



ALLIED HEALTH SCIENCE & PARAMEDICAL COURSES

What This Presentation Covers



Understanding Allied Health Science & Paramedical Education



Tamil Nadu Government Regulatory Framework & Official Portals



21 Undergraduate Degree Courses — Duration, Eligibility & Scope



Diploma & Certificate Level Paramedical Courses



Postgraduate Allied Health Science Programmes



Career Scope, Recruiters & How to Apply



What is Allied Health Science?

Allied Health Science (AHS) refers to a wide group of healthcare professions that support diagnosis, treatment, rehabilitation and prevention of disease — working alongside doctors and nurses as part of the clinical care team.



Diagnostic Sciences

Lab Technology, Radiography, Perfusion,
Neuro-Electrophysiology



Therapeutic Sciences

Physiotherapy, Occupational Therapy,
Respiratory Therapy



Nutrition & Rehabilitation

Clinical Nutrition, Prosthetics & Orthotics,
Speech-Language Pathology



What is a Paramedical Course?

Paramedical courses train professionals to provide urgent, technical and supportive care in hospitals, clinics and emergency settings — including nursing, pharmacy, emergency care, anaesthesia assistance and operation theatre support.



Certificate Courses

6 months – 1 year

Entry-level hospital support roles



Diploma Courses

1 – 2 years

Technician-level clinical roles



Degree (UG) Courses

3 – 4.5 years

Registered Allied Health Professional



Postgraduate (PG) Courses

2 years

Specialist / teaching / research roles



Tamil Nadu Government Framework



Directorate of Medical Education & Research (DME)

Regulates and inspects all Government & Government-quota paramedical / allied health institutions in Tamil Nadu.



Selection Committee, DME, Kilpauk, Chennai

Conducts centralised online counselling & merit-based seat allotment for degree, diploma & certificate courses.



Official Websites

www.tnmedicalselection.net | www.tnhealth.tn.gov.in
Affiliating University: The Tamil Nadu Dr. M.G.R. Medical University

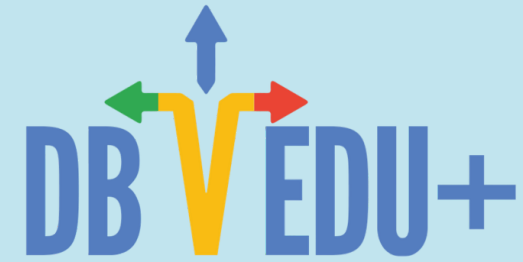
Note: Admission norms are updated periodically — always verify current-year eligibility, NEET requirement & duration on the official portal.



B.Sc. Nursing

Course 1 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

4 Years

+ 6 months internship

ELIGIBILITY

10+2 with Physics, Chemistry, Biology (PCB)

SCOPE & CAREER OPPORTUNITIES

- Staff Nurse in Govt./Private hospitals & primary health centres
- Community Health Nurse & Public Health programmes
- ICU, OT and Critical Care nursing specialisations
- Higher studies: M.Sc. Nursing, Nurse Practitioner roles
- Strong overseas demand (Gulf, UK, USA, Australia)

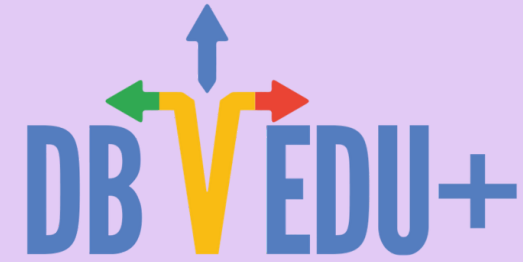
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B.Pharm (Bachelor of Pharmacy)

Course 2 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

4 Years

Full-time degree

ELIGIBILITY

10+2 with Physics, Chemistry &
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Registered Pharmacist in hospitals & retail/wholesale pharmacy
- Drug manufacturing, quality control & regulatory affairs
- Clinical research & pharmacovigilance
- Higher studies: M.Pharm, Pharm.D, MBA (Pharma Management)

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Pharm.D (Doctor of Pharmacy)

Course 3 of 21

Undergraduate Allied Health / Paramedical Degree

YEAR OF STUDY

6 Years

*3-Year lateral entry option available for
B.Pharm graduates*

ELIGIBILITY

10+2 with Physics, Chemistry &
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Clinical Pharmacist in hospital settings
- Medication therapy management & patient counselling
- Drug information centres & clinical research
- Eligible for registration as a Pharm.D professional with PCI

