







ACHIEVERS
IN ALLIED HEALTH

SHARDA SCHOOL OF ALLIED HEALTH SCIENCES





# 28 YEARS OF AN UNPRECEDENTED JOURNEY OF EXCELLENCE.

Sharda Group is a multi-million dollar conglomerate with operations in India & Uzbekistan and plans to expand further to the other CIS countries and Africa. The Group is on a vertical tangent of growth spearheaded by **Mr. PK Gupta** who lives by the treatise - It takes a vision to change the game.



SHARDA GROUP

OF INSTITUTIONS (SGI)

**RISHAV** 

**SHELTERS** 

SHARDA

GROUP























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Sharda University

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Greater Noida. Hub of education in Delhi-NCR	
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Sharda University over the years has become one of the leading centres of education, research and innovation in Delhi NCR region. Established through an act of the State Legislature of Uttar Pradesh (14 of 2009), Sharda University offers over 130+ UGC recognised programmes in various disciplines. Sharda University has recently been accredited A+ by NAAC which puts it among 5% of select higher education institutions in India.

Being the only global University in India that has seen students from 95+ countries experience world-class facilities, and having 259+ global academic partnerships. Sharda University offers a truly international learning environment & produces achievers across the globe. That's why it is said,

"The World is Here, Where are You?"

#### **PRESTIGIOUS RECOGNITIONS & ACCREDITATIONS**









**PHARMACY RANK** 62



PLACED AT 87th POSITION **IN UNIVERSITY CATEGORY** 



**MANAGEMENT RANK BAND 101-125** 



**ENGINEERING RANK BAND 150-200** 





















Continuing its legacy as a world-class institution, Sharda University has earned Membership status with ASIC, UK for its commendable areas of operation.





#### SHARDA-IIC is listed among top 10 Universities FOR THE NORTH REGION (NRO)

WITH 4-STAR RATING FOR THE YEAR 2020-21















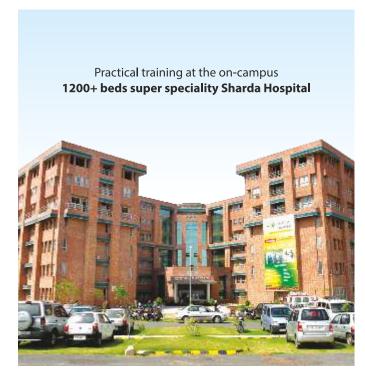


### SHARDA SCHOOL OF ALLIED HEALTH SCIENCES

Established with an aim of developing proficient healthcare professionals, the Sharda School of Allied Health Sciences has evolved as one of the leading schools in Delhi NCR. The School is committed to provide a transformative learning experience in a collaborative and diverse environment. The School's advanced learning equipment; focus on research and hi-tech laboratories, give students a world class learning experience with exposure to recent advances in the field.

#### **KEY FACTS & FIGURES**

- » Offering 11 programmes pertaining to Allied Health areas.
- » Early exposure to the hospital environment with hands-on training to all SSAHS students and internship.
- » 26% students are international from various different countries.
- » Students exposed to cross cultural skills in a globalized world.
- » Well qualified and highly experienced faculty with 1:25 ratio (2020-2021)
- » Well-equipped Library with large number of books, journals, online journals, e-books and e-Learning facilities.
- » Final year students of all courses are given training on resume making, communication skills, personality development and interview tips.
- » Regular student visits to Hospitals and other employable centers.
- » Involvement of students and faculty in regional community services.
- » Focus on participation in various allied health competitions across the globe



#### **PLACEMENT PARTNERS**















GE Healthcare









- » ExerciseTherapy Lab
- » Electrotherapy Lab
- » Sports Physiology Lab
- » Biomechanics Lab
- » Optometry Lab
- » Nutrition and Dietetics Lab

» Forensic Science Lab

» BMLT Lab







# Faculty That's Truly Inspiring

Sharda School of Allied Health Sciences faculty comprises of academicians from India's leading universities, as well as leading professionals from the industry. The School also regularly organises guest lectures to give new insights into what's happening in the allied health world.





The aim of the School is to prepare highly skilled human resource in the areas of allied health, research and technology that not only get good employment opportunities but could also make a major contribution in the healthcare industry.

Dr. Karuna Singh

Dean, Sharda School of Allied Health Sciences M.Sc., UGC-NET, Ph.D.

18 years of experience in Institution building, teaching, research and administrative work. More than 30 publications in National and International Journals and contributed chapters in Forensic books. Recipient of Excellence Award from Shri. Veerappa Moily, then Law Minister, G.O.I. Served as a member of the UGC Committee for UGC-NET-JRF Examinations. Imparted training to Police Officers in 15+ States on Road Accident Investigation.



Prof. (Dr.) Shally Lukose (Professor & Director IQAC) M.Sc., Ph.D.

17 years of experience in Institution building, teaching, research and administrative work. More than 30 publications in National and International Journals and contributed chapters in Forensic books.



Prof. (Dr.) Mayank Shukla MPT, Ph.D.

Area of interest: Actinotherapy, Cardiopulmonary

Physiotherapy Experience: More than 18 years



Prof. (Dr.) Prashant Agarwal M.Sc, UGC-NET, Ph.D.

Area of interest: Forensic Toxicology, Forensic Chemistry, Fingerprints, CSI





Prof. (Dr.) Kunal Kishor

M.Sc, M.Phill, SET, Ph.D.

Area of interest: Medical Microbiology, Bacteriology, Medicinal plant based research, Drug resistance, Plantmicrobe interaction. Experience:18 years



Prof. (Dr.) Rahul Saxena

M.Sc, Ph.D. (Medical Biochemistry); MNAMS; MIAG; MACBI; MIABS

Area of interest: Molecular biology, Clinical Biochemistry, Genomics, Proteomics, Endocrinology

Experience: More than 15 years of Teaching and Research



Prof. (Dr.) Gaurav Kaushik

M.Sc., Ph.D. (AIIMS, New Delhi)

Area of interest: Pathology (Hematology), Molecular Biology, Infectious Diseases, Research Methodology

Experience: 14 years



Dr. Archana Khanna (Associate Professor and Programme Incharge)

MPT (Sports), Ph.D. (Sports)

Area of interest: Exercise Therapy, Exercise Physiology, Biomechanics and Anthropometry Experience: 11 years



**Dr. Lalit Pratap Chandravanshi (Associate Professor)** Ph.D (Toxicology)

Area of interest: Forensic Toxicology, Forensic Biology

Experience: 10 years



Mr. Ajit Pal Singh (Assistant Professor)

BMLT, MMLT, Ph.D. (Pursuing)

Area of Interest: Medical Lab Technology, Pathology, Transfusion Medicine, Microbiology, Biochemistry, Elisa Testing, Platelet Separation (apheresis), Component Separation, Quality Control, Research and Publications.



Dr. Suyash Saxena (Assistant Professor)

M.Sc. (Medical Biochemistry), Ph.D. (Medical **Biochemistry**)

Area of Interest: life style disorders, Nutritional disorders and autoimmune diseases Experience: 12+ years in teaching



Dr. Rachna (Assistant Professor) M.Sc. (MLT), Ph.D. (MLT)

Area of interest: Medical Lab Technology, Microbiology, Pathology, Biochemistry, Blood Bank

Experience: 12 years of Industrial Experience



Dr. Vandana Singh (Assistant Professor)

Ph.D. (Microbiology)

Area of interest: Microbiology and Nanotechnology

Experience: More than 11 years



Dr. Ratnakar Shukla (Assistant Professor)

M.Sc. (Biochemistry), Ph.D.

