

Structure and physiology of microorganisms
Master's degree , The second half of 1402-1403
Course leader Dr.Mirkalantari

		Time			1
Dr. Irajian	Definition of microbiology - the position of microbiology in the classification of living organisms - the position of microorganisms in nature				
Dr. Irajian	History of microbiology - classification method of bacteria and its application (genotypic-phenotypic)				2
Dr. Irajian	structure of bacteria - cytoplasm and its contents				3
Dr. Irajian	Bacterial cell wall (importance of chemical structure)				4
Dr. Irajian	The cell wall of bacteria (special structure in bacteria (mycobacteria L.formes) - pili (structure - types – importance)				5
Dr. Mojtahedi	Secretory systems in bacteria				6
Dr. Mojtahedi	Cytoplasmic membrane and its role in bacterial life (substance transfer - electron transfer)				7
Dr. Mojtahedi	Flagellum (structure - mechanisms of movement in bacteria - capsule and biofilm and its role				8
Dr. Amirmozafari	Spore (construction - sporulation - (Germination - genetic control				9
Dr. Mojtahedi	Physiology of growth, life and death				10
Dr. Mojtahedi	Physiology of growth, life and death and their related laws				11
Dr. Mirkalantari	Bacterial growth				12
Dr. Talebi	Ecology of bacteria				13
Dr. Talebi	The process of energy production in bacteria (Vital energy)				14
Dr. Talebi	Respiration and fermentation mechanisms and use in bacterial detection				15
Dr. Talebi	Biosynthesis of structural components of bacteria				16