



CLINICAL RESEARCH

Duration: 90 days

Code: CR-90

- An introduction to Clinical Diagnostics.
- Blood components and their importance in Clinical Diagnostics.
- Molecular Diagnostics and PCR
- Overview of clinical research in healthcare.
- Clinical Research and Disease management
- Biases in decision making
- Clinical / Biomedical data analysis and use of different software e.g
- SAS, SPSS, ORACLE CLINICA.
- Oncoinformatics, treating cancer with cancer database management.
- Drug types and different metabolic pathways
- QSAR and QSPR, Medical Informatics
- Isolation of DNA from Blood
- Agarose gel electrophoresis
- CRF, Toxicity Test
- QSAR, QSPR studies on different drugs.
- Clinical data Management with SAS

Wet Lab Practical (Any three Diseases)

HEPATITIS/CIRRHOSIS/LIVER DISEASES

- Detection of albumin levels
- Estimation of Serum bilirubin
- Determination of Creatinine levels
- Determination of serum SGPT levels

RENAL DYSFUNCTION

- Estimation of levels of Chloride ions

ALL DISEASES

- Detection of Iron levels by Hemocor methods
- Estimation of serum Glucose levels
- Determination of serum SGOT levels
- Detection of Cholesterol in serum/plasma

THYROIDISM

- Determination of Serum / Plasma Calcium levels

CORONARY HEART DISEASE

- HDL Cholesterol detection by PEG PPT
- CK-MB activity determination by modified IFCC method

DIABETES

- Estimation of Glycosylated Haemoglobin
- Detection of Serum magnesium levels
- Detection of urine micro protein levels

Project (Optional)