Area of interest: Gut microbiota, Toll like receptors, Gall bladder cancer, microRNA

Experience: More than 11 years of research experience



Ms. Meenakshi Verma (Assistant Professor)

MPT (Neurology), Ph.D. (Pursuing)

Area of Interest: Research methodology, Adult and Pediatric Neuro Rehabilitation, Management and

Administrative. Experience: More than 11 years

Mr. Himanshu Yadav



Ms. Rita Sharma (Assistant Professor)

MPT (Orthopaedics), Ph.D. (Pursuing)

Area of interest: Musculoskeletal disorders Research Experience: 9 years



M.Sc. (Nutrition & Dietetics), Ph.D. (Pursuing)

Area of interest: Therapeutic Nutrition, Diet counseling, body composition, energy requirement, nutritional

Experience: 9 years teaching and clinical experience



M.Sc. Forensic Science (UGC NET Qualified) Area of Specialization: Forensic Ballistics and Forensic

Toxicology

Year of Experience: 3 Years 2 Months



Ms. Mayuri Rastogi (Assistant Professor)



Ms. Bushra Khan (Assistant Professor)

M.Sc. (MIT) Radiography, Ph.D. (Pursuing)

Area of interest: Artificial intelligence in Imaging, Fiber Tracking, Radiography and Medical Physics

Experience: 8 years



Dr. Poonam Kalsi (Assistant Professor)

M.Sc. (Medical Anatomy)

Area of Interest: Histology, Embryology, Neuroanatomy Experience: 7 years



Ms Ramsha Ahmed, Assistant Professor, **Physiotherapy** 

BPT, MPT (Musculoskeletal)

Area of Specialisation: Musculoskeletal Rehabilitation Area of Experience: 9 months (Clinical)



Ms. Pallavi Sharma Master's of Science in Cardiac care Area of Specialisation: Clinical procedures (ECG, Echocardiography, Stress Echocardiography, TMT) Year of Experience: 6 months



Dr. Sumedha Rabra (Assistant Professor) MPT (Cardio-Pulmonary), Ph.D. (Pursuing) Area of Interest: Cardio-pulmonary, Management and Administration, Rehabilitation, Research Methodology Experience: 6 years



Dr. Nalini Trivedi Ph.D. (Human Nutrition) Area of Specialization: Clinical Nutrition and Dietetics Year of Experience: 3 years



Ph.D., Post Doctorate Area of interest: Neurophysiology and Anatomy for Research, Biochemistry & Molecular Biology for Teaching Experience: 6 years

Dr. Rajesh Yadav (Assistant Professor)



Dr. Rohit Kumar Tiwari, Assistant Professor, Clinical Research M.Sc., PhD Area of Specialization: Molecular Immunology, Immunooncology, Natural anti-cancer compounds



Dr. Aditi Rikhari, Assistant Professor, Nutrition & **Dietetics** M.Sc., PhD



Area of Specialization: Food Products Development and Clinical Nutrition Area of Experience: 3 years 8 months (Research and Teaching)



Ms. Zoobiya Islam (Assistant Professor) M.Sc. (Food Science and Technology), Ph.D. (Pursuing) Area of interest: Food product and development, food

Year of Research & Teaching Experience: 08 Years



Mr. Vishal Sharma (Assistant Professor) MPT (Neurology) Area of interest: Neurological rehabilitation Experience: 5 years



Ms. Christina Zothanpari Chawngthu M.Sc. (Medical Physiology) Area of Specialization: Medical Physiology Year of Experience: Fresher

Dr. Vandana Prasad (Assistant Professor)

Experience: 5 years (Teaching and Industrial)

safety,food fortification



Ms. Kriti Sachan (Assistant Professor) MPT (Musculoskeletal) Area of interest: Musculoskeletal Disorders Experience: 4 years



Ms. Ishika Bhardwaj (Assistant Professor) M.Sc. (Forensic Science), Ph.D. (Pursuing) Area of Interest: Forensic Psychology, Crime Scene Investigation Experience: More than 3 years



Mr. Ujjwal Srivastava (Assistant Professor) M.Sc. (Microbiology), Ph.D. (Pursuing) Area of interest: Bacteriology, Anti microbial properties Experience: 3.6 years



Area of Interest: Nanotechnology, Fingerprint Examination Experience: 3 years research and 1 year of teaching experience



Dr. Hamid Reza Mogaddasi (Assistant Professor) MBBS, M.Sc, Ph.D. (Pursuing) Area of interest: Research, clinical pharmacology, chemotherapy, cardiology Experience: 3 years



Ms. Anjali Rawat, Assistant Professor, Optometry Area of Specialisation: low vision, contact lens, paediatric optometry Year of Experience: 2 years



Ms. Sanjjana Koranga, Assistant Professor, Anatomy Area of Specialization: Medical anatomy Years of experience: 6 months



Mr. Gaurav Kumar Singh, Assistant Professor M.Sc., Ph.D. Area of Specialization: Physical Anthropology, Material Science Year of Experience: 5.8 Years



Ms. Hiba (Assistant Professor) M.Sc. (Medical Physiology) Area of interest: Research in neurophysiology Experience: 2.5 Years



Ms. Rahamatun Nisha (Assistant Professor) M.Sc. (Medical Physiology), Ph.D. (Pursuing) Area of Interest: Lifestyle diseases, Sports Physiology, Research, Teaching, Experience: 2 years



Mr. Manish Kumar Sah (Assistant Professor) **Master of Optometry** Area of interest: Academic and Research Contact lens Experience: 2 years



Ms. Komal Sharma (Assistant Professor)
M.Sc. (Optometry)
Area of Interest: Binocular Vision and Low Vision
Experience: 1.8 years



Mr. Amit Pratap Singh Chouhan (Assistant Professor)
M.Sc. (Radio-Imaging Technology), Ph.D. (Pursuing)
Area of Interest: Radiology, Diagnostic Radiology,
Artificial Intelligence
Experience: 1 year 6 Months



Ms. Shivpriya Sharma (Assistant Professor)
MPT (Cardiopulmonary)
Area of interest: Cardiopulmonary Rehabilitation,
Exercise physiology, Exercise therapy
Experience: 1 year



Mr. Adil Ali Ansari (Assistant Professor)
MPT (Sports), Ph.D. (Pursuing)
Area of interest: Sports Medicine, Sports Rehabilitation,
Injury Management & Prevention, Strength &
Conditioning
Experience: 1 year



Ms. Sana Kanwal (Assistant Professor)
M.Sc. (MIT) Radiography
Area of Interest: Teaching, Research
Experience: 10 months



Dr. Apoorwa Tiwari (Assistant Professor)
MPT
Area of interest: Stroke rehabilitation.
Experience: 2 months



Mr. Ankush Verma (Assistant Professor)
M.Sc. (Medical Imaging Technology)
Area of Interest: Oncology and Artificial intelligence
Experience: 1 month



Ms. Akansha (Assistant Professor)
M.Sc. (Food Science and Nutrition), Ph.D. (Thesis Submitted)
Area of Interest: Food testing and its analysis.
Experience: Fresher



Mr. Najmus Saquib (Tutor)
B.Sc. (Cardiology Laboratory Techniques)
Area of interest: Cath Lab
Experience: 5 years



Dr. Baldev Negi (PT)
MPT (Sports), Ph.D. (Pursuing)
Area of Specialization: Sports Physiotherapy,
Rehabilitation
Year of Experience: Clinical Experience: 1 Year
Teaching / Academic Experience: More than 2 years



Mr. Mohd. Arfat (Tutor)
BPT
Area of interest: Cardiopulmonary Rehabilitation,
Exercise physiology, Exercise therapy
Experience: 2 years

Dr. Das Anamika, Assistant Professor-Forensic



Mr. Amit, Tutor, Physiotherapy BPT Neurology, Neurodynamics, Rehabilitation Year of Experience: 2 years



Science
M.Sc., PhD
Area of Specialization: Forensic Questioned Documents
Examination
Years of Experience: 3 years Research experience



**Dr. Dharmendra Kumar Dubey M.Sc. Ph.D.**Area of Specialization: Bio Arthritis, Data analysis Years of Experience: More than 11 years



Mr. Ankur Vashishtha
B.Sc. MLT, M.Sc. Medical Microbiology, Ph.D Medical
Microbiology\*
Area of Specialization: Microbiology
Year of Experience: 4 Years 8 Months



Ms. Anjali Malik (Assistant Professor)
M.Sc. Forensic Science, Ph.D. (Pursuing)
Area of Interest: Forensic Biology & Serology, Forensic Toxicology
Experience: More than 4 years

## FOCUS ON ORGANISING MAXIMUM WORKSHOP/SEMINARS



Gait Analysis Workshop organised at APJ Auditorium on 20 July 2022 -Inauration ceremony with dignitaries



Workshop on DNA extraction



Demonstration of Live Models by students



Physiotherapy students participating in Cultural Programme



International Forensic Forum, 2023 organized by Department of Forensic Science



Eye checkup of drivers during Road Safety Week



2nd International Forensic Forum organized by SSAHS



Students participating in BLS and ACLS training programme



Ph.D. Scholar receiving first prize in National Conference



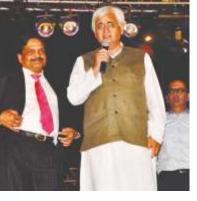
"Yes! We Can End Tuberculosis (TB)" on the occasion of World Tuberculosis Day 2023



Community connect program by SSAHS



World Physiotherapy Day 2022, celebrated in the Dhanvantari auditorium, MS of Sharda Hospital Prof Dr Gadpayle graced the occasion















# **CAMPUS LIFE**







# @SHARDA

















### ALLIED HEALTH PROGRAMMES DESIGNED FOR SUCCESS

Sharda School of Allied Health Sciences programmes are designed to prepare students to excel in the health care sector. From the moment students arrive, they are considered members of the healthcare community and are groomed to meet the expectations and demands of the industry.