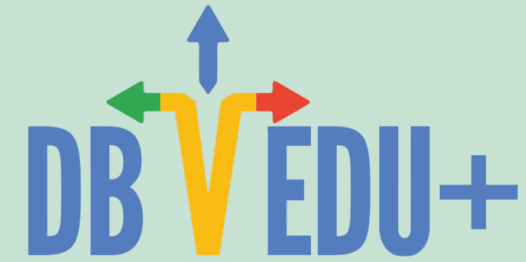
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B.P.T. (Bachelor of Physiotherapy)

Course 4 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

4.5 Years

4 Years academics + 6 months internship

ELIGIBILITY

10+2 with Physics, Chemistry, Biology

SCOPE & CAREER OPPORTUNITIES

- Physiotherapist in hospitals, sports & rehabilitation centres
- Orthopaedic, neuro, cardio-pulmonary & paediatric physiotherapy
- Private practice & wellness/sports-team consulting
- Higher studies: M.P.T. with specialisation

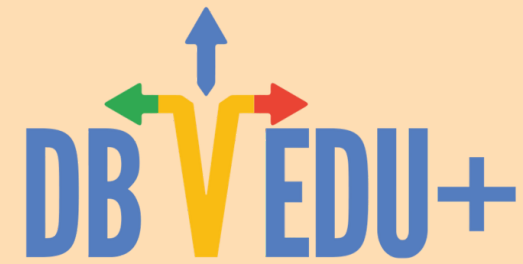
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B.A.S.L.P. (Audiology & Speech-Language Pathology)

Course 5 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

4 Years

Includes clinical postings

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Audiologist & Speech-Language Pathologist in hospitals
- Special schools, rehabilitation & early-intervention centres
- Hearing-aid & cochlear implant clinics
- Higher studies: M.A.S.L.P., research in communication disorders

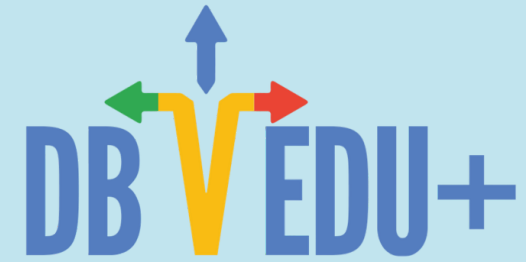
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B.P.O. (Bachelor of Prosthetics & Orthotics)

Course 6 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

4 Years

Includes clinical internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Design & fitting of artificial limbs and orthotic devices
- Rehabilitation centres, defence & disability care institutions
- Sports-injury bracing & paediatric rehabilitation support
- Higher studies: M.P.O., biomechanics research

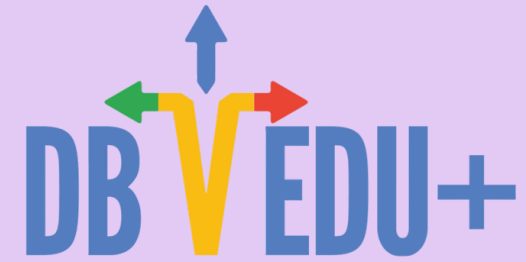
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B.Optom (Bachelor of Optometry)

Course 7 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

4 Years

Includes clinical training

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Vision testing, eye-care screening & contact-lens fitting
- Pre- and post-operative eye care support
- Employment in eye hospitals, optical chains & community eye-care
- Higher studies: M.Optom, specialisation in low vision care

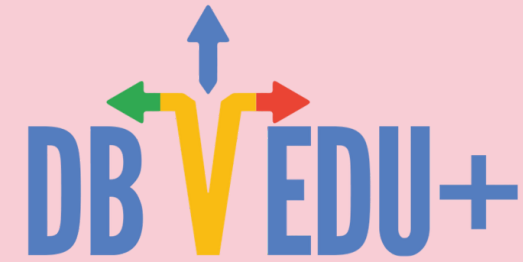
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B.Sc. Radiography & Imaging Technology

