



ADVANCE RECOMBINANT DNA TECHNOLOGY AND PCR

Duration: 45 days

Code: HRDT-45

**An introduction to Recombinant DNA Technology
Instrumentation in Biotechnology and Molecular Biology
Isolation of DNA from fruit
Isolation of DNA from Plant source by SDS and C-TAB method
Industrial Isolation and purification of Genomic DNA from animal
tissue/yeast
Isolation and purification of Genomic DNA from Prokaryotes
Isolation of Plasmid DNA from prokaryotes
Purification of DNA
Separation of DNA by Gel electrophoresis technique
Southern Blotting and its application spectrum
Restriction enzymes in the field of Recombinant DNA Technology
Restriction digestion
Agarose gel Electrophoresis
Quantitative estimation of DNA
SDS-PAGE, a molecular separation technique
Competent cell Preparation
Transformation
Screening of transformed cells
Primer designing and applications
PCR Basics
Amplification of gene of interest
Stem cells therapeutics in Cancer
DNA sequencing**

Project (Optional)