**Course Title: Anatomy with embryology and basic genetics**

**Course Director: Prof. dr hab. Jerzy Walocha**

**Coordinator /contact:** Dr n.med. Małgorzata Mazur\ malg.mazur@uj.edu.pl

**Responsible person/contact:** Dr n.med. Małgorzata Mazur\ malg.mazur@uj.edu.pl

**Address: Chair of Anatomy, Kopernika 12 street**

**Year: 1-DDS**

**Total number of hours: 214**

Lectures: 65

Seminars:

Labs/Practicals: 149

Others (e.g. recitation): Obligatory readings

Exams: 5

**Conduct/Dress Code: White lab coat and one-time gloves**

**Student’s Evaluation:**

-credit requirements:

Several mid-semestral tests will take place following the syllabus

The tests will consist of two parts :

**a).** the laboratory part (identification of parts of organs) –**20 questions** (you can receive maximally 2 points for each well recognized specimen). There is 30 seconds per each specimen for its recognition during a mid-semestral test or 45 seconds during the final exam. IN PERSON

Passing the laboratory part **is NOT a prerequisite** for participation in the second part of the mid-semestral test.

The list of specimens placed in the end of syllabus is a **supplementary** list only (it is only a help for the Students), so both during the mid-semestral and final practical exams, some extra specimens (out of the list) can be used.

**b).** the theoretical part (TEST : multiple choice, matching, etc.) - **60 questions** (1 point for each correct answer). The test lasts 90 minutes. Question will be based on lectures , labs and a few from obligatory readings. Each student will receive confidential code number. ONLINE

Results of the test are available on the web-page of the Chair of Anatomy (www.katedra–anatomii.cm-uj.krakow.pl)→ STUDENCI → dentistry

**It is not possible to postpone the mid-semestral test or to take it earlier.**

Only Students who have received at least **50%** from all mid-semestral tests ( average, including both theoretical and practical)are allowed to take the final anatomy exam (both practical exam and the test.

A Student can be exempted from the final exam if the results of all mid-semestral tests (**including both practical and theoretical tests**) exceed **90%.**

A Student is exempted from the final practical exam if results of **all practical mid-semestral tests** exceed **80%.**

**To pass the final exam one should receive at least 50% on practical final and 60 % on theoretical final, separately.**

The final grade consists of : the value of points received during final practical + value of points received during final test and points received during the mid-semestral tests above 60% points, (for each 10 points above 60%, a student gets 1 point extra) Student who does NOT receive credit must take credit test in September. The material of the test covers the whole material. After passing the test student is allowed to take both practical and theoretical exams

-attendance requirements: labs are **obligatory,** lectures not

All excused absences on the labs must be passed. Student who have been absent must answer 10 practical questions regarding material discussed on the following lab.

-type of the final exam: The final exam, held in June, is **the ultimate basis for the completion of the course. Evaluation of the anatomy & embryology course is based on the results of the final exam, however we consider also the results of the mid-semestral tests.**

The final exam, covering the whole material of the course consists of two parts :

(a) **The laboratory part** : identification of specific structures shown on cadavers or radiograms (head and neck); their parts; separate organs or bones. (30 questions – 2 : bones; 6 : skull; 2 : upper & lower limb; 2 : thorax; 2 : abdomen & pelvis; 12 : head & neck; 4 – central nervous system). IN PERSON

**Passing the laboratory part is NOT a prerequisite for participation in the second part of the final exam .**

1. **The theoretical part** (multiple choice test, matching,

etc.) questions may also include problems based on histology.

The test consists of 100 questions which cover the whole material of the course and include also embryology problems (80% of questions is based on the material on Head, neck, skull and central nervous system). IN PERSON

-retake information: **The make-up exam** has the same form but the test consists of 60 questions (multiple choice and matching)( September 2023)