Course 8 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Radiographer/Technologist for X-Ray, CT, MRI & Ultrasound
- Diagnostic imaging centres & Govt./private hospitals
- Radiation safety & imaging quality assurance roles
- Higher studies: M.Sc. Radiography & Imaging Technology

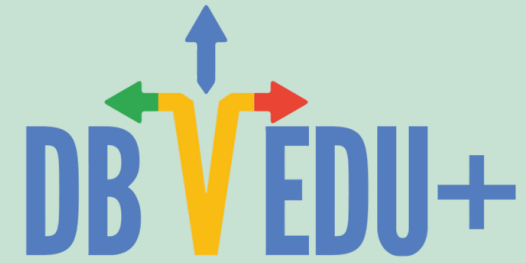
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B.Sc. Radiotherapy Technology

Course 9 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Radiotherapy Technologist in cancer-care centres
- Operating linear accelerators & radiotherapy planning support
- Oncology departments of Govt. medical colleges
- Higher studies: M.Sc. Radiotherapy Technology

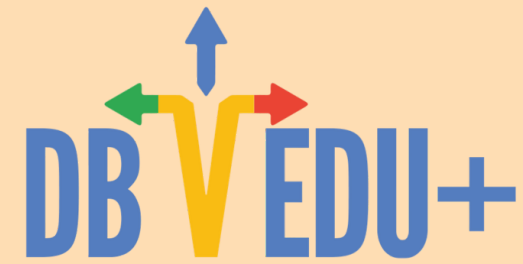
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B.Sc. Cardio-Pulmonary Perfusion Technology

Course 10 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Perfusionist operating heart-lung machines during cardiac surgery
- Cardiac surgical & cath-lab teams in Govt./private hospitals
- ECMO & advanced life-support technology roles
- High-demand, high-paying specialised allied health career

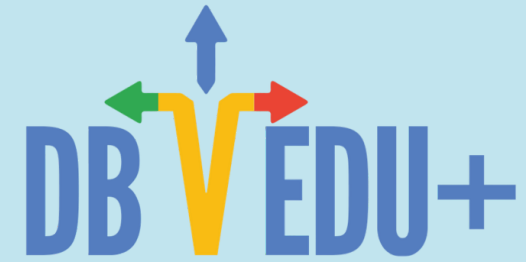
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B.Sc. Medical Laboratory Technology (MLT)

Course 11 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Medical Lab Technologist — pathology, biochemistry, microbiology
- Blood banks, diagnostic labs & research institutions
- Quality control in pharma & biotech laboratories
- Higher studies: M.Sc. MLT, specialisation in molecular diagnostics

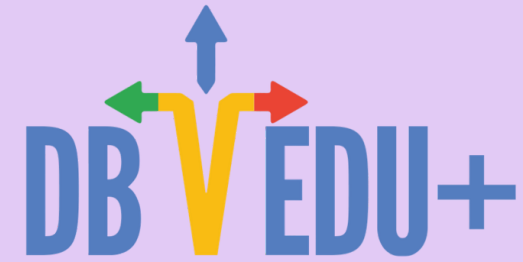
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B.Sc. Operation Theatre & Anaesthesia Technology

Course 12 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

- ### SCOPE & CAREER OPPORTUNITIES
- OT Technologist assisting surgeons & anaesthetists
 - Sterilisation, equipment handling & surgical safety
 - Employment across all surgical specialities in hospitals
 - Higher studies: M.Sc. Anaesthesia Technology

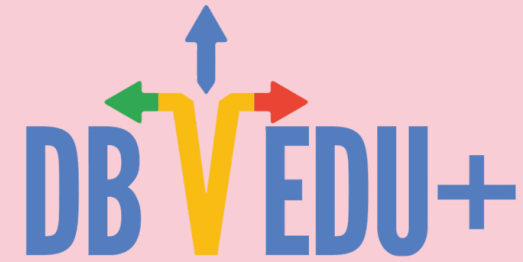
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B.Sc. Cardiac Technology

Course 13 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Cardiac Technologist for ECG, TMT, Echo & Cath-lab procedures
- Cardiology departments & cardiac-care hospitals
- Assisting in angiography & angioplasty procedures
- Higher studies: M.Sc. Cardiac Technology