### PROGRAMMES OFFERED BY SHARDA SCHOOL OF ALLIED HEALTH SCIENCES

• Bachelor of Physiotherapy 4.5 years • Bachelor of Science in Radiological Imaging Techniques (Radiology/CT/MRI) 3.5 years • Bachelor of Science in Medical Laboratory Technology (Techniques) 3.5 years • Bachelor of Science (Cardiovascular Technology) 4 years • Bachelor of Science (Forensic Science) 3 years/ 4 years • Bachelor of Optometry 4 years • Bachelor of Science (Nutrition & Dietetics) 3 years/4 years • Master of Physiotherapy 2 years - Specialization in Orthopaedics | Neurology | Cardiopulmonary | Sports • Master of Science (Clinical Research) 2 years

• Master of Science (Forensic Science) 2 years

-Specialization in Forensic Chemical Sciences | Forensic Biological Sciences | Forensic Physical Sciences

• Master of Science (Nutrition & Dietetics) 2 years

- Specialization in Clinical Nutrition | Food Science and Nutrition | Public Health Nutrition

Ph.D. in Allied Sciences (Full Time/Part Time)

Min. 3 years





APPROVED BY UNIVERSITY GRANTS COMMISSION



Physiotherapy is a science that helps improve movement dysfunction, and promote functions of the human body and optimal health. This involves assessment, diagnosis and treatment of disease and disability through physical means. Physiotherapy uses physical agents like exercise, massage and other modalities for providing treatment to those patients whose movement and function are threatened by ageing, injury, disease or environmental factors.

Bachelor of Physiotherapy (BPT) is a four-and-half-year undergraduate programme designed to introduce students to the fundamentals of rehabilitative medicine. The programme concentrates on imparting practical expertise on the subjects including Exercise Therapy Electrotherapy Radiology & Imaging Technology Orthopedics & Traumatology and General Medicine.

The aim of the programme is to train students at an advanced level about core physiotherapeutic skills such as therapeutic exercises and application of electro-physical modalities which can cure a range of diseases and disabilities related to back spine neck shoulder and legs.

The programme emphasizes on learning to improve movement dysfunction and promote functions of the human body and optimal health. In addition the programme s practical sessions ensure that students get exposure to accurate diagnosis and treatment of disease and disability.

After completion of the programme aspirants are enrolled for a and enhance their learning.

#### **Eligibility Criteria:**

Sr. Secondary (10+2) PCB or Life Sciences as one of the subjects with minimum 60% marks.

#### Scope:

Today there are only around 5,000 qualified physiotherapists in India? Yet, it is estimated that one physiotherapist is required for every 10,000 people, and the demand for trained professionals is only growing with time.

After completing physiotherapy, the candidate can work in hospitals, private clinics, physiotherapy equipment manufacturers, fitness centres and so on.

Opportunities exist as:

- Physiotherapist
- Researcher
- Osteopath
- Therapy Manager
- · Sports Physio Rehabilitator
- Lecturer
- Physical Healthcare Consultant

FIRST	YEAR	SECON	D YEAR	THIRE	YEAR	FOURTH YEAR	
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI	SEMESTER VII	SEMESTER VIII
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Human Anatomy-l	<b>2.1</b> Human Anatomy-ll	<b>3.1</b> Pathology	<b>4.1</b> Exercise Therapy	<b>5.1</b> General Medicine including Endocrinology, Paediatrics & Geriatrics	<b>6.1</b> Obstetrics & Gynaecology	<b>7.1</b> Physiotherapy in Orthopedics & Sports medicine	<b>8.1</b> Physiotherapy in Cardiopulmonary Sciences (lymphatic system)
<b>1.2</b> Human Physiology-l	<b>2.2</b> Human Physiology-II	<b>3.2</b> Pharmacology	<b>4.2</b> Thermotherapy & Actinotherapy	<b>5.2</b> General Surgery including ENT, burns & plastic surgery	<b>6.2</b> Cardiovascular Science Including Lymphatic system		<b>8.2</b> Physiotherapy in Obstetrics, and Gynaecology
<b>1.3</b> Biochemistry	<b>2.3</b> Principles of Biophysical Agents	<b>3.3</b> Electrotherapy	<b>4.3</b> Medical Law, and Ethics	<b>5.3</b> Orthopaedics, and Traumatology	<b>6.3</b> Respiratory System	<b>7.3</b> Physiotherapy in General Medicine and General Surgery	<b>8.3</b> Community Based Rehabilitation
<b>1.4</b> Psychology & Sociology	<b>2.4</b> Fundamentals of Exercise Science	<b>3.4</b> Fundamentals of Biomechanics and Exercise Therapy	<b>4.4</b> Ergonomics	<b>5.4</b> Clinical Neurology & Psychiatry	<b>6.4</b> Environmental health, and health Promotion	<b>7.4</b> Research Based Learning-III	<b>8.4</b> Advanced Rehabilitation Aids and Appliances
1.5 Basic computer & Information English Communication and soft skills	<b>2.5</b> Nutrition	<b>3.5</b> Anthropometry	<b>4.5</b> Microbiology	<b>5.5</b> Applied Biomechanics & Kinesiology	<b>6.5</b> Community Medicine	<b>7.5</b> Complementary Medicine	<b>8.5</b> Teamwork and interpersonal communication
<b>1.6</b> First aid, & CPR	<b>2.6</b> OPE	<b>3.6</b> Research Methodology and Statistics	<b>4.6</b> Quality Assurance in Clinics	<b>5.6</b> Faculty Student Industry Connect	<b>6.6</b> Interpretation of Diagnostic imaging technology	<b>7.6</b> Occupational Health	<b>8.6</b> ICU PT; PT in Paediatrics; Geriatric PT; H and Rehab
			<b>4.7</b> Open Elective	<b>5.7</b> Research Based Learning-l	<b>6.7</b> Open elective		



Radiology is the branch or specialty of Medicine that deals with the study and application of Imaging Technology like x-ray and Radiation to Diagnosing and treating diseases. Radiology Technologists are Health Care Professional who perform diagnostic Imaging Procedures and are responsible for accurately positioning patients and ensuring that a quality diagnostic image is produced. Radiology Technicians produce clear and accurate images of the body that enable physicians to diagnose and treat medical conditions that would otherwise be difficult to document. Radiology Technicians operate sophisticated equipment that includes X-ray, Mammography, and Computerized Axial Tomography (CAT) and Position Emission Tomography (PET) scan devices. Because these techniques involve the use of radiation, adequate training and understanding of radiation as well as safety and protection measures is highly important.

The programme is designed to integrate academic and clinical education so that radiotechnologist completing the programme of study will be able to analyze, evaluate and innovate in the clinical setting and provide the best patient care.

#### **Programme Objectives:**

- Attain adequate knowledge and skills on different areas of Radiology and Imaging Technology.
- Work in related laboratories, industries and field level settings.
- Solve problems in the respective fields.

- Undertake research works in the fields concerned.
- Demonstrate verbal and written communication advocacy skills and understand their roles and responsibilities.
- Impart teaching and training for developing learning skills and research necessary in the areas concerned.

#### **Eligibility Criteria:**

Sr. Secondary (10+2) PCB or Life Sciences as one of the subjects with minimum 50% marks.

#### Scope:

India's healthcare sector is on a growth trajectory, the career opportunities for such allied health care workers with expertise in diagnostic science have never been better. Services of diagnostic professionals can be essential for medical treatments and their demand is on the rise.

