



SHS
UMT

School of Health Sciences

University of Management & Technology

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THINK BEYOND MBBS!

*Our Academic Programs open a
world of Opportunities for you*

About **School of Health Sciences**

- It is the biggest reasons you go to a University. To learn. To think. To broaden your perspective and gain the kind of hands-on experience and skills that will set you apart.
- At **SHS**, our degree programs are designed to take you *beyond learning*, and instead empower you to *bring that knowledge to life*

Undergraduate Programs

- Doctor of Physiotherapy
- Doctor of Nutrition Sciences
- BS Nutrition & Food Sciences
- BS Biomedical Laboratory Sciences
- BS Medical Imaging & Ultrasonography

Why Degree in Health Sciences from UMT ?

- Opportunity to adopt a professional career
- Internationally accepted degree
- World-wide demand
- Independent practice
- A Respected Professional degree
- Everyone would need your services during their lifetime!

Doctor of Physiotherapy

- Physiotherapists are Rehabilitation Professionals who work directly with the patients ensuring their recovery after surgery, injury, fracture or other acquired disabilities.
- These professionals help in improving the mobility, physical independence and quality of life of patients.

Doctor of Physiotherapy

- **DPT** is the Professional qualification required to work as a Physiotherapist.
- 5 year degree
- 10 semesters – 175 credit hours
- Course work includes:
 - Basic Science courses
 - Basic Medical Science courses
 - Physical Medicine courses
 - Clinical courses
 - Humanities courses
 - Practicals / Lab work (5th semester onwards)

Doctor of Physiotherapy

- **Entry Criteria**

- Minimum 50 marks in F.Sc Pre-medical or equivalent

- **Semester**

- 17 weeks – 16 weeks course work & 1 week for exams
- 6 courses / semester (18 credit hours)

- **Grading & Examinations**

- Class attendance 10 %
- Oral presentation 10 %
- Mid-term 30%
- Final Semester 50%

What do **Physiotherapists** Do?

Diagnose, Evaluate & Treat conditions such as:

- Back Pain
- Neck Pain
- Knee Pain
- Arthritis
- Sciatica
- Sports Injuries
- Sprains, Strains & Fractures
- Post-Surgery Recovery
- Frozen Shoulder
- Rehabilitation therapy after Stroke

Career Opportunities for Doctor of Physiotherapy graduates

- Public Sector Hospitals (Grade 17 scale jobs)
- Private Hospitals & Clinics
- Physical Medicine & Rehabilitation Centers
- Aid Agencies & NGOs
- Sports clubs & teams
- Research
- Academia
- Medical Technology Companies
- International job placement

DPT @ UMT ?

- Fully accredited Program
- Foreign qualified Faculty
- State of the Art Labs
- UMT Physiotherapy Centre
- UMT Medical Laboratories & Diagnostic Centre

Doctor of Nutrition Sciences

- Covering aspects of nutrition and health, this program focuses upon the role that nutrition plays in health, lifecycle, aging and disease.
- Students learn to make effective nutrition assessments, thus becoming experts in applying the principles of clinical nutrition to patient care in a variety of settings.
- Can further pursue their careers as Registered Dietitians (RD) – a prestigious certification from USA.

Doctor of Nutrition Sciences

- **DNS** is the Professional qualification required to work as a Nutritionist; and a necessary requirement to become a “**Registered Dietician**”.
- 5 year degree
- 10 semesters – 165 credit hours
- Course work includes:
 - Basic Science courses
 - Basic Medical Science courses
 - Nutrition & Food Technology courses
 - Clinical courses
 - Humanities & Management Science courses
 - Supervised Practical work (5th semester onwards)

Career Opportunities for Doctor of Nutrition Sciences graduates

- Clinical Nutritionist
- Dietitian
- Food Researcher and Scientist
- Production Manager
- Quality Control Manager
- Quality Assurance Officer in Food Processing
- Fitness Consultant
- Food Auditor
- Food Processing Unit Manager

BS Medical Laboratory Sciences

- Modern medicine owes its existence to accurate diagnosis – and this in turn is dependent upon highly specialized technical equipment.
- Medical Lab Scientists are highly trained professionals who work with state-of-the-art diagnostic laboratory machines that help the Physicians in reaching an accurate diagnosis.

