



# **Charutar Arogya Mandal**

## **Medical Technology Courses (Affiliated to Sardar Patel University)**

### ***PROSPECTUS for Postgraduate Courses***

- **Diploma in Medical Laboratory Technology (DMLT)**
- **M.Sc. - Medical Technology (Clinical Laboratory Technology)**

#### **Objective:**

To prepare health-care professionals of highest caliber in various diagnostic and therapeutic technologies used for the patient care with a strong foundation and complete orientation of relevant pre-and para-clinical subjects; so as to enable them to efficiently use / assist the specialist in using advanced medical technologies in a health-care set up.

#### **About the Institute:**

Smt. L.P. Patel Institute of Medical Laboratory Technology (earlier known as Institute of Diploma in Medical laboratory Technology), under the aegis of Charutar Arogya Mandal, Vallabh Vidyanagar, has been established at Shree Krishna Hospital & Pramukhswami Medical College, Karamsad to provide training, at its NABL-accredited clinical laboratories and NABH-accredited A.D.Gorwala Blood Bank, to the prospective candidates; who desire to pursue their post-B.Sc. career in the field of Medical diagnostics as Laboratory personnel in hospitals, clinical laboratories and Medical Research Centres.

The Institute, through its post-graduate programmes, DMLT & M.Sc.-Medical Technology (in Clinical Laboratory Technology), provides a unique opportunity to candidates to acquire not only the knowledge and skill in the laboratory techniques; but also to sharpen up the edge in the laboratory-based research by undertaking an in-house research project as a compulsory P.G.dissertation in M.Sc. Programme.

The Institute has also introduced graduate courses, B.Sc.-Medical Technology, to impart training to the students in a variety of specializations such as clinical laboratory technology, Imaging Technology, Respiratory care Technology and Operation theatre & Anaesthesia Technology.

Students are trained in the respective department at Shree Krishna Hospital; a well equipped tertiary care Hospital of Charutar Arogya Mandal.

### **Career Prospects:**

Health Care Professionals, well trained in various Medical Technologies, have an extremely challenging and rewarding career ahead. Since the use of advanced technologies in the diagnosis and management of patients has greatly increased globally in recent years; requirement of trained and skilled manpower to assist in various diagnostic and therapeutic technologies has also been growing rapidly. Students can very well be absorbed by a number of hospitals, diagnostic centers, research and biotechnology Institutions etc. with an attractive remuneration.

### **Duration, Seats available and Eligibility criteria for Admission:**

#### **Post-graduate Diploma in Medical Laboratory Technology (DMLT)**

Duration: 1 year

Seats: 60

B.Sc. with Medical Laboratory Technology (MLT)/ Microbiology / Biochemistry / Zoology / Botany / Biotechnology / Environmental Sciences / Industrial Microbiology / Genetics / Bioinformatics/ Home Science (F&N or F.Sc. & Q.C.) / Chemistry from any recognized university.

#### **M.Sc.-Medical Technology (Clinical Laboratory Technology)**

Duration: 2 years

Seats: 08

B.Sc. with Medical Laboratory Technology (MLT) / Microbiology / Bio Chemistry / Zoology / Botany / Bio Technology / Environmental Science / Genetics / Industrial Microbiology/ Life Sciences/Bioinformatics from any recognized university.

### **Medium of instruction:**

The medium of instruction shall be English.

## **Commencement of Academic Term:**

The academic session would usually commence from June; first term would be from June to November and second term from December to May or as decided by Sardar Patel University.

## **Working hours:**

Working hours of the course will be from 09.00 a.m to 05.00 p.m with one-hour lunch break. Candidates, however, may be posted during emergency duty hours as a part of their training under the supervision of senior personnel.

## **Payment of Tuition fee (INR):**

Course	1st Year	2nd Year	Total
<b>DMLT</b>	25,000	NA	25,000
<b>M.Sc. MT (CLT)</b>	58,000	58,000	1,16,000

Students admitted to the courses shall pay non-refundable fees annually at the beginning of each year as per the approved fee structure. All the students would undertake to abide by the schedule of payment of fees.

## **Refund of fees:**

Generally, no refund of the fees paid is permitted on account of withdrawal/cancellation of the admission. In case a candidate wishes to withdraw from the course after admission, but before the commencement of the course, she/he should apply at least 15 days prior to the date of commencement of classes. The refund of the fees, after deducting the applicable administrative charges, as decided by the competent authority, *is subject to filling of the seat by a wait-listed candidate.*

## **Accommodation:**

Shared accommodation at the hostels on campus is provided to limited students on payment basis. Admission to the course does not, however, guarantee hostel accommodation.

## **Medical Insurance:**

Students admitted would be covered under a suitable scheme of “Krupa Arogya Suraksha” for hospitalization at the Shree Krishna Hospital, Karamsad for a coverage of Rs. 5,000/- to Rs.10,000/- per annum or as decided from time to time.

