

Essentials of biology to enter the medical course

List of contents	Contents of each session	Number of theoretical hours	Number of practical hours
1- Overview of microscopy	The structure and function of microscopes	1	2
	Types of microscopes	1	
2- Overview of the cell and cytoplasm	Membranous organelle	3	
	Nonmembranous organelles	2	
	Inclusions Cytoplasmic matrix	1	
3- Overview of the nucleus	Nuclear components	2	
	Cell renewal	1	
	Cell cycle Cell death	1	
4- Overview of the basic genetic mechanisms	DNA, chromosomes, and genomes	2	-
	DNA replication	2	
	How cells read the genome: From DNA to protein	2	
5- Overview of anatomy and histology	Introduction to general histology	2	3
	Skeletal & Muscular System	2	2
	The Circulatory System	2	2
	The Respiratory System	2	2
	Digestive Tract	2	2
	The Urinary System & The Reproductive System	2	2
6- Overview of the embryology Fertilization	Gametogenesis	2	2
	Pre-embryonic period	2	
Total of sessions		34	17