## BIOFORS™

## FERMENTATION TEACHING UNIT

MODEL: BTU-200



HE FERMENTATION TEACHING UNIT (Model: BTU-200) has been designed to introduce students of Biotechnology and Biochemical Engineering on the chemical process which involves organisms or biochemically active substances derived from such organisms. Bioreactor is an apparatus for growing organisms (yeast, bacteria or animal cells) under controlled conditions that are used in the food and pharmaceutical industry. Bioreactor give the cells a controlled environment by ensuring the same temperature, gas, agitation, pH and dissolve oxygen levels.

This module will introduce students to laboratory procedures associated with bioprocesses and covers the area of principles and practices of fermentation, fermentation organisms, basic bioreactor design, controlled parameters and instrumentation. It will also develop students' knowledge and understanding of bioprocessing, analytical abilities and problem solving methodologies in this area. In particular student will culture microorganisms at laboratory scale in the BTU-200 bioreactor system. Growth and productivity of cells will be monitored and measured.