

INSTRUMENTATION TECHNIQUES

ONE MONTH ONLINE

LABORATORY PRACTICES

Any Biology,
Chemistry, Biotechnology,
Microbiology, Biochemistry,
student/Faculty can join

JOB PROSPECTS: INDUSTRY/RESEARCH

TECHNIQUES TO BE COVERED

1. INTRODUCTION LABORATORY
 - a. Documentation: The Lab Notebook & Lab Report
 - b. Biotechnology Laboratory Security & Safety
 - c. Lab Equipment & Reagent Orientation
 - d. Math Skills for the Laboratory
2. BASIC TECHNIQUES: PRINCIPLE, STANDARD OPERATING PROCEDURE
 - a. Sterilization Techniques
 - b. Magnetic stirrer
 - c. Vortex mixer
 - d. Production grade Centrifuge
 - e. Gel documentation unit
 - f. BOD Incubator
 - g. Shaker incubator
3. ADVANCED TECHNIQUES:
 - a. Polymerase Chain Reaction
 - b. Gas Chromatographs – Mass Spectrometer
 - c. High Pressure Liquid Chromatographs (HPLC)
 - d. Atomic Absorption Spectrophotometer
 - e. Spectrophotometer
- h. Laminar air flow chamber
- i. Deep freezer
- j. Digital pH meter
- k. Electrophoresis Units
- l. Bacteriological Incubator
- m. Binocular Microscope
- n. Electronic balance

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