



M.Sc. Medical Lab Technology



OVERVIEW

MSc Medical Lab Technology is a paramedical course which deals with an introduction to patient care with proper diagnosis using clinical laboratory equipment to run the tests. It is a 2-year postgraduate program that includes fascinating subjects like molecular biology, human anatomy & physiology, biochemistry, hematology, etc.

During the course, the students are taught about various diseases, their diagnosis, treatment, and ways to prevent them. The students are trained to render emphasis on how to carry the clinical tests accurately that will help the physician to make a proper diagnosis.

ELIGIBILITY

Candidates who have passed the B.Sc.(MLT) degree of any of the Universities

SCOPE AND OBJECTIVE

Post Graduate programme in Medical Laboratory technology gives Opportunity for specialized study in the field of Laboratory Technology for B.Sc. (MLT) Graduates. Candidates who successfully complete M.Sc. (MLT) course may obtain jobs as:

- Specialized technologist in Pathology or supervisors of clinical laboratories in Hospitals
- Laboratory scientists in Biomedical and research institutes
- Teachers in training institutes of Medical Laboratory Technology
- Utilize or apply the concepts, theories and principles of laboratory science
- Demonstrate the ability to plan an effect the change in laboratory practice and Health care delivery system
- Establish collaborative relationship with members of other disciplines
- Demonstrate interest in continued learning and research for personal and Professional advancement

PROGRAM SPECIFIC OUTCOMES (PSO) (MSC MLT PATHOLOGY)

1. Good knowledge about organization of a laboratory.
2. Good knowledge about quality control measures, its corrective and preventive actions & accreditation of laboratories.
3. Employability as technologist /Supervisor in various sectors and Research organizations
4. Employability as teaching faculty
5. Entrepreneurship in Medical Laboratory Sciences
6. Good knowledge about principles and operations of all laboratory equipments
7. Skill in performing the special techniques in laboratory
8. Core knowledge on Haematology, Cytology, Cytogenetics, Histopathology, Clinical pathology, Molecular biology, Blood banking and Immunopathology
9. Ability to interpret the results
10. Good knowledge about how to purchase equipments and chemicals to the laboratory

CAREER PROSPECTIVE

The most common MSc Medical Lab Technology job profiles and career prospects after completing the course are as follows:

1. Lab Technician
2. Senior Biomedical Analyst
3. Healthcare Administrator
4. Health and Safety Officer

COURSE OUTLINE

Master in Medical Lab Technology (Pathology) M Sc. M.L.T. 1st YEAR

1. Human Anatomy & Physiology
2. Clinical Biochemistry
3. Clinical Pathology
4. Clinical Microbiology

Practical

1. Human Anatomy & Physiology
2. Clinical Biochemistry
3. Clinical Pathology
4. Clinical Microbiology

Master in Medical Lab Technology (Pathology) M Sc. M.L.T. 1st YEAR

1. Physiology & Nutrition
2. Biostatistics & Hospital Management
3. Clinical Hematology
4. Advance Instrumentation & Maintenance

Practical

1. Physiology & Nutrition
2. Clinical Hematology
3. Advance instrumentation & Maintenance

Master in Medical Lab Technology (Pathology) M Sc. M.L.T. 2ND YEAR

1. Lab Management
2. Blood Transfusion & Immune Hematology
3. His to Pathology
4. Diagnostic Microbiology

Practical

1. Blood Transfusion & Immunohematology
2. Histopathology
3. Diagnostic Microbiology

Master in Medical Lab Technology (Pathology) M Sc. M.L.T. 2ND YEAR

1. Basic Cellular Pathology & Allied Technology
2. Hematology & Clinical Pathology
3. Anatomy & His to Technology
4. Pathology & cytology Technology

Dissertation (Pathology) & Viva

Practical

1. Hematology & Clinical Pathology
2. Anatomy & His to Technology
3. Pathology & Cytology Technology

COURSE FEE

MLT (Medical Lab Technology) (2021-22)

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|---|--------|
| Eligibility Criteria: The Candidates who possess B.Sc. Allied Health Sciences/ Medical Laboratory Technology/ Biochemistry/ Microbiology or its equivalent qualifications from a Recognized Institution/ University. | |
| Course Durations (in years) | 2 |
| Tuition Fee for 2021-22 Batch (₹) | 120000 |
| Total Amount to be deposited at the time of admission (₹) | 41600 |
| a. One time Fee /charges payable at the time of admission (₹) | 33600 |
| b. Fee for (Sep- Oct) 2021 | 8000 |

Tuition Fee Post Dated Cheque Presentation schedule

| Quarter (Duration) | Date of Cheque Presentation | Amount (₹) |
|--------------------------------|-----------------------------|--------------|
| 1 st Qtr (Nov-Jan) | 21 st Nov 2021 | 16000 |
| 2 nd Qtr (Feb-Apr) | 21 st Feb 2022 | 16000 |
| 3 rd Qtr (May-July) | 21 st May 2022 | 16000 |
| 4 th Qtr (Aug-Oct) | 21 st Aug 2022 | 16000 |
| 5 th Qtr (Nov-Jan) | 21 st Nov 2022 | 16000 |
| 6 th Qtr (Feb-Apr) | 21 st Feb 2023 | 16000 |
| 7 th Qtr (May-July) | 21 st May 2023 | 16000 |