

# University of Split School of Medicine

## DEPARTMENT OF ANATOMY

Human anatomy studies normal structure of the human body. The aims include covering the description of macroscopic characteristics of the principle body organs (including their supply). In a systemic approach organ are grouped according to their common function. The focus of teaching is on the basic and common anatomical principles important for understanding the structure and the function of the human body. In addition to the systemic approach, the topographic anatomy is also represented and includes studying of characteristics of organs and organ systems in relation to their position in the body and their relations to the nearby structures. In topographic (regional) approach the organs are grouped according to their location and position in the body.

In practice all organs belong to an anatomical region and are part of a body system. Hence, the diagnosis in the clinical practice includes both systemic and topographic approaches.

### **STAFF MEMBERS INVOLVED IN ANATOMY IN ENGLISH**

Professor Ivica Grković, head of the department,  
Professor Katarina Vukojević, course coordinator,  
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#### **Technician**

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### **ORGANISATION OF THE SUBJECT**

Lectures	32 units x 2 hours = 64
Seminars	39 units x 2 hours = 78
Practical	39 units x 2 hours = 78
TOGETHER	220

## LITERATURE

- **Principle learning medium**  
**Anatomedia online** (see [www.anatomedia.com](http://www.anatomedia.com))
- **Gray's Anatomy for Students. Editors: Richard L. Drake, A. Wayne Vogl, Adam W.M. Mitchell, 5th Edition, Elsevier**

### **2. Atlas**

Netter FH. Atlas of human anatomy. Basel: Novartis, 1998.

Sobotta Atlas of Human anatomy. Munchen. Urban&Fischer, 2010.

## STUDENT'S RESPONSIBILITIES

All components of teaching are compulsory! For practical classes students should have white coats and a pair of gloves. Scalpels and forceps will be provided if/when necessary.

For seminars and practical classes student should be prepared and level of knowledge as well as activity and participation will be assessed and evaluated on each and every seminar/practical.

## EXAMS

**Final exam** consists of three components: written (40% of the final mark), practical (20% of the final mark) and oral (20% of the final mark). Remaining 20% of the **final mark** is calculated from scores gained on continuous assessment (quizzes).

Written component is split in two parts (so called 'partial exams'). When both partial exams are passed, they count as passed written component of the exam.

In order to gain entry to partial exams, students should not have any negative marks in practical classes. Before every partial exam, students will have a chance to correct eventual negative mark from practical classes.

### First partial exam (A-1)

70 questions (70 minutes)

*Pass:* 60% of all questions should be answered correctly = 42 questions minimum for passing.

### Second partial exam (A-2)

130 questions (130 minutes)

*Pass:* 60% of all questions should be answered correctly = 78 questions minimum for passing.

Also, A-2 is subdivided in 3 sections and each should be passed (50%) separately.

- head & neck - 50 questions (25 correct answers is a passing minimum),
- thorax, upper limb & back - 30 questions (15 correct answers is a passing minimum),
- abdomen, pelvis & upper limb - 50 questions (25 correct answers is a passing minimum).

Mark/percentage for the written part of the exam is derived from A-1 and A-2. When both written components are passed (either during the teaching block or within official examination period), the student can sit practical and oral components.

### Practical exam

Consists of 25 marked anatomical structures which a student should name correctly. Exam is organized as a spot exam (recognition and naming of indicated structures on anatomical specimens/models/photographs) . 70 % is a minimum passing level.

### Oral exam

Consists of 7 questions covering following parts:

1. General anatomy principles
2. Musculoskeletal system
3. Head & neck region
4. Thorax, abdomen & pelvis question
5. Limbs and back
6. Visceral organ system
7. Clinical question

# TEACHING UNITS

## Systemic anatomy

### 1. Bones and joints of the trunk

- Lect. Introduction to anatomy, general osteology and arthrology
- Sem. Vertebral column, ribs, sternum and thoracic cage
- Prac. Bones and joints of axial skeleton

### 2. Bones and joints of the upper limb – pectoral region and shoulder girdle

- S. Bones of shoulder girdle and shoulder joints
- P. Bones and joints of the shoulder region

### 3. Radiological anatomy

- L. Principles of radiological anatomy
- S. Radiological anatomy of axial skeleton and shoulder regions
- P. Radiological vs. topographic anatomy

### 4. Bones and joints of the upper limb – forearm and hand

- S. Bones and joints of the forearm and hand
- P. Bones and joints of the forearm and hand

### 5. Bones and joints of the lower limb – pelvic girdle, hip & thigh

- S. Bones and joints of the hip and thigh
- P. Bones and joints of the hip and thigh

### 6. Bones and joints of the lower limb – leg and foot

- S. Bones and joints of the leg and foot
- P. Bones and joints of the leg and foot

### 7. Neurocranium

- L. Cranial bones and aspects of cranium
- S. Neurocranial bones and aspects of neurocranium
- P. Neurocranium

