



MGM INSTITUTE OF HEALTH SCIENCES

MGM Institute of Health Sciences was conferred Deemed to be University status under Section 3 of UGC Act 1956 by the Ministry of Human Resource & Development, Govt. of India on 30th of August, 2006 to the Institutions namely MGM Medical College, Navi Mumbai and MGM Medical College, Aurangabad which was established in the year 1989 and 1990 respectively.

The headquarter of the institute is located at Navi Mumbai Campus.

The institute is a Deemed University u/s 3 of UGC Act 1956 and has been Grade

"A++" Accredited by NAAC

VISION

MGM Institute of Health Sciences aims to be a top-ranking center of Excellence in Health Science Education, Health Care, and Health Research.

MISSION

Students graduating from the Institute will have the required skills to deliver quality health care to all sections of society with compassion and benevolence, without prejudice or discrimination at an affordable cost.

As a Research Centre, it shall focus on finding better, safer, and affordable ways of diagnosing, treating, and preventing diseases. In doing so, it will maintain the highest ethical standards.

To wipe every tear from every eye

-Mahatma Gandhi

CONTENTS















AWARDS AND ACHIEVEMENTS

EXTRA-CURRICULAR ACTIVITIES

OUTREACH ACTIVITIES

RESEARCH AND INNOVATION

FEEDBACK

ABOUT US



MGM School of Biomedical Sciences (MGMSBS, NM), offers Basic Allied Science and Medical courses for students who aspire to pursue their career in the Allied Health Sciences, teaching as well as medical research.

We are committed to becoming a Centre of Excellence in the Allied Health discipline by creating vital research and teaching environment.

Goal of SBS



To become a Centre of Excellence in the Allied Health discipline with a strong Research and Teaching Environment

Objectives of SBS



To provide qualitative education and generate knowledge by engaging in cutting-edge research and by offering state-of-the-art Undergraduate and Postgraduate programs.

BEST PRACTICES

MGMSBS,NM provides an excellent opportunity to excel in the fields of Academics, Research, and Innovation promoting holistic development of its students.



To set global standards for making our Students Scientifically as well as Ethically Stronger



ACADEMICS



- B.Sc. Medical Laboratory Technology
- B.Sc. Medical Radiology and Imaging Technology
- B.Sc. Medical Dialysis Technology
- B.Sc. Perfusion Technology
- B.Sc. Cardiac Care Technology
- B.Sc. Operation Theater & Anesthesia Technology
- B. Optometry
- B.Sc. Physician Assistant in Emergency & Trauma Care

ACADEMICS



Master of Science (M.Sc.) Programmes

- M.Sc. Medical Biotechnology
- M.Sc. Medical Genetics
- M.Sc. Molecular Biology
- M.Sc. Clinical Embryology
- M.Sc. Clinical Nutrition
- M.Sc. Cardiac Care Technology
- M.Sc. Medical Radiology & Imaging Technology
- M.Sc Medical Dialysis Technology
- M.Sc. Biostatistics



Master Programmes

- M. Optometry
- Master of Public Health
- Master in Hospital Administration

ACADEMICS



Ph.D. Programmes

- Medical Genetics
- Medical Biotechnology
- Molecular Biology
- Biostatistics
- Health profession
- Hospital Administration
- Optometry

B.Sc. Medical Laboratory Technology

This course deals with various types of blood, body fluids, stool and urine tests. It includes Microbiology, Biochemistry, Pathology & Blood bank. Can work in the research industry and diagnostic company and also can start their own setup. Medical lab technicians play a crucial role in the functioning of any diagnostic procedures



Career Prospective

- Qualified for Maharashtra Paramedical council Registration
- Jobs opportunities in private and public sectors.
- Eligible for higher education such as M.Sc. MLT, MPA, MHA, etc
- Work as a blood bank technician, Laboratory Supervisor, phlebotomist, Clinical pathology technician.