**Teachers: Prof.dr hab. Jerzy Walocha, Dr Małgorzata Mazur, Dr Marcin Lipski**

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|  | Day | Time | Type  of classes | N0 of hours | Group | Topic | teacher | Place |
| **Week 1**  October 3-7 |  |  |  |  |  |  |  |  |
| Mo | 9.45-11.15 | lab | 2 | I,II | Vertebral column –General characteristics of a vertebra. Cervical, thoracic, lumbar vertebrae. Sacrum, coccyx. Intervertebral disc. Joints of vertebral column. Atlanto-occipital joints. Atlanto-axial joints. Curves of vertebral column. | Prof. Jerzy Walocha, MD, Ph.D/ Dr Małgorzata Mazur, MD,PhD | Dissection room 1,3 |
| Mo | 12.15-13.45 | lec | 2 | Whole class | Basic Anatomy. Descriptive Anatomical Terms : Terms Related to Position and Movement. Connective Tissue : general structure of the bone, Biological & mechanical properties of bones. Classification of bones. Joints : fibrous, cartilaginous & synovial joints. | Prof. Jerzy Walocha, MD, Ph.D | E-learning |
|  | Wed | 10-11.30 | lab | 2 | I, II | Ribs. Sternum. The thoracic cage. Bones of the shoulder girdle: scapula, clavicle. Acromioclavicular, sternoclavicular joint. | Prof. Jerzy Walocha, MD, Ph.D\ Dr Małgorzata Mazur, MD,PhD | Dissection room 1,3 |
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| **week 2**  October 10-14 |  |  |  |  |  |  |  |  |
| Mo  Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Humerus. Shoulder joint. Radius. Ulna. Bones of the hand. Elbow joint. Wrist joint. The carpal tunnel. The hand as a functional unit.  Vascular system: Heart. Blood vessels. Lymphatic system. Muscles and Structures Associated with Muscles. | Prof. Jerzy Walocha, MD, Ph.D/ Dr Małgorzata Mazur, MD,PhD  Prof. Jerzy Walocha, MD, Ph.D/ | Room 1,3  E-learning |
| Wed | 10-11.30  11.30 -13.00 | Lab  lab | 2  2 | I,II  Whole class | The bony pelvis. Hip bone. Sacrum. Coccyx. Sacroiliac joints. Symphysis pubis. Greater & lesser sciatic foramina. Inquinal ligament. Sex differences of the pelvis. Femur. Hip joint. Acetabulum. Tibia. Fibula. Patella. Knee joint. (intra- & extracapsular ligaments) Menisci. Bones of the foot. Ankle  joint.  Practical review | As above  Dr Małgorzata Mazur | Room 1,3  Room1,3 |
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| **week 3**  October 17-21 |  |  |  |  |  |  |  |  |
| Mo  Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Bones of the Neurocranium. Frontal Bone. Occipital Bone.Sphenoid bone.  Divisions of the skull. Development of the skull. | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10.00 -11.30  11.30-13.00 | Lab  lab | 2  2 | I,II  Whole class | Ethmoid Bone. Parietal Bone. Temporal Bone. Review of the specimens.  Practical review | As above  Dr Małgorzata Mazur | Room 1,3  Room1, 3 |
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| **week 4**  October 24-28 |  |  |  |  |  |  |  |  |
| Mo  Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Bones of the Visceral Cranium. Mandible. Hyoid Bone. Maxilla. Palatine Bone. Inferior Nasal Concha. Lacrimal Bone. Vomer. Zygomatic Bone. Zygomatic and mandible fractures.  The Ear: External Ear. Middle Ear (Tympanic Cavity). Inner Ear (Osseous Labyrinth). | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10.00 -11.30  11.30 -13.00 | Lab  lab | 2  2 | I,II  Whole class | Orbital Cavity. Nasal Cavity. Oral Cavity. Limitation and and communication.  Practical review | As above  Dr Małgorzata Mazur | Room 1,3  Room 1,3 |
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| **Week 5**  November the 2nd |  |  |  |  |  |  |  |  |
| Wed | 10-11.30 | Lab | 2 | I,II | Anterior middle and posterior cranial fossae practically. | As above | Room 1,3 |
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| **week 6**  November 7-11 |  |  |  |  |  |  |  |  |
| Mo  Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Temporal, infratemporal, retromandibular and pterygopalatine fossae.- practically  Anterior, middle and posterior cranial fossae-limitation communication  Openings in the skull- contents. Pterygopalatine fossa- limitation, communication. | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| WED | 10-11.30 | lab | 2 | I,II | Practical review | As above | Room 1,3 |
|  | 11.30-13.00 | lab | 2 | Whole class | Practical review | Dr M.Mazur | Room 1,3 |