### 8. Viscerocranium

- S. Viscerocranial bones and aspects of viscerocranium
- P. Viscerocranium

### 9. Principles of organization of the central nervous system

- L. Organization of the central nervous system
- S. Cerebrum
- P. Sectional anatomy of the central nervous system

### 10. Spinal cord and spinal nerves

- L. Spinal cord and spinal nerves
- S. Somatic and autonomic nervous systems
- P. Spinal nerves and somatic plexuses

### 11. Basis of the brain and cranial nerves

- L. Brainstem and cranial nerves
- S. Cranial nerves
- P. Cranial nerves

### 12. Cerebellum, diencephalon and central pathways in the brain

- L. Diencephalon and cerebellum
- S. Central pathways in the brain
- P. Axial and horizontal sections of the brain

### 13. Ventricular system and blood vessels of the brain

- L. Blood vessels of the brain and CSF
- S. Organization of dural layers and dural venous sinuses
- P. Supply systems of the CNS

### 14. Principles of cardio-vascular system and heart

- L. Principles of cardiovascular system and heart
- S. Heart
- P. Sections of heart

### 15. Principles of visceral systems

- L. Principles of the organization of visceral organs
- S. Solid and hollow organs
- P. Review of practical material

## *PARCIAL EXAM I (A-1)*

## **Topographic (regional) anatomy**

### **16. Face regions**

- L. Face and scalp
- S. Face and scalp
- P. Anatomical section and demonstration

### **17. Temporal regions and ear**

- L. Temporal regions and ear
- S. Ear
- P. Anatomical section and demonstration

### **18. Orbital regions and eye**

- L. Orbital regions and eye
- S. Eye
- P. Anatomical section and demonstration

### **19. Nasal region and cavity**

- L. Nasal region and cavity
- S. Nasal cavity
- P. Anatomical section and demonstration

### **20. Oral cavity**

- L. Oral cavity
- S. Oral cavity
- P. Anatomical section and demonstration

### **21. Carotid triangle**

- L. Carotid triangle
- S. Pharynx
- P. Anatomical section and demonstration

### **22. Neck 1**

- L. Anterior neck regions
- S. Larynx
- P. Anatomical section and demonstration

### **23. Neck 2**

- L. Lateral neck regions
- S. Lateral neck regions
- P. Anatomical section and demonstration

### **24. Regions of head and neck (revision of nervous and vascular supply)**

- L. Revision of cranial nerves
- S. Revision of vascular supply of head and neck
- P. Regions of head and neck

### **25. Pectoral region**

- L. Pectoral and axillary regions
- S. Pectoral and axillary regions
- P. Anatomical section and demonstration

### **26. Arm and cubital fossa**

- L. Arm and anterior aspect of the forearm
- S. Arm and anterior aspect of the forearm
- P. Anatomical section and demonstration

### **27. Forearm and hand**

- L. Forearm and hand
- S. Forearm and hand
- P. Anatomical section and demonstration

### **28. Thoracic cavity**

- L. Lungs, bronchi & pleura
- S. Mediastinum
- P. Anatomical section and demonstration

### **29. Thoracic walls**

- S. Thoracic walls and respiration
- P. Anatomical section and demonstration

### **30. Back**

- L. Topographic anatomy of back
- S. Back muscles
- P. Anatomical section and demonstration

### **31. Abdominal wall and inguinal channel**

- L. Anterior abdominal wall and inguinal canal
- S. Anterior abdominal wall and inguinal canal
- P. Anatomical section and demonstration

**32. Peritoneum and mesentery**

- L. Development of peritoneal cavity
- S. Supra- and infra-colic spaces of peritoneal cavity
- P. Anatomical section and demonstration

**33. Abdominal cavity**

- L. Topographic anatomy of alimentary system
- S. Abdominal viscera
- P. Anatomical section and demonstration

**34. Retroperitoneum**

- L. Topographic anatomy of retroperitoneal organs
- S. Kidney and urinary system
- P. Anatomical section and demonstration

**35. Female pelvis**

- L. Topographic anatomy common pelvic and internal female reproduction organs
- S. Topographic anatomy of female pelvis
- P. Anatomical section and demonstration

**36. Male pelvis**

- L. Topographic anatomy of internal male reproduction organs and anatomy of perineum
- S. Topographic anatomy of male pelvis
- P. Anatomical section and demonstration

**37. Gluteal and thigh regions**

- L. Topographic anatomy of pelvic girdle and thigh
- S. Muscles of gluteal region and thigh
- P. Anatomical section and demonstration

**38. Leg and foot**

- L. Topographic anatomy of leg and foot
- S. Muscles of leg and foot
- P. Anatomical section and demonstration

**39. Regions of the trunk**

- S. Nervous and vascular supply of thorax, abdomen and pelvis
- P. Anatomy of clinical procedures

***PARTIAL EXAM 2 (A-2)***