STUDY BRANCH: Dental Medicine
SUBJECT: General and oral histology and embryology
YEAR OF EDUCATION: 1
TERM: Winter 2012/2013
LECTURES
NUMBER OF TEACHING HOURS PER WEEK: 2

1st teaching week:
The subject matter of histology. Development of the Histology, credit system, composition of the cells, intercellular substance and tissue fluid, cell membrane, transmembrane transport.

2nd teaching week:
Cytology – general structure of eukaryotic cell, cytoplasmic matrix, cell organelles membrane limited/unlimited, cytoplasmic inclusions, nucleus and nucleolus.

3rd teaching week:
Epithelial tissue I. – covering epithelium, cell junctions – zonula occludens, zonula adhaerens, macula adhaerens.

4th teaching week
Epithelial tissue II. – glandular epithelium, secretory and duct portion.

5th teaching week:
Connective tissue proper - classification of connective tissues, loose connective tissue, dense connective tissue, connective tissue with special function.

6th teaching week:
Cartilage – cells , intercellular substance, hyaline, elastic and fibrocartilage.

7th teaching week:
Bone tissue I. – compact and spongy bone.

8th teaching week
Bone tissue II. - Endochondral and intramembranous ossification.
Hemopoiesis - development of erythrocytes.

9th teaching week
Muscular tissue I. - striated skeletal muscle, light and electron microscopic structure, function.

10th teaching week
Muscular tissue II. -cardiac muscle, smooth muscle tissue. Afferent and efferent nerve endings.

11th teaching week:

12th teaching week:
Developmental principles in the ontogenesis.
Gametogenesis, fertilization, implantation. First week of human development.

13th teaching week:
Second and third week of human development.
Primitive streak, development of mesoderm, notochord, neurulation. Primitive cardiovascular system.

14th teaching week:
Final test.