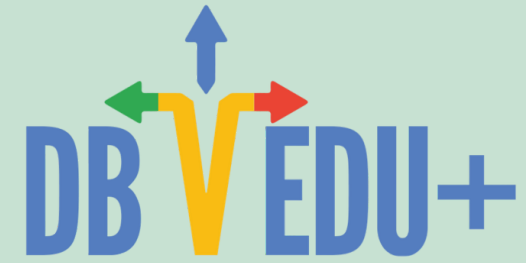
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B.Sc. Critical Care Technology

Course 14 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- ICU Technologist managing ventilators & monitoring equipment
- Critical/intensive care units of hospitals
- Emergency & trauma-care support teams
- Growing demand post-pandemic in critical care infrastructure

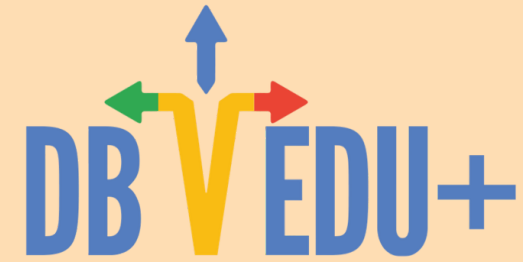
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B.Sc. Physician Assistant

Course 15 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Assisting physicians in diagnosis, minor procedures & rounds
- OPD/IPD support in multi-speciality hospitals
- Reduces physician workload in high-patient-volume settings
- Emerging role with rising hospital-sector demand

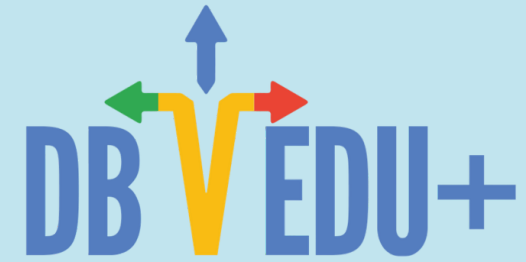
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B.Sc. Accident & Emergency Care Technology

Course 16 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Emergency Care Technologist in trauma & casualty units
- Ambulance & pre-hospital emergency response teams
- Disaster-management & first-response organisations
- Higher studies: M.Sc. Emergency Care Technology

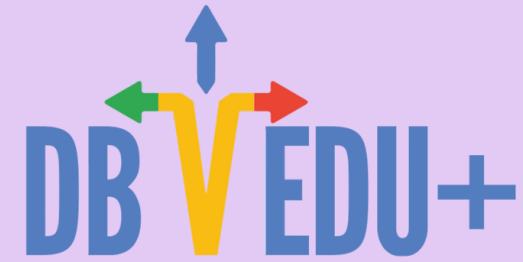
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B.Sc. Respiratory Therapy

Course 17 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Respiratory Therapist managing ventilators & oxygen therapy
- Pulmonology, ICU & neonatal care units
- Sleep-study labs & pulmonary rehabilitation centres
- High demand following rise in respiratory-care needs

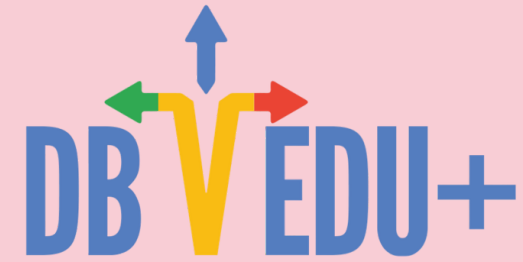
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B.O.T. (Bachelor of Occupational Therapy)

Course 18 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

4.5 Years

4 Years academics + 6 months internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Occupational Therapist for physical & developmental rehabilitation
- Paediatric, geriatric & mental-health occupational therapy
- Special schools & disability rehabilitation centres
- Higher studies: M.O.T. with clinical specialisation

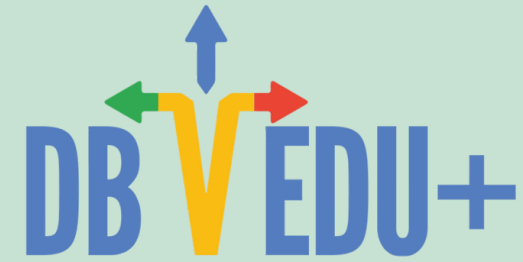
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B.Sc. Dialysis Technology

Course 19 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Dialysis Technologist operating haemodialysis machines
- Nephrology departments & dedicated dialysis centres
- Patient monitoring & sterilisation protocol management
- Steady demand due to rising kidney-care needs