B.Sc. degree holders in Radiological Imaging Technology can find lot of job opportunities in India and abroad as:

- Radiographer
- RadiologicTechnologist (CT/MRI/Mammography)
- Applications Specialist
- X-RayTechnician
- · Health Care Marketing
- · Interventional Technologist
- Medical Advisor
- RadiologicTechnologist
- Medical Image Analysis Scientist

FIRST	YEAR	SECON	D YEAR	THIRD YEAR		
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI	
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	
<b>1.1</b> Human Anatomy as Applied to Radiology & Imaging-I	<b>2.1</b> Human Anatomy as Applied to Radiology & Imaging-II	<b>3.1</b> Dark Room Techniques-I	<b>4.1</b> Dark Room Techniques-I	<b>5.1</b> Radiographic Technique & parameters-I	<b>6.1</b> Radiographic Technique & parameters-II	
<b>1.2</b> Human Physiology-l	<b>2.2</b> Human Physiology-II	<b>3.2</b> Patient Care & Medical Ethics of Radiology-I	<b>4.2</b> Patient Care & Medical Ethics of Radiology-I	<b>5.2</b> Special Radiographic Techniques & Procedures-I	<b>6.2</b> Special Radiographic Techniques & Procedures-II	
<b>1.3</b> Basics & Radiation Physics-I	<b>2.3</b> Basic & Radiation Physics-II	<b>3.3</b> Instrumentation for Radiography & Imaging Machines-I	<b>4.3</b> Instrumentation for Radiography & Imaging Machines-I	<b>5.3</b> Advancements in Imaging Technologies-I	<b>6.3</b> Advancements in Imaging Technologies-II	
<b>1.4</b> English–I	<b>2.4</b> English-II	<b>3.4</b> Radiographic Introductions of extremities-l	<b>4.4</b> Radiographic Introductions of extremities-I	<b>5.4</b> Radiation Protection & Planning of Radiology Department-I	<b>6.4</b> Radiation Protection & Planning of Radiology Department-II	
1.5 Pathology-l	<b>2.5</b> Pathology as Applied to Radiology-II	<b>3.5</b> Research Methodology and Statistics	<b>4.5</b> OPE (Open Elective)	<b>5.5</b> RBL (Research Based Learning)	<b>6.5</b> OPE (Open Elective)	
	<b>2.6</b> OPE (Open Elective)	<b>3.6</b> Introduction of Biochemistry	<b>4.6</b> RBL (Research Based Learning)	<b>5.6</b> Biomedical Waste	<b>6.6</b> RBL (Research Based Learning)	
		<b>3.7</b> RBL (Research Based Learning)		<b>5.7</b> FSIC (Faculty Student Industry Connect)		



Medical laboratory technicians assist physicians in the diagnosis and treatment of diseases by performing tests on tissue, blood and other body fluids. Medical lab technicians most commonly work in hospitals or doctors' offices. Medical laboratory technicians play an important role in the prevention and diagnosis of diseases, such as cancer, diabetes and AIDS. Medical lab technicians work under the supervision of a physician, lab manager or medical technologist and perform laboratory tests on specimens.

The Bachelor of Science in Medical Laboratory Technology (Techniques) is a three-and-half-years undergraduate programme. The BMLT curriculum is a semester-wise programme with syllabus covered in three academic years followed by 6 months of full-time clinical internship at the 900+bedded Sharda Hospital.

#### **Eligibility Criteria:**

Sr. Secondary (10+2) PCB or Life Sciences as one of the subjects with minimum 50% marks.

#### Scope:

Medical technologists are an integral part of the medical profession. These professionals get involved in practical and technical work to aid correct diagnosis and effective functioning of Biochemical Laboratories.

The career prospects in this field depend on the academic and technical skills of the technologist/technician. Initially he/she joins any laboratory as a certified medical laboratory technician. These days with the growth in the private sector there are so many private hospitals, nursing homes, blood banks, pathology laboratories etc. the demand for laboratory technicians is on the up-swing.

- Medical Laboratory Technicians find Employment
- · Technician in Pathology Labs
- · Research Labs
- Urologist Clinic
- Pharmaceuticals
- Hospitals
- Medical Colleges
- · Universities etc.

FIRST	YEAR	SECON	D YEAR	THIRD YEAR		
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI	
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	
<b>1.1</b> Biochemistry-l	<b>2.1</b> Biochemistry-II	<b>3.1</b> Biochemistry-III	<b>4.1</b> Biochemistry-IV	<b>5.1</b> Biochemistry-V	<b>6.1</b> Biochemistry-VI	
<b>1.2</b> Pathology-l	<b>2.2</b> Pathology-ll	<b>3.2</b> Pathology-III	<b>4.2</b> Pathology-IV	<b>5.2</b> Pathology-V	<b>6.2</b> Pathology-VI	
<b>1.3</b> Microbiology-l	2.3 Microbiology-II	<b>3.3</b> Microbiology-III	<b>4.3</b> Microbiology-IV	<b>5.3</b> Microbiology-V	<b>6.3</b> Microbiology-VI	
<b>1.4</b> Human Anatomy-l	<b>2.4</b> Human Anatomy-II	<b>3.4</b> English-II	<b>4.4</b> Research Methodology and Statistics	<b>5.4</b> Basic Clinical Laboratory Management-V	<b>6.4</b> Faculty Student Industry Connect	
<b>1.5</b> Human Physiology-l	<b>2.5</b> Human Physiology-ll					
<b>1.6</b> English-l	<b>2.6</b> Open Elective Course					





B.Sc. in Cardiovascular technology is a regular course programme designed to cover all aspects of cardiovascular disease management and care. It involves learning of complex diagnostic and therapeutic procedures that involve use of various equipment, computer hardware, tools, machines and pharmacological agents. This programme enables students to acquire skills for management of various cardiac disorders. Students will be trained to apply specialized occupational theory, skills and concepts to work independently as qualified cardiovascular technologist and becomes an integral member of the cardiac catheterization and electrophysiology laboratory teams. The CVT's primary role is to perform, at the direction of a qualified physician, technical procedures for the diagnosis and treatment of cardiovascular injury and disease.

#### **Eligibility Criteria:**

Sr. Secondary (10+2) PCB or Life Sciences as one of the subjects with minimum 50% marks.

#### Scope:

Cardiac care technicians are eligible to work in hospitals set up as cardiac sonographers, vascular technologists after adequate training in the specialized field. Employment opportunities for cardiac care technicians are expected to fluctuate from high to low throughout the next decade. There is an expected

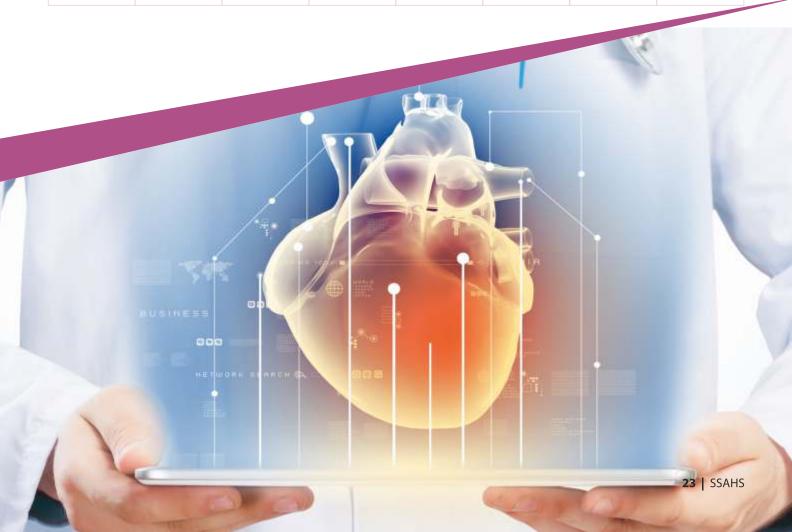
expansion of 20%-35% in job opportunities over the next ten years. This is partly due to the rapidly aging baby-boom generation that will require more open-heart surgeries as they get older.

There is also added emphasis on cardiac health due to the fact that heart related illnesses are responsible for a large number of death each year. There will also be job opening due to current cardiovascular professionals retiring or leaving the field for other reasons. Because the profession is relatively small and competitive, job security should be high for these cardiac professionals.