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| **week 7** November 14-18 | Mo | 9.45-11.15 | lab | 2 | I,II | Practical review | As above | Room 1,3 |
| Mo | 12.15-13.45 | lec | 2 | Whole class | **Test 1 – osteology and skull( 60 Questions)** | Prof. Jerzy Walocha | online |
| Wed | 10.00-11.30 | Lab | 2 | I,II | **Practical exam on osteology and skull-20 details.** | As above | Room 1-5 |
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| **week 8**  November 21-25 |  |  |  |  |  |  |  |  |
| Mo  Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Spinal cord, brainstem, medulla oblongata, midbrain.  Introduction into the anatomy of the Nervous system.Divisions of the nervous system. Neurons.Central, peripheral and autonomic nervous system. | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10.00-11.30  11.30 -13.00 | Lab  lab | 2  2 | I,II  Whole class | Exit of the cranial nerves from brain. Brainstem and its relation with the cerebellum, Cerebellum. Interbrain. 3rd and 4th ventricles.  Practical review | As above  Dr Małgorzata Mazur | Room 1,3  Room1, 3 |
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| **week 9**  November 28-December 2 |  |  |  |  |  |  |  |  |
| Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Telencephalon( hemisphere). Brodman areas. Blood supply of the brain  Motor neuronal tracts | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10:00-11:30  11.30 -13.00 | Lab  lab | 2  2 | I,II  Whole class | Practical review  Practical review | As above  Dr Małgorzata Mazur | Room 1,3  Room1, 3 |
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| **Week 10** December 5-9 | Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Practical review.  Sensory neuronal tracts | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
|  | Wed | 10.00-11.30  11.30 -13.00 | Lab  lab | 2  2 | I,II  Whole class | Practical review  Practical review | As above  Dr Małgorzata Mazur | Room 1,3  Room1, 3 |
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| **week 11**  December  12-16 |  |  |  |  |  |  |  |  |
| Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Practical review  **Test 2 on central nervous system- 60 questions** | As above  Prof. Jerzy Walocha | Room 1,3  online |
| Wed | 10.00-11.30 | lab | 2 | I,II | **Practical exam on CNS- 20 questions.** | As above | Room 1-5 |
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**December 19 th- January 2nd CHRISTMAS BREAK**

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| **week 12**  January 2-5 |  |  |  |  |  |  |  |  |
| Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Muscles of the neck and nuchal region. Cervical plexus  Head and neck development | As above  Dr Małgorzata Mazur | Room 1,3  E-learning |
| Wed | 10-11.30 | lab | 2 | I,II | Surface anatomy of the neck. Triangles of the neck. Thyroid gland. Parathyroid glands. | As above | Room 1,3 |
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| **week 13**  January 9-13 |  |  |  |  |  |  |  |  |
| Mon | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I, II  Whole class | Vagus nerve, accessory nerve, hypoglossal nerve and sympathetic trunk( cervical part)  The Orbit & its walls. Structure of the Eyeball. Nerve & blood supply of the eyeball. Ciliary ganglion. The accessory organs of the eyeball (muscles, eyelids, lacrimal apparatus). Optic nerve. Oculomotor nerve. Trochlear nerve. Abducent nerve. Clinical notes : Horner’s syndrome. Crocodile tears syndrome. Glaucoma. Cataract. Retinal detachment. | As above  Prof.Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10.00-11.30 | Lab | 2 | I,II | External & internal carotid arteries. External & internal jugular veins. Lymph drainage of the neck. | As above | Room 1,3 |
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| **week 14**  January 16-20 |  |  |  |  |  |  |  |  |
| Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Pharynx, parapharyngeal space, glossopharyngeal space, tonsils  The Ear (external, middle & internal). Vestibulocochlear nerve. Temporomandibular joint. Clinical notes : Hyperacusis. Otosclerosis. Conductive deafness. Otitis media. Meniere’s disease (labyrinthine hydrops). | As above  Prof . Jerzy Walocha | Room 1,3  e- learning |
| Wed | 10.00-11.30 | lab | 2 | I,II | Larynx- structure, blood and nerve supply, lymph drainage. | As above | Room 1,3 |
| Wed | 11.30-13.00 | Lab | 2 | whole class | Practical review | Dr M. Mazur | Room1, 3 |
| **Week 15**  January 23-27 |  |  |  |  |  |  |  |  |
| Mon | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Practical review  **Test 3 on neck, ear and eye- 60 questions** | As above  Prof. Jerzy Walocha | Room 1,3  online |
| Wed | 10.00-11.30 | lab | 2 | I,II | **Practical exam on neck, ear and eye- 20 questions.** | As above | Room 1-5 |
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**WINTER BREAK**