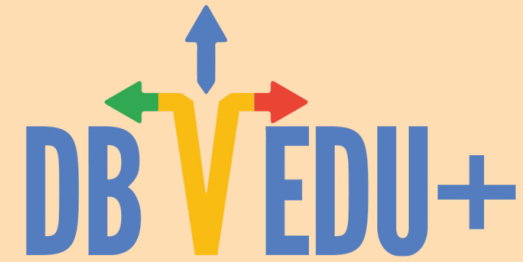
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B.Sc. Neuro Electrophysiology

Course 20 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Neuro-diagnostic Technologist for EEG, EMG & NCS tests
- Neurology & neurosurgery departments
- Sleep-disorder & epilepsy-monitoring units
- Niche, specialised & growing career field

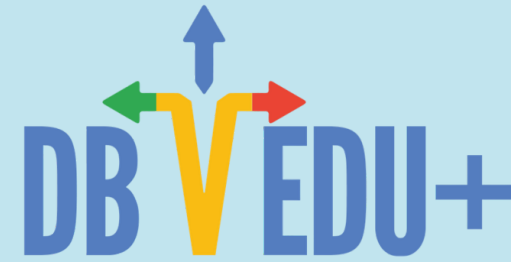
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B.Sc. Clinical Nutrition & Dietetics

Course 21 of 21

Undergraduate Allied Health / Paramedical Degree



YEAR OF STUDY

3 Years

+ 1 Year internship

ELIGIBILITY

10+2 with Physics, Chemistry,
Biology/Mathematics

SCOPE & CAREER OPPORTUNITIES

- Clinical Dietitian planning therapeutic diets in hospitals
- Corporate wellness, sports nutrition & fitness industry
- Community nutrition programmes & public health roles
- Higher studies: M.Sc. Clinical Nutrition / Dietetics

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Diploma & Certificate Paramedical Courses

Offered by TN Directorate of Medical Education for shorter, technician-level entry into healthcare

Diploma in Optometry

2 Years

Diploma in Medical Record Science

1 – 2 Years

Diploma in Pharmacy (D.Pharm)

2 Years

Diploma in General Nursing & Midwifery (DGNM)

3 Years + 6 months

Multi-Purpose Hospital Worker (MPHW)

1 Year

Certificate in Radiological Assistant

1 Year

Diploma in Medical Lab Technology (DMLT)

2 Years

Diploma in Ophthalmic / Optician Course

1 – 2 Years



Postgraduate Allied Health Science Courses

2-Year M.Sc. programmes for specialisation, teaching & research — open to relevant B.Sc. Allied Health graduates

M.Sc. Medical Laboratory Technology

M.Sc. Radiography & Imaging Technology

M.Sc. Cardio-Pulmonary Perfusion Technology

**M.Sc. Operation Theatre & Anaesthesia
Technology**

M.Sc. Renal Dialysis Technology

M.Sc. Cardiac Technology

M.Sc. Critical Care Technology

M.P.T. (Master of Physiotherapy)

**M.A.S.L.P. (Audiology & Speech-Language
Pathology)**

Career paths: Lecturer/Faculty in Allied Health colleges, Senior Technologist, Department Head, PhD & research roles.



Career Scope & Top Recruiters

₹20K – ₹60K

Govt. sector monthly starting salary

₹1.5 – 3 Lakh

Monthly salary potential in Gulf / UK roles

25,000+

Registered allied health seats across TN annually

Top Recruiters

Govt. Medical College Hospitals

Apollo Hospitals

Fortis Healthcare

Kauvery Hospital

Manipal Hospitals

Christian Medical College (CMC)

Defence Medical Services

Gulf & UK Hospital Networks



Admission Process & Official Websites

1

Notification released on the official DME portal with dates & eligibility

2

Online registration & application submission with required documents

3

Merit list prepared from Class 12 Physics, Chemistry, Biology marks

4

Online counselling — candidates lock college & course preferences

5

Seat allotment order issued & admission confirmed at the college

Official Website: www.tnmedicalselection.net | **Health Dept:** www.tnhealth.tn.gov.in



Thank You

Allied Health Science & Paramedical Education — Building Tamil Nadu's Healthcare Workforce