## Internet Facilities:

Central Internet facilities are made available to all the students at college Library on payment of nominal charges.

## Discipline:

All the students are expected to maintain strict discipline on the campus and adhere to rules and regulations particularly in relation to their overall conduct, academic performance and attendance through out their academic tenure.

*“Ragging” is categorically banned in the institution as per the Judgment of Supreme Court of India. Any one indulging in ragging or any kind of indiscipline is likely to be punished appropriately, which may include expulsion from the institution.*

## Sports & Recreation:

Facilities for indoor and outdoor games are available on campus at the Student Activity Center along with a well-equipped gymnasium at nominal charges.

## Attendance:

Candidate shall be required to attend at least 75% of the Lectures and Practicals separately in each year.

## Course subjects, Examination System & Mark Distribution:

### DMLT

Paper No.	Subject	Marks		Total	Duration of Exam
		Internal	External		
I	Clinical Biochemistry	20	80	100	3 hours
II	Medical Microbiology	20	80	100	3 hours
III	Clinical Pathology & Blood Banking	20	80	100	3 hours
IV	Hematology & Histopathology	20	80	100	3 hours
	<b>Theory Total</b>			400	
	Practicals and Oral	60	240	300	
	<b>Grand Total</b>	<b>140</b>	<b>560</b>	<b>700</b>	

## M.Sc. - Medical Technology (Clinical Laboratory Technology)

Paper No.	Subject	Marks		Total	Duration of Exam
		Internal	External		
<b>M.Sc Part I (first year)</b>					
I	Basics of Clinical Pathology & Hematology	20	80	100	3 hours
II	General Biochemistry	20	80	100	3 hours
III	Microbiology Basic	20	80	100	3 hours
<i>There shall be no University Practical Exam at the end of the first Year.</i>					
<b>M.Sc Part II (second year)</b>					
IV	Clinical Hematology, Histopathology & Cytology	20	80	100	3 hours
V	Clinical Pathology (applied) & Blood Banking	20	80	100	3 hours
VI	Clinical Biochemistry	20	80	100	3 hours
VII	Systemic and clinical Microbiology	20	80	100	3 hours
<b>THEORY TOTAL</b>		<b>140</b>	<b>560</b>	<b>700</b>	<b>---</b>
<b>PRACTICAL &amp; ORAL</b>		<b>60</b>	<b>240</b>	<b>300</b>	<b>3 days</b>
<b>DISSERTATION VIVA</b>		<b>---</b>	<b>50</b>	<b>50</b>	<b>During practical exam</b>
<b>GRAND TOTAL</b>		<b>200</b>	<b>950</b>	<b>1050</b>	<b>---</b>

### Standard of passing:

To pass the DMLT/M.Sc. examination, a candidate must obtain at least **45% marks** (aggregate of external and internal) in each of the theory papers as well as in practical **separately**.

### Award of degree/diploma:

On successful completion of the programme, students will be awarded the degree of M.Sc.- Medical Technology (Clinical Laboratory Technology) or Diploma in Medical Laboratory Technology from Sardar Patel University, Vallabh Vidyanagar-388 120, Gujarat, India.

### Production of No Due certificate:

On successful completion of the course the students are required to submit a "No Due Certificate" from Library and other concerned department / Hostel, in case of residing at hostel, to enable them to receive the University mark sheet and other dues, if any, from the institute.

**How to apply:**

1. The Prospectus & Application form are available at the Student Section, Smt. L.P.Patel Institute of Medical Laboratory Technology. P.S. Medical College Campus, Karamsad – 388 325, Gujarat, India on payment of Rs. 300 by cash. (No additional payment is required at the time of submitting duly filled application form available with prospectus).

2. The Prospectus & Application form can also be downloaded from our website [www.charutarhealth.org](http://www.charutarhealth.org) The downloaded application form, duly filled up, must be submitted along with all the required documents and a D.D. of Rs 300 to be drawn in favour of “Charutar Arogya Mandal” payable at Anand.

3. Admission Procedure: Candidates should submit the prescribed application form duly completed along with attested photocopies of requisite documents. Selection of the candidates will be based on the performance in B.Sc. examination and Personal Interview at the institute.

Completed Application form should be submitted to:

The Principal,  
Smt. L.P.Patel Institute of Medical Laboratory Technology.  
P.S. Medical College Campus,  
Karamsad – 388 325,  
Gujarat, India

**Contact details:**

Phone: (02692) 222130,222567, ext.3500

Fax: (02692) 223466

E mail: [lpimlt@charutarhealth.org](mailto:lpimlt@charutarhealth.org)

website: [www.charutarhealth.org](http://www.charutarhealth.org)