

# Healthcare

## B. Voc. in Medical Laboratory Technology

### Course Introduction

A graduate of B. Voc. in Medical Laboratory Technology is an all-rounder as far as technologies in a medical laboratory is concerned. The course envisages to build in an overall expertise in the student, of performing medical laboratory tests, whether its routine or special tests. The students would be capable of performing a range of tests such as those related to phlebotomy, clinical biochemistry, haematology, serology, cytogenetics, etc. Besides, skills related to lab management and ethics, biomedical waste disposal, personality development, effective communication skills, attitude of health care workers etc. would also be developed in them.

The course creates the grounds for enhancing vertical growth opportunities for the Medical Laboratory Technician graduate.

The course aims to impart students with knowledge regarding Anatomy, so that they understand

the investigative aspect adequately to equip themselves to perform laboratory procedures. It will not only help the students to perform investigative procedures more accurately but also help them to perform better in a Pathology Lab.

### Eligibility for Admission

The eligibility for admission to B. Voc. in Medical Laboratory Technology shall be 10+2 or equivalent, in science stream.

### Career Prospects/Job Roles

Depending upon one's training and qualification, the B.Voc in Medical Laboratory Technology professionals may work as technologists or technicians at medical laboratories. The student may start off by working as a technician. Some of the common job profiles available in front of graduates include - *Lab Technician, Lab Technologist, Lab Supervisor and Lab Manager.*

### Semester-wise Listing of Courses

SEMESTER I		
Subject Code	Subject Name	Credits
GE 1.1	Functional English	4
GE 1.2	Communication Skills - I	4
GE 1.3	Computing Skills - I	4
MLT 1	Anatomy - I	2
MLT 2	Physiology - I and Laboratory Basics - I	4
MLT 3	Phlebotomy and Waste Management - I	4
MLTP 1	Vocational Practical	12

SEMESTER II		
Subject Code	Subject Name	Credits
GE 2.1	Basics of Economics and Markets	4
GE 2.2	Environment Sciences	4
GE 2.3	Ethics and Governance	4
MLT 4	Anatomy - II	2
MLT 5	Physiology II and Clinical Biochemistry - I	4
MLT 6	Haematology - I & Clinical Pathology - I	4
MLT 6A	Lab Chemistry	2
MLTP 2	Vocational Practical	12

SEMESTER III		
Subject Code	Subject Name	Credits
GE 3.1	Communication Skills - II	4
GE 3.2	Financial Literacy	4
GE 3.3	Basics of Legal and HR Policies	4
MLT 7	Bacteriology and Clinical Biochemistry - II	4
MLT 8	Laboratory basics - II and Waste management - II with Lab Ethics	4
MLT 9	Histopathology, Cytology and Digital Pathology	4
MLTP 3	Vocational Practical	12

SEMESTER IV		
Subject Code	Subject Name	Credits
GE 4.1	Computing Skills - II	2
GE 4.2	Basics of Accounting	4
GE 4.3	Design Thinking	4
GE 4.4	Organizational Behaviour	2
MLT 10	Haematology - II and Clinical Pathology - II (Part I)	4
MLT 11	Virology and Mycology	4
MLT 12	Haematology and Blood Banking	4
MLTP 4	Vocational Practical	12

SEMESTER V		
Subject Code	Subject Name	Credits
GE 5.1	Digital Literacy	4
GE 5.2	Health and Wellness	4
GE 5.3	Personal Grooming and Personality Development	4
MLT 13	Clinical Pathology - II (Part II)	4
MLT 14	Endocrinology - I and Parasitology	4
MLT 15	Molecular Biology - I	4
MLTP 5	Vocational Practical	12

SEMESTER VI		
Subject Code	Subject Name	Credits
GE 6.1	Entrepreneurship	4
GE 6.2	Employment Readiness	4
GE 6.3	Effective Workplace Skills & Competencies	4
MLT 16	Immunology - II and Endocrinology - II	4
MLT 17	Molecular Biology - II, Bio Banking (cell storing with Cytogenetics)	4
MLT 18	Toxicology, Quality Control/ Accreditation Procedures	2
MLTP 6	Vocational Practical	12

**Programme fees:** (Rs. 48,000/-per annum)

**Examination fees:** (Rs. 1,600/- per semester and Rs.3200 per annum)

**Caution Deposit (Refundable):** Rs.5000

**Convocation Fees:** Rs.2000/- (In absentia Rs.2500/-)

**Campus Immersion Expenses:** (Travel & Logistics for 7-10 days on Campus) are not part of the fee structure and the expenses will have to be met by the students followed by communication.