Students will be trained to apply specialized occupational theory, skills and concepts to work independently as qualified cardiovascular technologist and becomes an integral member of the cardiac catheterization and electrophysiology laboratory teams. Graduate of this programme are placed in multispecialty hospitals to assist the Physicians as:

- Cardiovascular Technician
- Ecocardiographer
- Cardiac Sonographer
- Cardiac Electrophysiology Specialist

FIRST	YEAR	SECON	D YEAR	THIRD YEAR		FOURT	H YEAR
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI	SEMESTER VII	SEMESTER VIII
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Human Anatomy-l	<b>2.1</b> Human Anatomy-II	<b>3.1</b> Medicine relevant to cardiac care technology-l	<b>4.1</b> Medicine relevant to cardiac care technology-II	<b>5.1</b> Cardiac care Technology- Clinical-l	<b>6.1</b> Cardiac care Technology- Clinical-II	<b>7.1</b> Cardiovascular Technology Internship & Project work-l	<b>8.1</b> Cardiovascular Technology Internship & Project work-II
<b>1.2</b> Physiology-l	<b>2.2</b> Physiology-ll	<b>3.2</b> Applied Pathology-l	<b>4.2</b> Applied Pathology-II	<b>5.2</b> Cardiac care Technology-Applied-I	<b>6.2</b> Cardiac care Technology- Applied-II	<b>7.2</b> Research Based Learning-3	<b>8.2</b> Research Based Learning-4
<b>1.3</b> Biochemistry-I	<b>2.3</b> Biochemistry-II	<b>3.3</b> Applied Microbiology-I	<b>4.3</b> Applied Microbiology-II	<b>5.3</b> Cardiac care Technology- Advanced-l	<b>6.3</b> Cardiac care Technology- Advanced-II		
1.4 Pathology-I	2.4 Pathology-II	<b>3.4</b> Applied Pharmacology-I	<b>4.4</b> Applied Pharmacology-II	<b>5.4</b> Faculty- Student Industry Connect Course	<b>6.4</b> Biostatistics & Research Methodology		
<b>1.5</b> Microbiology-l	<b>2.5</b> Microbiology-ll	<b>3.5</b> Introduction to Cardiac care Technology-I	<b>4.5</b> Introduction to Cardiac care Technology-II		<b>6.5</b> Open Elective course		
<b>1.6</b> Basics of Hospital and data management-I	<b>2.6</b> Basics of Hospital and data management-II		<b>4.6</b> Open Elective Course				
	<b>2.7</b> Open Elective Course						





Forensic Science is the application of a wide spectrum of Sciences to aide Criminal Investigations. Traditionally, it is a subject run for Government-owned Forensic Science Laboratories which aide the state police services to carry out routine crime scene processing. It is finding a wider scope however, as lately sectors like banks and insurance find heavy reliability on forensic experts-for testing bank and insurance frauds. The field of cyber security also has its roots in classic digital forensics. Our courses are designed to provide industryready scholars to government labs. Special focus is given on hands-on training of the students. The course is conducted in close collaboration with prominent state forensic science laboratories and students are given industrial internships at these labs-so as to enable them to be complete forensic professionals.

#### **Eligibility Criteria:**

Sr. Secondary (10+2) PCB or PCM as one of the subjects with minimum 50% marks.

#### Scope:

Careers in Forensic Sciences largely depend on one's area of specialization. Successful graduates can find work in both government and private agencies, in hospitals and laboratories. Some corporate organizations hire graduates as Document Experts.

Other areas include anti-terrorist operations, mass disastermanagement, cybercrime investigation, protection of human

rights, environment, consumer and intellectual property rights. Also, such professionals find career opportunities in other areas such as civil services, banks, police, pharmaceutical industry, paint industry, clinical research, biotechnology and software. Forensic Science Laboratories (FSL) across India hire forensic scientists.

#### Forensic Science Graduates can work as:

- Investigative Officers
- Legal Counsellors
- Forensic Expert
- Forensic Scientist
- Crime Scene Investigator
- · Teacher/Professor · Forensic Engineer
- Crime Reporter Law Consultant
- Some recruiters in the field of forensic science include:
- Handwriting Expert

- Central Bureau of Investigation (CBI)
- Central Govt. Forensic Sciences Labs
- Intelligence Bureau (IB)
- **Private Detective Agencies**
- Hospitals
- Law Firms
- Police Department
- Quality Control Bureau
- **Banks**
- Universities
- Defence/Army

FIRST	YEAR	SECOND YEAR THIRD YEAR		SECOND YEAR		SECOND YEAR THIRD YEAR		FOURT	H YEAR
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI	SEMESTER VII	SEMESTER VIII		
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE		
<b>1.1</b> CSI and Criminology	<b>2.1</b> Questioned Documents	<b>3.1</b> Forensic Biology and Serology	<b>4.1</b> Forensic Chemistry	<b>5.1</b> Forensic Medicine	<b>6.1</b> Forensic Physics	<b>7.1</b> Criminology and Law	<b>8.1</b> Explosives		
<b>1.2</b> Physics 1	<b>2.2</b> Physics 2	<b>3.2</b> Arson and Accident Investigation	<b>4.2</b> Forensic Anthropology and Odontology	<b>5.2</b> Forensic Toxicology	<b>6.2</b> Forensic Ballistics	<b>7.2</b> Forensic Psychology	<b>8.2</b> Forensic Instrumental Analysis		
<b>1.3</b> Chemistry 1	<b>2.3</b> Chemistry 2	<b>3.3</b> Chemistry 3	<b>4.3</b> Chemistry 4	<b>5.3</b> Analytical Chemistry I	<b>6.3</b> Analytical Chemistry II	<b>7.3</b> Advanced Dermatoglyphics	<b>8.3</b> Quality Assurance and Accreditation in Forensic Sciences		
<b>1.4</b> Botany 1	<b>2.4</b> Botany 2	<b>3.4</b> Zoology 3- Microbiology	<b>4.4</b> Zoology 4- Biomolecules	<b>5.4</b> Advanced Zoology l	<b>6.4</b> Advanced Zoology ll	<b>7.4</b> Biostatistics and Research Methodology	<b>8.4</b> Cyber and Digital Forensic		
<b>1.5</b> Forensic Photography	<b>2.5</b> Zoology 2- Cell Biology and Genetics	<b>3.5</b> Botany 3	<b>4.5</b> Botany 4	<b>5.5</b> Analytic Ability and Digital Awareness	<b>6.5</b> Communication Skills and Personality Development	<b>7.5</b> Introduction of Biometry			
<b>1.6</b> Food Adulteration I	<b>2.6</b> Fingerprints	<b>3.6</b> Physics 3	<b>4.6</b> Physics 4			<b>7.6</b> Forensic Accounting and Fraud			
<b>1.7</b> Zoology 1- Human Physiology	<b>2.7</b> Graphology	<b>3.7</b> Impression Evidence	<b>4.7</b> Food Adulteration II						
<b>1.8</b> Food, Nutrition and Hygiene	<b>2.8</b> First Aid and Health	3.8 Human Values and Environment studies	<b>4.8</b> Physical Education and Yoga						

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Optometrists are trained to examine the eyes to detect defects in vision, signs of injury, ocular diseases or abnormality and problems with general health, such as high blood pressure or diabetes. They make a health assessment, offer clinical advice, prescribe spectacles or contact lenses and refer patients for further treatment, when necessary. Optometrists study at university for three years and must participate in a period of assessed clinical training before being deemed to have the knowledge and skills needed to be registered. Once registered, they have the opportunity to take further qualifications and develop their interests in specialist areas of practice. Throughout the course, the students will discover the scientific principles that underpin optometry, including the properties of light, the anatomy of the eye and the processing of vision in the brain.

The programme will enable a student to become a competent person in providing service as an Optician, Optometrist, Refraction Specialist and Ophthalmic Assistant to the community. Sharda's training methodology will provide students with integrated inputs that will help develop their conceptual & analytical skills, and a strong technical knowledge base, in order to prepare them for a bright future in the eye care sector of the Healthcare Industry.

#### **Eligibility Criteria:**

Sr. Secondary (10+2) PCB or Life Sciences as one of the subjects with minimum 50% marks.

#### Scope:

Optometrists can set up their own private clinics & work independently. Optometrists can work as post-secondary teachers, occupational/industrial safety programmes, consultants in the eye care industry or do research in optometry colleges. They can also choose a career in sports vision, public health and government service or community health centres.

#### **Career Options for Optometrist:**

- · Assist ophthalmologists in hospital clinic
- Practice in optical establishments
- Run optical shop
- Offer clinical services to multinationals dealing, with the manufacturing and distribution of ophthalmic lenses, contact lenses and ophthalmic instruments.
- Start manufacturing unit for optical lenses.
- Those interested in higher studies can join for M.Sc. and Ph.D. programmes and take up teaching Optometry as a carrier.