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| **week 16**  February 27th  March 3th |  |  |  |  |  |  |  |  |
| Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Blood and nerve supply of the face. Facial artery and nerve. Parotid gland.  Development of face. | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10.00-11.30 | lab | 2 | I,II | Dura mater venous sinuses. Venous drainage of the head. Blood & nerve supply of the meninges. | As above | Room 1,3 |
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| **week 17**  March 6-10 |  |  | |  | |  | |  | |  | |  | | |  |
| Mo | 9.45-11.15  12.15-13.45 | | Lab  lec | | 2  2 | | I,II  Whole class | | Oral cavity.Teeth.Gingiva. The tongue  Development of the teeth | | As above  Prof. Jerzy Walocha | | | Room 1,3  E-learning |
| Wed | 10.00-11.30 | | lab | | 2 | | I,II | | Maxillary artery. Maxillary nerve. | | As above | | | Room 1,3 |
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| **Week 18** March 13-17 |  |  | |  | |  | |  | |  | |  | | |  |
| Mo | 9.45-11.15  12.15-13.45 | | Lab  lec | | 2  2 | | I,II  Whole class | | Mandibular division of trigeminal nerve.  Communication of the pterygopalatine and infratemporal fossa (clinical correlation) | | As above  Prof Jerzy Walocha | | | Room 1,3  E-learning |
| Wed | 10.00-11.30 | | lab | | 2 | | I,II | | Pterygopalatine, infratemporal and retromandibular fossae. | | As above | | | Room 1,3 |
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| **Week 19**  March 20-24 | Mo | | 9.45-11.15  12.15-13.45 | | Lab  lec | | 2  2 | | I,II  Whole class | | Nasal cavity- walls, nerve & blood supply. Paranasal sinuses-practically  Nasal cavity- walls, nerve & blood supply. Paranasal sinuses-theoretically | | As above  Prof. Jerzy Walocha | Room 1,3  online | |
| Wed | | 10.00-11.30 | | lab | | 2 | | I,II | | Practical review | | As above | Room 1,3 | |
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| **Week 20** March 27- 31 | Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Practical review  **Test 4 – on head( 60 questions)** | As above  Prof.J.Walocha | Room 1,3  online |
| Wed | 10.00-11.30 | lab | 2 | I,II | **Practical exam on head- 20 questions.** | As above | Room 1-5 |
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**Easter break- April 5th-April 11th**

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| **Week 21**  April 3rd, April 12th | Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Thoracic walls- muscles, vessels , nerves. The diaphragm. Mediastinum.  Pericardium. Conducting system of the heart. Arterial supply and venous drainage of the heart. | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10.00-11.30 | lab | 2 | I,II | Lungs and heart | As above | Room 1,3 |
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| **Week 22**  April 17-21 | Mo | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Large vessels of the thorax: SVC, IVC, Aorta, pulmonary trunk, Pulmonary veins.  Nerves of upper limb | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10.00-11.30 | lab | 2 | I,II | Azygos veins. Vagus & phrenic nerves. Thoracic part of ST. | As above | Room 1,3 |
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| **Week 23**  April  24-28 | Mo | 9.45-11.15  12.15-13.45 | | Lab  lec | | 2  2 | I,II  Whole class | | Muscles of the shoulder girdle and arm.  Vascular system of upper limb | | | As above  Prof.Jerzy Walocha | | | Room 1,3  E-learning |
| Wed | 10.00-11.30 | | lab | | 2 | I,II | | Muscles of forearm and hand | | | As above | | | Room 1,3 |
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**May break 1-5**

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| **Week 24**  May 8-12 | Mo | 9.45-11.15 | | lab | | 2 | I,II | | Nerves of upper limb . | | | | As above | | Room 1,3 |
| Wed | 10.00-11.30 | | lab | | 2 | I,II | | Arterial and venous blood supply of upper limb. | | | | As above | | Room 1,3 |
| Fri | | 12.30-14.45 | | lab | | | 3 | | Whole class | Practical review | Prof. Jerzy Walocha | | Room 1,3 | |
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| **Week 25**  May 15-19 | Mo | 9.45-11.15  12.15-13.45 | | Lab  lec | | 2  2 | I,II  Whole class | | Walls of abdomen and pelvis.Peritoneum.  Vascular system of abdomen and pelvis  Portal circulation. | | | | As above  Prof. Jerzy Walocha | | Room 1,3  E-learning |
| Wed | 10.00-11.30 | | lab | | 2 | I,II | | Gastrointestinal tract- esophagus, stomach, small and large intestine. Liver.Gallbladder. | | | | As above | | Room 1,3 |
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| **Week 26** May 22-26 | Mo | 9.45-11.15  12.15-13.45 | | Lab  lec | | 2  2 | I,II  Whole class | | Retroperitoneal space, kidneys, suprarenal glans, ureters, abdominal aorta, IVC.  Abdominal cavity- mini quiz | | | As above  Prof. Jerzy walocha | | | Room 1,3  E-learning |
| Wed | 10.00-11.30 | | lab | | 2 | I,II | | Rectum. Urinary bladder.  Urinary tract | | | As above | | | Room 1,3 |
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| Fri | | 12.30-14.00 | | lab | | | 2 | | Whole class | Practical review | | Prof. Jerzy Walocha | Room 1,3 | |
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| **Week 27**  May 29- June 2 |  |  |  |  |  |  |  |  |
| Mon | 9.45-11.15  12.15-13.45 | Lab  lec | 2  2 | I,II  Whole class | Male and female genital organs.  Nerves of the lower limb – clinical correlation | As above  Prof. Jerzy Walocha | Room 1,3  E-learning |
| Wed | 10.00-11.30 | lab | 2 | I,II | Muscles of the lower limb. | As above | Room 1,3 |
| Fri |  |  |  |  |  |  |  |
|  | 12:30-14.45 | lab | 3 | Whole class | Practical review | Prof. J. Walocha | Room 1,3 |

