

**SHRI A .N. PATEL P.G. INSTITUTE OF SCIENCE AND RESEARCH,
ANAND**

**Introducing
Diploma in Medical Laboratory Technology [DMLT]:
From academic year 2019-2020**

❖ Listed below are some of the major highlights of the course

Course Level	Diploma
Duration	1 year
Examination Type	Yearly System
Eligibility	Must have passed the B.Sc. Degree examination with Medical Laboratory Technology / Microbiology / Biochemistry / Zoology / Botany / Chemistry / Biotechnology / Environmental Science / Genetics / B.Sc. Home Science with Food and Nutrition as a principal subject.
Admission Process	Online admission through www.spuvvn.edu
Course Fee	24000/- per annum
Average Starting Salary	INR 1.5 – 3 lacs per annum
Top Recruiting Organizations'	Zydus Hospital, Apollo Hospital, Sterling Hospital, Sun Pharma, etc.
Top Recruiting Areas'	Clinical laboratories, hospitals, healthcare center, universities, research center, organ banks, medical equipment companies, pharmaceutical firms, and such.
Top Job Profiles	Clinical Laboratory technicians, Clinical Laboratory Assistant, Quality control & Quality assurance officers, Scientific officer, Research fellow, clinical research assistant and among others such.

Major components of study that form part of the **DMLT Syllabus** are:

Sr. No	Subject	Subject code	Teaching Hours
Main Subjects			
1.	Clinical Biochemistry	DMLT - 101	70
2.	Medical Microbiology	DMLT – 102	70
3.	Clinical Pathology & Blood Banking	DMLT - 103	60
4.	Hematology & Histopathology	DMLT – 104	60
5.	Practicals: Medical Laboratory Technology	DMLT- 105 (P)	120

- ❖ Such postgraduates of DMLT are actively involved in the following procedures:
 - Blood banking
 - Clinical Chemistry (chemical analysis of body fluids)
 - Hematology (blood related)
 - Immunology (study of immune system)
 - Microbiology (study of bacteria and other disease-carrying organisms)
 - Cytotechnology (study of human tissue)
 - Phlebotomy
 - Urine analysis
 - Coagulation
 - Parasitology
 - Blood Sample Matching
 - Drug Efficacy Tests
 - Serology.

- ❖ Successful Diploma-holders of the course perform duties such as:
 - Analyzing human body fluids like:
 1. Sputum
 2. Blood
 3. Urine
 4. Cerebrospinal fluid

5. Other body fluids etc.

- Assisting concerned doctor in the treatment of diseases and playing a vital role in alleviating them.
- Detecting the presence or absence of certain microorganisms in the patient's body.
- Helping physicians find out the root cause of the ailment by detecting and treating disease through samples.
- Handling, operating, and managing the running of complex electronic equipment.
- Operating computers and different types of microscopes used in the documentation of reports.
- Carrying out vital tests for deadly diseases like:
 - AIDS/HIV
 - Diabetes
 - Cancer and others.