FIRST	FIRST YEAR		SECOND YEAR		YEAR	FOURT	H YEAR
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI	SEMESTER VII	SEMESTER VIII
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
<b>1.1</b> General Anatomy	<b>2.1</b> Basic Biochemistry-II	<b>3.1</b> Applied Optics-I	<b>4.1</b> Applied Optics-II	<b>5.1</b> Contact Lens-I	<b>6.1</b> Contact Lens-II	<b>7.1</b> BOP Internship and project work-l	<b>8.1</b> BOP Internship and project work-II
<b>1.2</b> General Physiology	<b>2.2</b> Ocular Anatomy	<b>3.2</b> Visual Optics-I (Visual Perception & Neurophysiology)	<b>4.2</b> Visual Optics-II	<b>5.2</b> Low Vision & Rehabilitation	<b>6.2</b> Binocular Vision-Il	<b>7.2</b> RBL 3	<b>8.2</b> RBL 4
<b>1.3</b> Basic Biochemistry-I	<b>2.3</b> Ocular Physiology	<b>3.3</b> Ocular Diseases-l	<b>4.3</b> Basic Pharmacology	<b>5.3</b> Public Health, Community & Occupational Optometry	<b>6.3</b> Geriatric Optometry		
<b>1.4</b> Physical Optics	<b>2.4</b> Geometrical Optics-II	<b>3.4</b> Microbiology	<b>4.4</b> Optometric Instruments	<b>5.4</b> Binocular Vision-l	<b>6.4</b> Paediatric Optometry		
<b>1.5</b> Geometrical Optics-I	<b>2.5</b> Nutrition	<b>3.5</b> Pathology	<b>4.5</b> Ocular Diseases-II	<b>5.5</b> Diseases of the Eye and Clinical Medicine	<b>6.5</b> Dispensing Optometry		
<b>1.6</b> English and Communication-l	<b>2.6</b> Open Elective course	<b>3.6</b> English and Communication-II	<b>4.6</b> Open Elective course		<b>6.6</b> Open Elective course		
					<b>6.7</b> Research methodology and Statistics		





Nutrition and dietetics is the science of diet and its effects on human health. This field focuses on the scientific understanding of nutrition and its practical application in the field of healthcare and rehabilitation of patients, food production and scientific research.

A dietician or nutritionist mainly deals with dietetics. Regulation of diet according to the nutritional and caloric needs of the patients or clients is what the Dietitian take care of. Strong communication skills are helpful, as a large part of the job is explaining and advising patients on diet and nutritional plans, as well as motivating patients to reach for specific nutritional and dietetic goals. And as is the case with almost every medical profession, given that nutritionists/dieticians work very closely with their patients, it is important that a dietician be compassionate, patient, motivational, and sensitive to a patient's individual needs.

#### **Programme Objectives:**

- To impart knowledge and develop capacities of the students in Clinical Nutrition.
- To develop students to become health care professionals for services in various fields of clinical nutrition and related areas such as hospitals, academics, research, industry, community service.

 To enable them to pursue higher education and research in Clinical Nutrition and Food Science

#### **Eligibility Criteria:**

Sr. Secondary (10+2) PCB or Life Sciences as one of the subjects with minimum 50% marks.

#### Scope:

Graduates find employment in a variety of settings including: patient care in hospitals; nutrition and health education in community health centres; public health nutrition; food and nutrition policy; private practice and consultancy; education and training; food industries; health promotion; nutrition research; sports nutrition and the media. They may work as:

- · Child Nutrition Development Officer
- Clinical Dietitian
- Clinical Nutritionist
- Dietician Health Coach
- Food Industry Nutritionist
- Nutritionist
- Health Promotion Officer
- Hospital Food Service Manager
- Paediatric Dietitian
- Sports Nutrition Consultant

FIRST	YEAR	SECON	D YEAR	THIRD YEAR		FOURT	H YEAR
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV	SEMESTER V	SEMESTER VI	SEMESTER VII	SEMESTER VIII
COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Fundamentals of Food and Nutrition	<b>2.1</b> Nutrition through life cycle	<b>3.1</b> Basic Dietetics and Counselling-II	<b>4.1</b> Nutrition Biochemistry-ll	<b>5.1</b> Food Service Management-l	<b>6.1</b> Therapeutic Nutrition-II	<b>7.1</b> Applied Human Physiology	<b>8.1</b> Research Methodology and Biostats
<b>1.2</b> Human Anotomy and Physiology-I	<b>2.1</b> Human Anatomy and Physiology-II	<b>3.2</b> Nutritional Biochemistry-l	<b>4.2</b> Community Nutrition	<b>5.2</b> Nutrition in Physical Fitness	<b>6.2</b> Food Preservation and Packaging	<b>7.2</b> Advanced Nutritional Biochemistry and Instrumentation	<b>8.2</b> Advance Food Microbiology and safety
<b>1.3</b> Environmental Science	<b>2.3</b> Applied Chemistry	<b>3.3</b> Psychology	<b>4.3</b> Food Microbiology	<b>5.3</b> Therapeutic Nutrition-I	<b>6.3</b> Food toxicity	<b>7.3</b> Nutrition Science	<b>8.3</b> Clinical Nutrition
<b>1.4</b> Family Finance and Meal Management	2.4 Processing Technology of Cereals, Pulses Legumes and Oilseed/Food Science and Technology	<b>3.4</b> Food Safety & Security/ Food Sanitation & Hygiene	<b>4.4</b> Nutritional Assessment	<b>5.4</b> Food Product Development & Sensory analysis	<b>6.4</b> Food Service Management-II	<b>7.4</b> Food Chemistry	8.4 Nutrition in Emergency and Disaster Management/ Nutrition for Maternal and Child Health
<b>1.5</b> Food, Nutrition and Hygiene	<b>2.5</b> Nutrition and Health Education	<b>3.5</b> Clinical case studies	<b>4.5</b> Physical Education end Yoga	<b>5.5</b> Analytic Ability and Digital Awareness	<b>6.5</b> Communication Skills and Personality Development		<b>8.5</b> Public Health Nutrition
	<b>2.6</b> First aid and Health	<b>3.6</b> Human Values and Environmental Studies					
Certificate	will be given	Dinloma w	vill be given	Dec	gree	Degree with I	Hons/Research



Physiotherapist as a profession encourages the individual to engage in many preventive and rehabilitative practices such as posture management, hydrotherapy, sensory integration, respiratory conditions, therapies, orthotic assessment, gross motor development and others.

The Master of Physiotherapy develops the ability to use highly-developed clinical reasoning skills to assess, diagnose and treat people with movement problems caused by a wide variety of joint, muscle, nerve and metabolic disorders. You will also learn to help people avoid injuries and maintain a fit and healthy body. During this two-year degree, students will explore introductory and advanced musculoskeletal, neurological, and cardiopulmonary physiotherapy, applied to patients across the lifespan. Our Master of Physiotherapy provides you with the specialised knowledge for a successful career in a range of different areas. Whether you decide to work in the public hospital setting or private practice, you will be armed with the skills to meet the unique needs of clients and enhance the health and welfare of the wider community.

#### **Specializations Offered:**

- Orthopaedics
- Neurology
- Cardiopulmonary
- Sports

#### **Eligibility Criteria:**

BPT with minimum 50% marks.

#### Scope:

Physical therapists have ample job prospects in Hospitals, Nursing homes, Residential homes, Rehabilitation centres or even Private clinic. Popular job areas for physiotherapists:

- Fitness Centres
- Health Clubs
- Physiotherapy Clinics
- Hospitals
- Sports Training Facilities
- Private Clinics
- · Orthopaedic Departments
- Physiotherapy Equipment Manufacturers

#### Some of the suitable job roles for M.P.T. degree holders are:

- Physiotherapist
- Osteopath
- Research Assistant
- Sports Physio Rehabilitator
- Therapy Manager

#### PROGRAMME STRUCTURE - MPT (NEUROLOGY)

1st Year (Semester 1)	Year (Semester 1) 1st Year (Semester 2) 2nd Year (		2nd Year (Semester 4)
COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Advanced Biomedical Sciences	2.1 Neurological Biomechanics	<b>3.1</b> Physiotherapy in Neurological Conditions-I	<b>4.1</b> Physiotherapy in Neurological Conditions-II
<b>1.2</b> Biostatistics and Research Methodology	<b>2.2</b> Neurological Physiotherapy Assessment	<b>3.2</b> Paediatric and Geriatric Neurorehabilitation	<b>4.2</b> Open Elective
<b>1.3</b> Exercise Physiology	<b>2.3</b> Advanced Physiotherapeutics in Neurological Conditions		
<b>1.4</b> Physiotherapy Practice and Ethics	<b>2.4</b> Open Elective		

#### PROGRAMME STRUCTURE - MPT (ORTHOPAEDICS)

1st Year (Semester 1)	1st Year (Semester 2)	2nd Year (Semester 3)	2nd Year (Semester 4)
COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Advanced Biomedical Sciences	2.1 Musculoskeletal Biomechanics	<b>3.1</b> Physiotherapy in Musculoskeletal Conditions-I	<b>4.1</b> Physiotherapy in Musculoskeletal Conditions-II
<b>1.2</b> Biostatistics and Research Methodology	<b>2.2</b> Musculoskeletal Physiotherapy Assessment	<b>3.2</b> Musculoskeletal Rehabilitation	<b>4.2</b> Open Elective
<b>1.3</b> Exercise Physiology	<b>2.3</b> Advanced Physiotherapeutics in Musculoskeletal Conditions		
<b>1.4</b> Physiotherapy Practice and Ethics	<b>2.4</b> Open Elective		

