

## Objectives of Training & Projects are:

- Students are provided training and individual exposure to each Instrument and Applications which helps them to gain Technical knowledge, thus improve their job prospects.
- The curriculum offered covers the entire spectrum of Biotechnology and Microbiology.
- It aims at understanding how research tools and experimentation can be exploited to understand questions of fundamental significance in the field of Life Science.

Eligibility: B.Sc/M.Sc/BTech/MTech – BioTechnology / MicroBiology /
Biochemistry, BE Biotech, Pharma graduates, Research Scholars,
Medical Students, Dental Students.



#### Introduction

Fundamentals to molecular biology Scope, objective Application of molecular biology
Concept and mechanism of heredity
Genetic Material: DNA & RNA, structure & types

### **DNA Replication**

Central Dogma of Molecular Biology
Prokaryotic DNA Replication
Eukaryotic DNA Replication





## Projects:

- Gene Expression Studies by PCR.
- RAPD Random Amplification of Polymorphic DNA using short Universal Primers to generate DNA fragments to Determine Genetic Diversity.
- RFLP Restriction Fragment Length Polymorphism technique,
   to determine Variations in Homologous DNA Sequences.

# OUR AUTHORIZED TRAINING & CERTIFICATION PARTNERS







