STUDY BRANCH: **Dental medicine**
SUBJECT: **General and oral histology and embryology 2**
YEAR OF EDUCATION: **1**
TERM: **summer**
LECTURES
NUMBER OF TEACHING HOURS PER WEEK: **2**

1th teaching week:
Microscopic structure and development of circulatory system
Heart, endocardium, myocardium, epicardium. Arteries – elastic and muscular, veins. Capillaries – continuous, fenestrated, discontinuous – sinusoids.
Early heart development, later heart development. The aortic arches. Prenatal circulation, postnatal circulation. Malformations of the heart and great vessels.

2 nd teaching week:
Microscopic structure and development of lymphoid system
Tonsils, lymph nodes, thymus, organ transplantation. Histogenesis.

3 rd teaching week:
Microscopic structure and development of respiratory system
Nasal cavity, nasopharynx, larynx, trachea, bronchial tree, lung, the alveolo-capillary membrane. Histogenesis of lungs.

4 th teaching week:
Development of the face and neck
Branchial arches, pharyngeal pouches, branchial grooves, branchial membranes, development of the face, nasal cavity, palate. Congenital anomalies of the face and oral cavity.

5 th teaching week
Microscopic structure of the digestive tract.
Oral cavity, tongue, teeth. General structure of digestive tract, oesophagus, stomach. Development of the tongue and salivary glands.

6 th teaching week:
Microscopic structure of the tooth
Hard tissues of the tooth – enamel, dentin, cementum. Soft tissues of the tooth – dental pulp. Supporting tissues of the tooth.

7 th teaching week:
Development of the tooth
Labiogingival ridge, labiobuccal and gingival ridge, dental lamina. Development of the crown, enamel organ – ameloblasts. Dental papilla. Odontoblasts, predentin, dentin. Development of the root. Tooth eruption.

8 th teaching week:
Microscopic structure of kidney and testis
Kidney, histophysiology. Testis, histophysiology.

9 th teaching week:
The female reproductive system
Ovary, ovarian follicles, uterus, the menstrual cycle. Microscopic structure and development of placenta.

10 th teaching week:
Microscopic structure and development of the endocrine system
Hypophysis, histophysiology of the pars distalis, neurohypophysis. Histogenesis.
Thyroid gland, parathyroid gland.

11 th teaching week
Microscopic structure and development of the central nervous system
Brain, cerebellum, spinal cord, myeloarchitecture and cytoarchitecture of the CNS.
Histogenesis.

12 th teaching week:
Development of the skull, microscopic structure of the skin
Chondrocranium, desmocranium, viscerocranium.
Epidermis, dermis. Sweat and sebaceous glands.

13 th teaching week:
Microscopic structure and development of the eye

14 th teaching week:
Microscopic structure and development of the ear