

COURSE NAME: Anatomical Sciences I
NUMBER OF CREDITS: 3.0 (theory) – 1.0 (practical)
COURSE TYPE: Theoretical and Practical
LECTURER: Dr Mohsen Setayeshmehr

GENERAL AIMS and DESCRIPTION:

This is a lecture and laboratory course that examines the microanatomy of cells, tissues and organs. Lectures illustrate the microstructure of major tissues and organs in relation to their function. Laboratory exercises use the light microscope to study these components and make use of slides and electron micrographs for review and discussion. This lab-oriented program presents the molecular biology and histology of normal cells, tissues and organ systems at various developmental functional stages. Students learn how individual cell functions interact with one another and how such interactions are accomplished from the tissue levels to the organ levels. The course introduces molecular and control systems and prepares students for an understanding of normal (homeostasis) systems and pathological conditions. In addition, students learn how molecular building blocks are utilized for growth and differentiation, wound healing and tissue repair, defense mechanisms and transfer of hereditary characters.

References

1. **Junqueira's Basic Histology.** McGraw-Hill Medical, last edition

Anatomical Sciences I (theory) subjects

Session Title	Hrs.
<i>Epithelial Tissue</i>	2
<i>Connective Tissue</i>	2
<i>Types of Connective & Adipose Tissue</i>	2
<i>Cartilage Tissue & Joints</i>	2
<i>Osseous Tissue & Ossification</i>	2
<i>Blood & Hematopoiesis</i>	2
<i>Muscular Tissue</i>	2
<i>Nervous Tissue</i>	3
<i>Skin</i>	2
<i>Circulatory System</i>	2
<i>Digestive System</i>	4
<i>Respiratory System</i>	4
<i>Urogenital System</i>	4
<i>Endocrine System</i>	2
<i>Total hrs.</i>	35

Anatomical Sciences I (practical) subjects

Session Title	Hrs.
<i>Microscopes</i>	2
<i>Epithelial Tissue & Connective Tissue</i>	2
<i>Cartilage & Bone</i>	2
<i>Muscular Tissue</i>	2
<i>Blood & Skin & Nervous Tissue</i>	2
<i>Circulatory System Tissue</i>	2
<i>Respiratory system Tissue</i>	2
<i>Digestive system Tissue</i>	2
<i>Urogenital system Tissue</i>	2
<i>Endocrine system Tissue</i>	2
<i>Total hrs.</i>	20