#### PROGRAMME STRUCTURE - MPT (CARDIOPULMONARY)

1st Year (Semester 1)	1st Year (Semester 2)	2nd Year (Semester 3)	2nd Year (Semester 4)
COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Advanced Biomedical Sciences	2.1 Cardiopulmonary Biomechanics	<b>3.1</b> Physiotherapy in Cardiopulmonary Conditions-I	<b>4.1</b> Physiotherapy in Cardiopulmonary Conditions-II
<b>1.2</b> Biostatistics and Research Methodology	<b>2.2</b> Cardiopulmonary Physiotherapy Assessment	<b>3.2</b> Cardiopulmonary Rehabilitation	<b>4.2</b> Open Elective
<b>1.3</b> Exercise Physiology	<b>2.3</b> Advanced Physiotherapeutics in Cardiopulmonary Conditions		
<b>1.4</b> Physiotherapy Practice and Ethics	<b>2.4</b> Open Elective		

#### PROGRAMME STRUCTURE - MPT (SPORTS)

1st Year (Semester 1)	1st Year (Semester 2)	2nd Year (Semester 3)	2nd Year (Semester 4)
COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Advanced Biomedical Sciences	<b>2.1</b> Sports Biomechanics	<b>3.1</b> Physiotherapy in Sports Related Conditions-I	<b>4.1</b> Physiotherapy in Sports Related Conditions-II
<b>1.2</b> Biostatistics and Research Methodology	<b>2.2</b> Sports Physiotherapy Assessment	<b>3.2</b> Sports Traumatology	<b>4.2</b> OpenElective
<b>1.3</b> Exercise Physiology	<b>2.3</b> Advanced Physiotherapeutics in Sports		
<b>1.4</b> Physiotherapy Practice and Ethics	2.4 Open Elective		



The global clinical research market is growing fast with the annual growth rate over 20% and there is a need to have trained man power to handle clinical trials in ethical and scientific manner. Clinical research is essential for discovering if new healthcare interventions improve patient outcomes. The M.Sc. programme in Clinical Research lays a solid grounding on core fundamental aspects of clinical trials as well as enhances knowledge and understanding of those already in the field. It is a two-year postgraduate programme that deals with the study of analyzing healthy and/or diseased human volunteers to generate information which can be used to obtain data that ultimately help in the treatment diagnosis prevention and relief in the symptoms of the disease.

This programme will broaden student's horizon of knowledge on the subjects including clinical trials, epidemiologic studies, translational research, behavioural science, patient-oriented research and health service research.

In addition, the programme will also enable students to analyze high-quality data and to develop reliable results for the key generation of evidence facilitating impetus for improving patient care. The programme helps students in gaining expertise in research and development processes to develop new applications to upgrade medical science.

The accurate balance of theoretical and practical sessions enable students to apply best of their knowledge and produce concrete results with learning.

MBBS/BDS/BVSc./B.Sc. Life Sciences/B.Sc. Biology/with minimum 55% marks.

#### Scope:

Qualified professionals can look forward to rewarding careers as Clinical Research Investigations & Co-ordinators, Clinical Research Associates, Regulatory Affair Associates, Associates Project Manager, Data Managers, QA/QC Managers, Business Development Team etc. in various organizations such as Pharmaceutical Industry, Contract Research Organizations, Site Management Organizations, Hospitals, Educational Institutes, DCGI Office and other Government Regulatory/ Research Organizations.

#### Some organizations which recruit our students are:

- Panacea Biotec
- Metro Hospital
- Innodata
- Max Hospital
- Artemis Healthcare
- Wipro
- DRDO
- Sir Gangaram Hospital
- Pfizer
- · Rajiv Gandhi Cancer Institute

FIRST YEAR		SECOND YEAR	
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV
COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Biostatistics and Research Methodology	<b>2.1</b> Systemic Pharmacology	<b>3.1</b> Faculty-Student-Industry- Connect (CA)	<b>4.1</b> Open Elective
<b>1.2</b> Human Anatomy and Physiology	<b>2.2</b> Clinical trial process and good clinical practices	<b>3.2</b> MS Office (Advance excel) (CA)	<b>4.2</b> Research Methodology
<b>1.3</b> Microbiology and Pathology	<b>2.3</b> Introduction to Management (Hospital & Healthcare)	<b>3.3</b> Clinical Trial Management	<b>4.3</b> Recent Advances in Clinical Research
<b>1.4</b> Clinical Biochemistry	<b>2.4</b> Medical Terminologies and Conditions	<b>3.4</b> Regulations in Clinical Research	<b>4.4</b> RBL-4
<b>1.5</b> Introduction to Clinical Research	<b>2.5</b> Epidemiology and Biostatistics	<b>3.5</b> Documentation and Data Management in Clinical Research	<b>4.5</b> Dissertation (ETE)
<b>1.6</b> Value Added Course (VAC)	<b>2.6</b> Open Elective	<b>3.6</b> Pharmacovigilance and Pharmacoeconomics	
<b>1.7</b> RBL-1	<b>2.7</b> RBL-2	<b>3.7</b> Psychology and Patient Counselling	
		<b>3.8</b> Value Added Course (VAC)	
		<b>3.9</b> RBL-3	
		<b>3.10</b> Training (ETE Exam-Viva)	
		<b>3.11</b> Documentation in Clinical Research (CA)	



Forensic Science, is an amalgamation of almost all scientific knowledge utilised for the dispensation of justice in criminal, civil, regulatory and social frameworks. In recent times, several Government and Private Universities have initiated this program under their aegis, however the need for quality education, training and research in Forensic Science remains a major concern. With this view, the Sharda University has initiated this Master's Program so as to cater to the ever increasing demand for qualified Forensic Experts in the country and over a period evolve as a cohesive entity imparting scientific, technological and legal services. Our curriculum lays emphasis on a practical approach in all the domains of Forensic Science.

The Pedagogy involves Classroom lectures, laboratory based practical sessions, seminars, case studies, group discussions, guest lectures by eminent experts from India and abroad, Summer Internship and Project/Dissertation work related to the area of Forensic Science.

This is a two year program spread over four semesters. While the syllabus encompasses a variety of areas akin to the Forensic field, each student will have an option to choose any one area of specialization out of the three areas provided, i.e., Forensic Chemical Sciences, Forensic Biological Sciences and Forensic Physical Sciences from second year onwards.

#### **Specializations Offered:**

Forensic Chemical Sciences

- Forensic Biological Sciences
- Forensic Physical Sciences

#### **Eligibility Criteria:**

B.Sc. (Forensic Science)/B.Sc. (Pass) with any of the two subjects viz. Botany, Biotechnology, Chemistry, Mathematics, Physics and Zoology or BDS with at least 50% marks in aggregate.

#### **Employment Opportunities:**

The students holding the Forensic degree can utilise and provide their services to not only Government and Private Forensic Science Laboratories but also to organisations that are involved with Investigation of Insurance Claims, Investigation of Vehicular / property Fire claims, Examination of Fingerprints, all types of Questioned Documents involving forgeries, Computer Forensics, etc. The employment opportunities of such students will encompass:

- Forensic Science Laboratories (Govt. and Private)
- Insurance Sector (Health and General Insurance)
- Legal Firms/Consultancy Firms
- Banks and Finance Companies
- Investigative Agencies
- Quality Assurance Laboratories
- · Cyber Security Agencies
- · Academic Institutions
- · Vigilance Departments

#### **FIRST YEAR**

#### SEMESTER I

- 1.1 Criminology and Law
- 1.2 Forensic Photography and Image Analysis
- 1.3 Crime Scene Investigation
- 1.4 Fundamentals of Dermatoglyphics Examination
- 1.5 Biostatistics and Research Methodology
- 1.6 Value added course (VAC)
- 1.7 Lab-Crime Scene Investigation
- 1.8 Lab-Fundamentals of Dermatoglyphics Examination
- 1.9 RBL 1
- 1.10 Practical/Viva-Voce/Jury

