

## DEPARTMENT OF MICROBIOLOGY

SEMESTER	PAPER CODE	PAPER NAME	COURSE OUTCOME
2 <sup>ND</sup>	MICO200104	CELL BIOLOGY	<ol style="list-style-type: none"> <li>1. Students will be able to understand the structure and function of cell organelles.</li> <li>2. Students will be able to understand cell division, cell to cell interaction, role of cytoskeleton elements and motor proteins.</li> <li>3. Students will be able to understand the importance of stem cells, their applications, types of cancer their causes and treatment.</li> <li>4. Students will be able to understand the relationships between the properties of macromolecules and their biological functions.</li> <li>5. Students will be able to understand the physiochemical composition of organelles.</li> </ol>

SEMESTER	PAPER NAME	COURSE OTCOME
4 <sup>TH</sup>	BACTERIOLOGY	<ol style="list-style-type: none"> <li>1. Students will be able to understand the structure and function of microorganisms.</li> <li>2. Students will be able to understand the growth, control and nutrition of microorganisms.</li> <li>3. Students will be able to understand how to use scientific methods of bacteriological techniques and microscopy.</li> <li>4. Students will be able to understand reproduction in bacteria, bacterial systematics.</li> <li>5. Students will be able to understand important archeal and eubacterial groups and role of microbes in biotechnology.</li> </ol>
4th	MICROBIAL PHYSIOLOGY AND METABOLISM	<ol style="list-style-type: none"> <li>1. Understand the growth characteristics of the microorganisms capable of growing under unusual environmental condition of temperature, oxygen and solute and water activity.</li> <li>2. Understand the growth characteristics of the microorganisms that require different nutrients for growth and the associated mechanisms of energy generation for their survival like autotrophs, heterotrophs, chemolithoautotrophs.</li> <li>3. Understanding the concepts of aerobic and anaerobic respiration and how these are manifested in the form of different metabolic pathways .</li> </ol>