

POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

Candidate with D.M.L.T. qualification are expected to work as technicians in laboratories attached to hospitals under supervision of a senior officer like Biochemist, Microbiologist or Pathologist. They may be employed in a small laboratory functioning independently or attached to a doctor's clinic.

Programme Outcome:

1. Laboratory management and planning: Reception and recording of specimens, maintenance of laboratory records, reporting.
2. Specimen collection: Whole blood, plasma, serum, urine, C.S.F & other body fluids, preservation of specimens, anticoagulants.
3. Quality Control: Role of quality control and its importance. Accuracy, Reliability, Precision. Internal and external quality control measure, preparation of reagents, standardization of methods, safety measures and precautions.
4. Basic laboratory equipment's : Types, use, care and maintenance of following equipment: Ovens, Incubators, Refrigerators, Deep freezer. Centrifuges, Waterbaths, Water distillation ,Analytical Balances, microscopes.
5. Glasswares: Types, use, care and maintenance of flasks, pipettes, cylinders, funnels, tubes, thermometers.
6. Analytical instruments and techniques: Principles, types, use, care and maintenance of photoelectric colorimeters, spectrophotometers, flamephotometers, electrophoresis, Chromatography, Elisa and RIA, isotopes.
7. Biochemical test profiles: Principle and use of Glucose tolerance test, liver function tests, kidney function tests, Thyroid Function Test.

Subject Specific Outcome:

Cognitive Domain:

1. Should learn all the aspects of laboratory investigations in Biochemistry, Microbiology and Pathology.
2. Have knowledge to maintain and use all the equipments like Oven, Incubator, Colorimeters, Spectro Photometer, electrophoresis, Chromatography, ELISA and RIA, etc.

Psychomotor Domain:

1. Techniques of collection of various specimens
2. Test Principles and Techniques for Glucose Tolerance Test, Liver Function Test, Kidney Function Test, Thyroid Function Test, etc.
3. Preparation and standardization of various reagents

Affective domain:

1. Good communication technique
2. Proper reporting
3. Ethics and morality and social accountability