Dr. DINESH KUMAR SHUKLA, CHIEF MANAGING TRUSTEE, PARA MEDICAL COUNCIL OF INDIA, OM NAGAR, AMETHI ROAD,MUSAFIRKHANA, DISTRICT- SULTANPUR, U.P, INDIA PIN-227813

PARAMEDICAL EDUCATION & TRAINING COUNCIL

DMLT: -

DMLT (Diploma in Medical Laboratory Technology), who are desirable to become a professional Laboratory Technician, Medical Technician & Medical Assistant etc. It educates the students about sampling, testing in a laboratory, maintaining the record of the patients.

- It deals with the chemical analysis of blood fluid like saliva, urine culture, blood cultures, and some culture of ions present in our body.
- It covers the analysis of invader microorganism in the body of organisms.
- The courses impart depth knowledge of the culture of the culture of fluids and ions of our body, and truly documentation helps the doctors find specific diseases of the patients.

Eligibility: -

DMLT also known as Diploma in Medical Laboratory Technology is a diploma course for the students. Its Eligibility criteria is-

- Passed out 10^{th} & 12^{th} with 50% marks in Physics, chemistry & biology.

Job Profile: -

- Assistant Lab Technician
- Head Lab Technician

Skills: -

- Knowledge of Chemistry – Including the safe use & disposal of Chemicals.
- Knowledge of biology & math.
- To be able to use a computer & main Software Packages Competently.

Course Details: -

DMLT	
1st Year	**2nd year**
Anatomy & Physiology	Biochemistry
Microbiology	Microbiology
Biochemistry	Pathology
Pathology	Social & preventive Medicine

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2nd YEAR

Biochemistry: -

1. Clinical Biochemistry
2. Body Water, Osmolarity And ionic Composition of Body Fluids
3. Nutrition
4. Kidney Function Test
5. Liver Function Tests
6. Spectrophotometry, Light Emission And Scattering Analytical Technique
7. Basic Principles of Radioactive Measurements
8. Electrochemistry
9. Electrophoresis
10. Chromatography And Mass Spectrometer

11. Clinical Enzymology
12. Immunochemical Techniques
13. Automation In Clinical Laboratory
14. Electrolytes And Blood Gases
15. Centrifugation
16. Primary And Secondary Standards
17. Primary And Secondary Standards
18. Radioactive Isotopes

Microbiology: -

1. Spirochaetes
2. Rickettsiaceae
3. Chlamydia
4. Mycoplasma And L-Forms
5. Spore Forming Anaerobes
6. Non-Sporing Anaerobes
7. Medical Parasitology
8. Entamoeba Histolytica And Other Rhizophodia
9. Plasmodium
10. Nematodes
11. Entrobius Vermicularis
12. Leishmaniasis
13. Nematodes Classification
14. Hook Work And Strongyloides
15. Trichuris Trichura
16. Trematodes
17. Cestodes
18. Echinococcus Granulosus

19. Tissue Nematodes
20. Stool Examination
21. Morphology And General Properties of Fungi
22. Laboratory Diagnosis Of Fungi
23. Morphology And General Properties of Viruses
24. Laboratory Diagnosis of Viral Infections
25. Immunity
26. Antigens
27. Immunoglobulins
28. Complement
29. Immunology Structure And Function of Immune System
30. Agglutination
31. Complement Fixation Test

32. Immunofluorescence
33. Eia And Ria
34. Autoimmunity And Autoimmune Diseases
35. Organ Transplantation

Pathology: -

- **Haematology**
  1. Transfusion Reactions
  2. Introduction To Anemia
  3. Microcytic Hypochromic Anemia
  4. Macrocytic Anemias
  5. Hemolytic Anemia
  6. Hemolytic Anemia Due To Abnormal Hemoglobin Synthesis
  7. Hemolytic Anemia Due To Abnormal Red Cell Enzymes
  8. Screening For Blood Transfusion Transmitted Diseases
  9. Anti Globulin Test
  10. Leukemia
  11. Haemostasis
  12. Autoimmune Hemolytic Anemia (AHA)

- **Histopathology**
  1. Procedures For DNA, RNA And Mitochondria Demonstration
  2. Special Processing
  3. ImmunohistoChemistry
  4. Electron Microscopy
  5. Museum Techniques
  6. Exfoliative Cytology
  7. Cytology: Specimen Collection & Storage
  8. Cytology: Specimen Processing & Staining
  9. Cytology: Disposal of Human Waste
  10. Cytology: Staining Methods
  11. Cytology Screening
  12. Quality Control in Cytology
  13. Cytomorphology
  14. Hormonal Assessment
  15. Fine Needle Aspiration Cytology
  16. Morphology pg Organs

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Social & Preventive Medicine: -

1. Health Education and Community Pharmacy
2. Important Terms and Definitions
3. Concept of Health
4. Nutrition and Health
5. Demography and Family Planning
6. First Aid
7. Environment and Health
8. Fundamental Principles of Microbiology
9. Communicable diseases
10. Non-Communicable diseases
11. Epidemiology
12.