

Discussed and confirmed
on the methodical council
of the department
May 19, 2022.

**Thematic plan of practical lessons
on discipline “Histology, Cytology and Embryology”
for 1st year students, Faculty of Dentistry,
Autumn semester, academic year 2022/2023.**

No	Topic of Practical Lesson	Amount of hours
1	Introduction into Histology, Embryology and Cytology. Modern methods of morphological investigation. Microscope. Microscopical techniques.	3
2	General Structure of the Cell. Biological membranes. Cell membrane. Cytoplasm. Organelles and Inclusions.	3
3	Cell Nucleus. Cell division and cell differentiation. Cell aging and death. Signal systems in the cell.	3
4	Progenesis. Fertilization, Cleavage. Gastrulation. Histo- and organogenesis. Implantation, formation of placenta, extraembryonic organs.	3
5	Summary lesson 1. Cytology and Embryology.	3
6	General histology. Sources of development and general principles of tissues organization. Epithelial tissues. Glandular Epithelium.	3
7	Tissues of internal environment. Morphology of Blood and Lymph. Hematopoiesis.	3
8	Tissues of internal environment. Connective tissue proper. Connective tissues with special properties.	3
9	Skeletal connective tissues – cartilage and bone.	3
10	Special tissues. Muscular tissue.	3
11	Special tissues. Nervous tissue.	3
12	Summary lesson 2. General histology. Tissues.	3
13	Central and peripheral nervous system. Receptors.	3
14	Sensory organs. The Eye. Visual analyzer (eye and related structures).	3
15	The Ear. Statoacoustic system.	3
16	Summary lesson 3. Nervous system. Sensory systems of human organism.	3

Duration of practical lessons – 3 hours. In total – 48 hours.

Chief of the Department of Histology
and Embryology,
Assoc. Prof.

Ilona Chelpanova, M.D, PhD

Deputy for Academic work,
Assoc. Prof.

Olga Yuzych, PhD