#### **SECOND YEAR**

#### **SEMESTER III**

#### **Specialization: Forensic Chemical Sciences**

- 3.1 Advance Forensic Chemistry and Pharmacology
- 3.2 Advances in Forensic Chemistry
- 3.3 Advances in Forensic Toxicology
- 3.4 Forensic Instrumental Analysis II
- 3.5 Advance Forensic Chemistry and Pharmacology-Lab
- 3.5 Lab-Advances in Forensic Chemistry
- 3.5 Lab-Advances in Forensic Toxicology
- 3.5 RBL 3
- 3.6 Discipline Specific Elective: (Opt any one)
  - Bank Frauds and Forensic Accounting
  - Road Accident Investigation and Insurance Claims
  - Microbial Forensics

#### **Specialization: Forensic Biological Sciences**

- 3.1 Advance Forensic Serology and DNA Profiling
- 3.2 Advances in Forensic Biology
- 3.3 Advances in Forensic Anthropology and Odontology
- 3.4 Forensic Instrumental Analysis II
- 3.3 Lab-Advances in Forensic Biology
- 3.4 Lab-Advances in Forensic Anthropology and Odontology
- 3.5 Advance Forensic Serology and DNA Profiling-Lab
- 3.6 RBL 3
- 3.7 Discipline Specific Elective: (Opt any one)
  - Bank Frauds and Forensic Accounting
  - · Road Accident Investigation and Insurance Claims
  - Microbial Forensics

#### **Specialization: Forensic Physical Sciences**

- 3.1 Advances in Forensic Physics
- **3.2** Advances in Digital Forensics
- 3.3 Forensic Instrumental Analysis II
- 3.4 Advance wireless devices and Ballistics
- 3.5 Lab-Advances in Forensic Physics
- 3.6 Lab-Advances in Digital Forensics
- 3.7 Advance wireless devices and Ballistics-Lab
- 3.8 RBI 3
- 3.9 Discipline Specific Elective: (Opt any one)
  - Bank Frauds and Forensic Accounting
  - Road Accident Investigation and Insurance Claims
  - Microbial Forensics

#### **FIRST YEAR**

#### **SEMESTER II**

- 2.1 Forensic Ballistics and Explosives
- 2.2 Forensic Medicine
- 2.3 Fundamentals of Questioned Document Examination
- 2.4 Forensic Instrumental Analysis
- 2.5 OPE
- 2.6 Lab-Forensic Ballistics and Explosives
- 2.7 Lab-Fundamentals of Questioned Document Examination
- 2 8 RRI 1
- 2.9 Industry connect/FSIC
- 2.10 Discipline Specific Elective: (Opt any one)
  - Forensic Psychology
  - Quality Assurance and Accreditation in Forensic Sciences
  - Digital and Cyber Forensics

#### **SECOND YEAR**

#### **SEMESTER IV**

#### **Specialization: Forensic Chemical Sciences**

- 4.1 Modern and Applied Forensic Chemistry
- 4.2 Advances in Forensic Pharmacology
- 4.3 Advance Forensic Chemistry and Pharmacology-Lab
- 4.4 Dissertation (Compulsory for all specializations)
- 4.5 RBL 4
- **4.6** OPE

#### **Specialization: Forensic Biological Sciences**

- 4.1 Forensic Serology and Genetics
- **4.2** Forensic DNA Profiling and Bioinformatics
- **4.3** Advance Forensic Serology and DNA Profiling Lab
- 4.4 Dissertation (Compulsory for all specializations)
- **4.5** RBL 4
- **4.6** OPE

#### **Specialization: Forensic Physical Sciences**

- **4.1** Advances in Forensic Ballistics
- **4.2** Mobile and Wireless Device Forensics
- 4.3 Advance Wireless devices and Ballistics -Lab
- **4.4** Dissertation (Compulsory for all specializations)
- **4.5** RBL 4
- **4.6** OPE



Dietetics is the science of how food and nutrition affects human health. The field of dietetics has a strong emphasis on public health and a commitment to educating all about the importance of making proper dietary choices. Dietitian and nutritionists use nutrition and food science to help people improve their health.

Public health nutrition is the science and art of preventing disease, prolonging life and promoting health through the medium of nutrition. The aim of those working as public health nutritionists is for everyone to achieve greater health and well-being by making healthier food and nutrition-related choices.

#### **Programme Objectives:**

M.Sc. in Nutrition and Dietetics is a 2-year full-time post graduate divided across 4 semesters. It has been designed:

- To critically evaluate through an integration of nutrition, dietetics, and research.
- To do hands-on training in hospitals, in association with dieticians and clinicians.
- To learn about advanced diet therapy.
- To learn by participating in symposiums, research projects, and conferences in Nutrition & Dietetics.

#### **Specializations Offered:**

- Clinical Nutrition
- Food Science and Nutrition

Public Health Nutrition

#### **Eligibility Criteria:**

Graduation with minimum 55% marks in Home Science/ Nutrition & Dietetics/Food Science/Microbiology/ Biochemistry/Life Science/BNYS (Naturopathy)/BAMS (Ayurveda)

#### Scope:

Popular areas of employment for Nutritionists and Dietetics include:

- · Colleges, schools, research institutes
- Private or government hospitals
- Cafeterias
- · Maternity, yoga centres
- · Health maintenance organizations
- Public health clinics
- Athlete camps, etc.

FIRST YEAR		SECOND YEAR	
SEMESTER I	SEMESTER II	SEMESTER III	SEMESTER IV
COURSE	COURSE	COURSE	COURSE
<b>1.1</b> Applied Human Physiology	<b>2.1</b> Food Microbiology and safety	3.1 Spec. A: Clinical Nutrition • Traditional and Convenience Food • Nutrition for Maternal and Child Health • Clinical Nutrition –II • Sports and Fitness Nutrition • Value added course (VAD)	<b>4.1</b> Dissertation
<b>1.2</b> Advanced Nutritional Biochemistry and Instrumentation-I	<b>2.2</b> Advance Nutritional Biochemistry and Instrumentation-II	3.2 Spec. B: Public Health Nutrition  • Traditional and Convenience food • Nutrition Epidemiology • Program Planning in Public Health Nutrition • Perspective of community nutrition and assessment • Value added course (VAD)	<b>4.2</b> RBL (4)
<b>1.3</b> Advanced Nutrition Science	<b>2.3</b> Clinical Nutrition-l	3.3 Spec. C: Food Science and Nutrition • Traditional and convenience food • Food Preservation and Processing • Food Quality Assurance • Food Product Development and Sensory Evaluation • Value added course (VAD)	<b>4.3</b> Functional Food and Nutraceuticals
<b>1.4</b> Advanced Food Chemistry	<b>2.4</b> Nutrition in Emergency and Disaster Management	<b>3.4</b> RBL (3)	<b>4.4</b> Open Elective (OPE)
<b>1.5</b> Research Methodology and Biostatistics	<b>2.5</b> Public Health and Nutrition		
<b>1.6</b> Value added course (VAC)	<b>2.6</b> Open Elective (OPE)		
<b>1.7</b> RBL (1)	<b>2.7</b> RBL (2)		

#### **STAR ACHIEVERS - PLACEMENT**



Ms. Ayushi Aggarwal
Master of Nutrition & Dietetics
Placed: Fitelo Pvt. Ltd



Ms. Shivangi Mishra
Master of Nutrition & Dietetics
Placed: Fitelo Pvt. Ltd



Ms. Naynika Mridha
MPT
Placed: United International



Ms. Vinita Saini
BPT
Palced: Udesay Physiotherapy Clinic



Mr. Kalpojit Borgohain
MCR
Placed: KV Clinical Research Pvt Ltd



Ms. Nidhi Singh MCR Placed: Max Health Care



Ms. Rinchen Pelzin Wangmo
MPT
Placed: Bhutan Football Federation



**Mr. Jairaj Singh Rawat BMLT**Placed: Max Hospital



Ms. Yukta Singh BPT Placed: Optum

#### **HIGHER STUDIES**



Mr. Mardo Taipodia
Pursuing M.Sc. Forensic Science
from NFSU



Ms. Mohammadi Zahra
Pursuing Masters in Public Health
from University of Essex



Mr. Albin Baby
Pursuing MPT
from University of Limerick



Ms. Chirantani Halder
Pursuing M.Sc. Biochemistry
from Hyderabad University



Ms. Nuha Sadaf Pursuing MND from Jamia Hamdard



Ms. Khushi Upadhyay Pursuing MND from ICMR



Ms. Bushra Khan
Pursuing Masters
from Jamia Hamdard



Mr. Paras Vashisth
Pursuing PG in Sports Management
from Camosun College



Ms. Neha Singh
Pursuing MRIT
from Jamia Hamdard

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