

Approval: 9th Senate Meeting

Course Name: Cell Biology and Physiology Lab

Course Number: BY520P

Credit: 0-0-2-1

Prerequisites: None

Students intended for: M. Tech. Biotechnology

Elective or Core: Core Lab for M. Tech. Biotechnology

Semester: Odd/Even

- Subcellular fractionation and isolation of organelles
- Sub cellular localization of proteins
- Techniques for the propagation of eukaryotic and prokaryotic cells
- Cells lines-generation, characterization and maintenance
- Immunohistochemistry
- cell proliferation and apoptosis monitoring
- Experiments to study active and passive transports across cell membranes
- Experiments to study cell migration, directionality and speed under shear pressure or across chemotactic gradient
- Experiments to study role of adhesion molecules in cell movements and cell-pathogens interaction