic segments and flexures. Radiological anatomy.
- 14. Rectum: structure, relations, blood vessels, lymph vessels, nerve supply. Radiological anatomy.
- 15. Retroperitoneal space: delimitation, content, subdivisions. Kidney: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Renal segmentation. Dissection of the renal pedicle. Surface anatomy: surface projection of the kidney and of the renal pelvis. Radiological anatomy. Suprarenal glands: structure, relations, blood

- supply, lymph vessels, nerve supply.
- 16. Ureter: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Surface anatomy: surface projection of the ureter, painful points of the ureter. Radiological anatomy.
- 17. Urinary bladder: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Radiological anatomy. Male and female urethra: structure, relations, blood supply, lymph vessels, nerve supply.
- 18. Abdominal aorta: course, relations, branches. Dissection.

External iliac artery: course, relations, branches.

Internal iliac artery: course, relations, branches. Dissection.

Autonomic plexuses in the abdomen and pelvis: superior mesenteric plexus, inferior mesenteric plexus, hypogastric plexuses. Inferior vena cava: origin, course, relations.

- 19. EXAMINATION-infracolic space and retroperitoneal space
- 20. Ovary: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Ligaments of the ovary. Ovarian fossa. Uterine tube: configuration, structure, relations, blood supply, lymph vessels, nerve supply.
- 21. Uterus: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Means of support and suspension. Surface anatomy: the surface projection of the pregnant uterus onto the abdominal wall. External and internal pelvimetry.
- 22. Vagina: structure, relations, blood supply, lymph vessels, nerve supply.

 External genitalia in female: configuration, structure, relations, blood supply, nerve supply.
- 23. Testis: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Dissection of the scrotum. Spermatic ducts: configuration, structure, relations, blood supply, lymph vessels, nerve supply. Spermatic cord: structure, dissection. Seminal vesicle: structure, relations, blood supply, lymph vessels, nerve supply.
- 24. Prostate: structure, relations, blood supply, lymph vessels, nerve supply.

- 25. Penis: configuration, structure, blood supply, nerve supply.
- 26. Pelvic diaphragm: muscles, fasciae, vessels, nerves, dissection.Urogenital diaphragm: muscles, fasciae, vessels, nerves.
- 27. Anterior perineum in male
 Anterior perineum in female
 Posterior perineum. Pelvis-subperitoneal
 space: delimitation, subdivision, content.
 Perineal spaces- superficial perineal space,
 deep perineal space, ischiorectal fossa.
- 28. EXAMINATION- genital system

8.3.2. Lectures 2st year, 2nd Semester

- 1. External aspect of the spinal cord. Spinal nerve (structure). Reflex arch. Spinal meninges.
- 2. Gray matter of the spinal cord. White matter (ascending, descending and intersegmental tracts)
- 3. External aspect of the brainstem. Fourth ventricle: walls, communications.
- Nuclei of the cranial nerves (equivalent nuclei of the brainstem)
 Proper nuclei of the brainstem
- 5. Transverse section through the medulla oblongata, pons and midbrain
- 6. Cerebellum: lobes, structure.
 Connections: afferent and efferent fibres
- 7. Diencephalon- external aspect. Third ventricle: walls, recesses, and communications.
- 8. Surfaces of the cerebrum: gyri and fissures. Cerebral commissures. Lateral ventricles.
- 9. Basal ganglia. Connections: afferent and efferent fibres. Internal capsule.
- 10. Sagital, horizontal and frontal sections through the cerebral hemispheres.
- 11. Cerebral meninges. Cerebrospinal fluid and its circulation.
- 12. Blood supply of the central nervous system.
- 13. Eyeball and accessory visual apparatus. Visual receptors.
- **14.** Ear (external, middle, internal ear). Auditory and vestibular receptors

Metode de predare

The main purposes of teaching methods are

Observații

- -recognition, but also structural and developmental description of the studied anatomical structures
- understanding and development of skills in clinical using of acquired anatomical knowledge
- development of logical, causal thinking in medical studying...

 The teaching methods for anatomical study: -dissections of human bodies, presentations on anatomical dissected parts, anatomical preparations, bones, sections; -microscopic examinations of histological sections-human embryos and fetuses- at practical sessions of embryology; radiological anatomy with examination of radiographies; -documentation in our discipline museum, study on cross-sections of human body, study on normal x-rays, CT and MRI

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9. Coroborarea conținuturilor disciplinei cu așteptările reprezentanților comunității epistemice, asociațiilor profesionale și angajatori reprezentativi din domeniul aferent programului

Anatomy professional training of the first- and second-year students aims:

- -recognition and identification of anatomical structures related to the need of effective communication with the patient and academic environment
- -preparing the future physician/doctor for a proper and good professional communication with the future employer

10.Evaluarea

Tip de activitate	10.1. Criterii de evaluare	10.2. Metode de evaluare	10.3. Pondere din nota finală
	Attendance at practical sessions/labs, at courses/lectures, at dissections on human bodies, presentations on anatomical dissected parts, on preparations, bones, sections and health issues, control tests.	Sem I The student receives a 30 MCQ test divided in 3 groups: I-lectures, II- abdominal organs, III- urinary and genital system. Each group must be passed with a minimum of 5 points each.	
		Sem II The student receives a 30 MCQ test divided in 3	

	groups: I-Spinal cord and brainstem, II-cerebellum,diencephalon and limbic system,III-encephalon Each group must be passed with a minimum of 5 points each.		
10.1. Curs	MCQ Examination		
10.2. Seminar / laborator	PRACTICAL EXAMINATION		
-	ORAL EXAMINATION		
Standard minim de performanță			
Pass mark is 5. Failure of the practical, the student being marked with grade 4.			

Data completării:
11.09.2017

Professor FLORIN FILIPOIU PhD

Data	avizării	în	Consiliul
Depar	tamentulu	ıi:	
12.09.	2017		
			• • • • • • • • •

Semnătura directorului de departament