



**MAGANBHAI ADENWALA MAHAGUJARAT UNIVERSITY**

**FACULTY OF PARAMEDICAL SCIENCES**

**At**

**Constituent Institute**

**Maganbhai G Patel (Adenwala) Institute of Medical Technology, Nadiad**

**[Managed by Mahagujarat Medical Society, Nadiad]**

***INFORMATION BOOKLET***

**For**

**DIPLOMA IN**

**MEDICAL LABORATORY TECHNOLOGY – [PGD MLT]**



**Academic Year 2023-24**

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**(One Year Three Months Full Time Course)**

**Introduction - DMLT**

**Diploma in Medical Laboratory Technology (DMLT)** is a one of the top paramedical courses with 2-year duration as **Diploma Course** pursued after the successful completion of the 10+2 level of education. This paramedical course involves advanced professional learning in: - Prevention, Diagnosis and Treatment of diseases in patients through clinical laboratory tests. The course focuses on training students in various laboratory techniques and procedures used for diagnostic testing. The course curriculum includes theoretical and practical components, with students gaining hands-on experience in laboratory settings through internships and practical training. The course is designed to provide students with comprehensive knowledge of various laboratory techniques, including microbiology, biochemistry, clinical pathology, serology, and hematology. Students learn how to conduct diagnostic tests, interpret test results, and maintain laboratory equipment and supplies.

**Why DMLT?**

The DMLT course is ideal for students who are interested in working in the healthcare sector and want to contribute to the diagnosis and treatment of various diseases. The course curriculum includes both theoretical and practical components, with students gaining hands-on experience in laboratory settings through internships and practical training.

Upon completion of the DMLT course, students can pursue a career as a medical laboratory technician, laboratory supervisor, laboratory manager, or laboratory technologist in hospitals, clinics,



research institutes, and diagnostic laboratories. They can also opt for further studies such as a Bachelor's degree in Medical Laboratory Technology, which will provide them with more career opportunities. In nut shell, the DMLT course is an excellent option for students who are interested in healthcare and have a passion for laboratory work. It provides them with the necessary skills and knowledge to become competent medical laboratory technicians, which is a crucial role in the healthcare industry.

## **DMLT Course Eligibility Criteria**

To be eligible for the DMLT course at MAM University, candidates must have completed & passed their 10+2 education with any stream from a recognized Board.

## **DMLT Course Admission Process**

The candidate can fill out a hard copy of the application form at the Maganbhai G Patel (Adenwala) Institute of Medical Technology, Mahagujarat Hospital campus, Nadiad and pay a registration fee to confirm their admission.

## **DMLT Course Duration**

The duration of the DMLT course is 2 years, including theoretical and practical training.

The course is typically divided into four terms/semesters, with each semester focusing on specific aspects of laboratory techniques and procedures. The first semester of the course usually covers the basics of medical laboratory technology, such as laboratory safety, equipment handling, and specimen collection and processing. Subsequent semesters cover topics such as hematology, clinical biochemistry, microbiology, histopathology, and serology.

In addition to classroom instruction, the DMLT course also includes practical training in laboratory techniques and procedures. Students are required to complete a certain number of hours of practical training in different laboratory settings, such as hospitals, clinics, research institutes, and diagnostic laboratories.



## Career Opportunities After DMLT Course

The diploma holders can be recruited as

- Medical lab technicians in diagnostic lab settings
- Lab managers or consultants
- Healthcare administrators in nursing homes or hospitals
- Academic trainers in colleges or universities
- Medical writers for journals, news agencies, or websites
- Medical Technologists

MAM University aims to provide an empowering career path to low-income youth in the age group of 18-24 years, by helping them to enhance their work profiles through necessary skill-building, and providing guaranteed internships as part of their courses along with sufficient placement support within its network.

## Why DMLT after 12<sup>th</sup>?

Pursuing the DMLT course after 12<sup>th</sup> can be a smart career choice for students who are interested in the healthcare sector, want to start their careers relatively quickly, and have an aptitude for laboratory work. There are several reasons why students may choose to pursue the DMLT course after completing their 12<sup>th</sup> standard. Here are some of the key reasons:

- **Growing demand for medical laboratory technicians:**

With the increasing prevalence of diseases and a growing emphasis on preventive healthcare, there is a high demand for skilled medical laboratory technicians who can perform diagnostic tests accurately and efficiently. Pursuing the DMLT course after 12<sup>th</sup> can provide students with the necessary knowledge and practical training to meet this demand. The scope of the DMLT course is significant as the healthcare sector is growing and the demand for medical laboratory professionals is increasing.



- **Short course duration:**

The DMLT course is a relatively short-term course, typically spanning 1-2 years. This makes it an attractive option for students who want to start their careers in the healthcare sector without spending several years on education and training.

- **Good career prospects:**

After completing the DMLT course, students can pursue a career as medical laboratory technicians, laboratory supervisors, or laboratory managers in hospitals, clinics, research institutes, and diagnostic laboratories. The demand for skilled medical laboratory technicians is expected to continue growing, providing students with good career prospects and opportunities for growth and advancement.

- **Opportunity to work in the healthcare sector:**

The healthcare sector is one of the most critical and rapidly growing sectors globally. Pursuing the DMLT course after 12th can provide students with an opportunity to work in this sector and make a meaningful contribution to society.

In conclusion, the Diploma in Medical Laboratory Technology (DMLT) is a job-oriented course that prepares graduates to work in various healthcare settings. DMLT graduates gain the knowledge and skills necessary to perform laboratory tests, analyse and interpret results, and report their findings to physicians. The job opportunities available to DMLT graduates are diverse, ranging from medical lab technicians and supervisors to researchers and educators. Overall, pursuing a DMLT course after 12th can provide students with a rewarding career in the healthcare industry.