



**Syllabus of Medical Biology
2020-2021**

Cytology

1- Introduction of medical Biology	1	Dr. Emad
2- Chemistry of cell (inorganic & organic molecules)	2	Dr. Emad
3- Structure and Function of nucleus	2	Dr. Gaida
4- Cytoplasm (Cytoskeleton and cytoplasmic inclusions)	1	Dr. Gaida
5- Mitochondria	1	Dr. Emad
6- Ribosome & Endoplasmic Reticulum	1	Dr. Emad
7- Golgi complex & Lysosome	1	Dr. Emad
8- Molecular organization of plasma membrane	1	Dr. Emad
9- Modification of plasma membrane	1	Miss. Balqees
10- Transport across the plasma membrane	1	Miss. Balqees
11- Cell cycle division (Mitosis & Meiosis)	2	Dr. Kawthar
12- Cell differentiation and cell death	1	Dr. Kawthar

Basic Histology

1- Epithelial Tissue	2	Miss. Balqees
2- Glandular Tissue	1	Miss. Balqees
3- Cell Junction	1	Miss. Balqees
4- Connective Tissue	2	Dr. Gaida
5- classification of connective tissue	2	Dr. Gaida

6- Blood	1	Dr. Gaida
7- Cartilage Tissue	1	Dr. Gaida
8- Bone and Ossification	2	Dr. Gaida
9- Muscular Tissue	2	Dr. Gaida
10- Nervous Tissue	2	Dr. Emad

Genetics

1- Introduction of Genetics	1	Dr. Kawthar
2- Deviation from mendel's Laws	1	Dr. Kawthar
3- Human chromosomes	1	Dr. Kawthar
4- Numerical and structural aberration	2	Dr. Kawthar
5- The structure and functions of DNA	1	Dr. Kawthar
6- The structure and functions of RNAs & transcription	1	Dr. Kawthar
7- Genetic code & protein synthesis	1	Dr. Kawthar
8- Gene mutation	1	Dr. Kawthar
9- Gene repair	1	Dr. Kawthar
10- Genetic engineering	1	Dr. Kawthar