BS Medical Laboratory Sciences

- They not only perform laboratory procedures including very sophisticated analyses, but also evaluate/interpret the results, integrate data, problem solve, consult, conduct research and develop new test methods.

BS Medical Laboratory Sciences

- MLS work as healthcare detectives – uncovering and providing critical patient information from laboratory analyses. They also monitor testing quality and run QA tests.
- MLS are trained to use sophisticated biomedical instrumentation and technology, computers, and methods requiring manual dexterity to perform laboratory testing on blood and body fluids.

BS Medical Laboratory Sciences

- The accurate laboratory data that they generate is needed to aid in detecting malicious diseases such as cancer, heart attacks, diabetes, infectious mononucleosis, and identification of bacteria or viruses that cause infections, as well as in detecting drugs of abuse.

BS Medical Laboratory Sciences

- Laboratory testing encompasses such disciplines as:
 - Clinical chemistry
 - Hematology
 - Immunology
 - Immunohematology
 - Microbiology
 - Histopathology
 - Molecular biology

BS Medical Laboratory Sciences

- **BS-MLS** is the Professional qualification required to work as a qualified Medical Laboratory Scientist.
- 4 year degree
- 8 semesters – 132 credit hours
- Course work includes:
 - Basic Science courses
 - Specialized Laboratory courses
 - Medical Science courses
 - Humanities & Management Science courses
 - Supervised Practical work

BS Medical Laboratory Sciences

- Clinical Lab Scientist
- Laboratory Manager
- Academia
- Research
- Healthcare organizations
- Health administration
- Medical technology industry
- Pharmaceutical Industry
- Lab equipment and reagent suppliers

Future academic options

BS Medical Laboratory Sciences

- MS / M.Phil degrees leading to PhD
- MS / M.Phil in specialized subjects such as:
Immunology, Clinical Chemistry, Genetics
- MBA – for administration or business careers
- MPH – for research or academic careers

BS Medical Imaging & Ultrasonography

- These professionals work in Diagnostic Radiology, Radiation Therapy and Nuclear Medicine Departments of Hospitals and Academic Research Centers
- Highly specialized professionals working with patients undergoing procedures such as interventional angiography, computed tomography, magnetic resonance imaging, doppler scanning and ultrasonography.

BS Medical Imaging & Ultrasonography

- **BS-MI&USG** work as a qualified Medical Imaging & USG professionals in Radiology Departments of major hospitals & diagnostic centers.
- 4 year degree
- 8 semesters – 132 credit hours
- Course work includes:
 - Basic courses
 - Specialized Radiation Sciences courses
 - Basic Medical Science courses
 - Medical Instrumentation courses
 - Humanities & Management Science courses
 - Supervised Practical work

Where do they work?

BS Medical Imaging & Ultrasonography

- Diagnostic Radiology Departments
- Radiation Therapy & Cancer Treatment
- Nuclear Medicine
- Research & Academia
- Medical Equipment makers & service providers
- Biomedical Engineering companies
- Hospital Equipment Maintenance Departments

BS Nutrition & Food Sciences

- They work as Nutrition experts, extending their expertise in a number of healthcare settings – especially in maintaining and promoting health in chronic medical patients – such as Diabetes, Heart Disease, Arthritis, Auto-immune diseases, Chronic Infections such as Hepatitis B & C, and obesity to name a few.

BS Nutrition & Food Sciences

- These professionals also work with otherwise healthy individuals but needing special dietary requirements – such as under-weight babies, pregnant mothers, under-nourished children, and children with special needs.

BS Nutrition & Food Sciences

- **BS-NFS** work as a Nutritionists &/or Food Scientists in healthcare facilities and industry.
- 4 year degree
- 8 semesters – 132 credit hours
- Course work includes:
 - Basic courses
 - Specialized Food Technology courses
 - Nutrition Science courses
 - Laboratory & QA courses
 - Humanities & Management Science courses
 - Supervised Practical work

Career opportunities

BS Nutrition & Food Sciences

- Production Manager in Food & Beverages Industry
- Quality Control Manager
- Quality Assurance Officer in Food Processing
- Fitness Consultant
- Food Auditor
- Food Processing Unit Manager
- Culinary expert
- Social welfare
- Special children
- Gynecology & Obstetrics Clinics
- Fitness centers



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Educating the Next Generation of Health Professionals