

**Personal thematic plan of practical lessons
on discipline “Histology, Cytology and Embryology”
for Mr.Daniel Jacob Yablonsky,
1st year student, Faculty of Dentistry,
Autumn semester, Academic year 2023/2024.**

№	Topic	Amount of hours
1	History of Histology, Cytology and Embryology. Histology in Ukraine.	3
2	Microscope. Microscopic devices. Histological techniques.	3
3	Modern methods of histological investigations.	3
4	Intercellular junctions, their types, intercellular interaction.	3
5	Chromatin and Chromosomes. Morphology and chemical structure. Karyotype. Ploidy.	3
6	Life and cell cycle, their characteristics. Apoptosis, its biological and medical meaning. Cell aging and cell death.	3
7	Conception of extracorporal fertilization, its medical and social meaning.	3
8	Cloning of animals. Fertilization vitro, morphological aspects of embryonic transplantation.	3
9.	Law of rise and evolution of tissues. Differentiation, determination, regeneration.	3
10.	Humal blood picture in the norm and white blood cells count. Age-related changes of Blood. Lymph characteristics.	3
11.	Embryonic hemopoiesis (development of blood). Peculiarities of yolk sac and hepatic hemopoiesis. Modern model of hemopoiesis.	3
12	Postembryonic hemopoiesis. Conception of colonies-making units.	3
13	Histogenesis, regeneration and age changes of cartilage.	6
14	Osteogenesis and regeneration of bone.	6
15	Molecular mechanisms of muscle fiber contraction.	3
16	Cytophysiology of conducting system of the heart.	3

In total

54 hours.

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

Ilna Chelpanova, M.D, PhD.

**Deputy for Academic work,
Assoc. Prof.**

Olga Yuzych, PhD., DS.