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| **week 28**  June 5-7 | |  | |  | | | | |  | | |  |  | |  | | | | |  | |  | |
| Mo | | 9.45-11.15  12.15-13.45 | | | | | Lab  lec | | | 2  2 | I,II  Whole class | | Nerves of the lower limb.  Arteries of the lower limb – clinical correlations. Muscles. Superficial veins and lymphatic drainage of the upper limb – clinical correlations. | | | | | As above  Prof.Jerzy Walocha | | Room 1,3  E-learning | |
| Wed | | 10.00-11.30 | | | | | lab | | | 2 | I,II | | Vessels of the lower limb. | | | | | As above | | Room 1,3 | |
|  | | | |  | | | |  | | | |  | |  |  | |  | |  | | | lec | 2 | Whole class | Arteries of the lower limb – clinical correlations. Muscles. Superficial veins and lymphatic drainage of the upper limb – clinical correlations. |
|  | | | |  | | | |  | | | |  | |  |  | |  | |  | | |
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| **Week 29** June 12-16 | Mo | | 9.45-11.15  12.15-13.45 | | Lab  lec | | 2  2 | I,II  Whole class | | | Practical review  **Test 5 (thorax, upper limb, abdomen, pelvis, lower limb) –60 questions** | | | | | | | As above  Prof. Jerzy Walocha | | | | | Rooms 1,3  online |
| Wed | | 10-11.30 | | Lab | | 2 | I, II | | | **Practical exam on thorax, upper limb, abdomen, pelvis, lower limb –20 specimens** | | | | | | | As above | | | | | Rooms 1-5 |

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| **week 30**  June 19-23 |  |  | |  | |  |  | |  | | |  | | |  |
| Mo | 9.45-11.15 | | lab | | 2 | I,II | | Review of specimens to the final practical exam | | | As above | | | Room 1,3 |
| Wed | 10.00-11.30 | | lab | | 2 | I,II | | Review of specimens to the final practical exam | | | As above | | | Room  1,3 |
|  | |  | |  | | |  | |  |  | |  |  | |
| Fri | | 12:30-14.00 | | Lab. | | | 2 | | Whole class | Review of specimens to the final practical exam | | Prof. Jerzy Walocha | 1,3 | |
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| **week 31**  June 28th and June 30th |  |  | |  | |  |  | |  | | |  | | |  |
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| Wed | | 10-11.30 | | lab | | | 2 | | whole class | Final practical exam on anatomy – 30 questions | | Dr Małgorzata Mazur | Rooms 1-5 | |
| Fri | | 8-10.30 | | Lab. | | | 2 | | Whole class | Final theoretical exam -100 questions | | Dr Małgorzata Mazur | In person  Main lecture room | |

LECTURES ONLINE ASYNCHRONOUS by Dr Marcin Lipski, excluded from schedule:

1.Temporomandibular joint: function, introduction to TMJ dysfunction ( week 4)- 1h

2. Fascia of the neck, fascial spaces- suprahyoid, infrahyoid, communication and potential for infection. Ludwig’s angina, Abscesses. Cervical emphysema.( week 13)-2h

3. Muscles of the facial expression and mastication( week 17).- 2h

4. Trigeminal system – overview.( week 18)- 2h

5. Anatomy of anesthesia- intraoral injections.( week 19)- 2h

6. Lymphatic system of the head and neck.( week 29)- 2h