B.Sc. Medical Radiology and Imaging Technology

This course is designed to impart profound medical Imaging knowledge through vast clinical exposure and rigorous training to cater the community health needs thereby facilitating the development of socially responsible radio technologists and entrepreneurs



- X-ray, CT technology
- Work at Diagnostic and Tertiary care centres.
- Qualified for Maharashtra paramedical council registration.
- Eligible for higher education such as M.Sc., MRIT, MPA, and MHA.
- Work on different modalities such as CR, DR, Fluoroscopy, C-ARM, OPG,
 Mammography, CT, and MRI etc.

B.Sc. Medical Dialysis Technology

Dialysis Technology is a branch of paramedical science that deals with the study of treating and removing excess water, solutes, and toxins from the blood of patients whose kidneys can no longer perform normal functions clearly.



Career Prospective

- Work at dialysis center/ Tertiary care hospital
- Qualified for Maharashtra paramedical council registration
- Eligible for higher education such as M.Sc, MDT, MHA, MPH, etc.
- Work on different modalities such as CRRT and PD

B.Sc. Perfusion Technology

Perfusion technology is a specialization in surgical technology that deals with the complete study of physiology and pathology of the lungs they prepare heart-lung machine and other sophisticated equipment as directed by healthcare physicians.



- Qualified for Maharashtra Paramedical council Registration
- A qualified Cardiac Perfusionist handles a heart-lung machine in the operating room while operating and maintaining patients' hemodynamics.
- Many other advanced life support machines are handled by perfusionists such as IABP, VAD, and ECMO for patients suffering from respiratory and cardiac failure.
- Higher education includes M.Sc. in Perfusion technology

B.Sc. Cardiac Care Technology

In cardiac technology, students learn about the technical as well as clinical knowledge about the cardiovascular systems. They measure how well a heart is functioning and monitor heart rate.



Career Prospective

- Cathlab/ Echocardiographer technologist.
- Work at diagnostic centers, Tertiary care hospitals Qualified for Maharashtra paramedical council registration.
- Eligible for higher education such as M.Sc., CCT, MHA, MPH, etc.
- Work on different modalities invasive as well as non-invasive such as ECG, ECHO, TMT, Holter, ABPM, Cathlab (Catheterization Lab) etc.

B.Sc. Operation Theatre & Anesthesia Technology

This course is designed to provide in-depth knowledge and imparts skills for working as an assistant to the consultant anaesthesiologist as well as to assist in the preparation of operation theatre before and during an elective or emergency surgery.



- B.Sc. AT & OT technical jobs are available in both private and public sectors
- Work at primary and tertiary care hospitals, Government health services education.
- · Qualified for Maharashtra paramedical council registration.
- Eligible for higher education such as M.Sc. AT & OT, MHA, MPH, etc.
- Operation Theatre technician and Anesthesia technologist.
- Can pursue career in academics

B. Optometry

Optometry is a primary healthcare profession where in optometrist provides comprehensive eye care. They contribute significantly to the diagnosis and management of ocular conditions by working independently, in synchronization with ophthalmologist and opticians.



Career Prospective

- Job opportunities at hospitals, healthcare centers, clinics, government jobs, research fields, independent practice, community projects & cooperate sectors.
- Qualified for Maharashtra paramedical council registration
- Eligible for higher education such as M.Optometry, MHA, MPH, Ph.D.

B.Sc. Physician Assistant in Emergency & Trauma Care

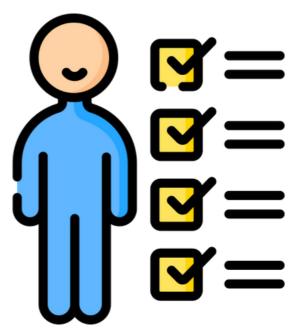
A physician assistant works under the supervision of doctors and physicians providing support to the health care team commonly known as PA and usually provide primary medical services



- Qualified for Maharashtra Paramedical council Registration
- Bsc PA technical jobs are available in hospital health care facilities,
- clinic, nursing homes.
- Eligible for higher education such as M.Sc PA, MPA, MHA etc
- Work in many industries as Medical assistant, drug safety associates,
- Orthopaedic, Radiology, Pediatric physician assistant.

Eligibility Criteria

Candidate should have passed Higher Secondary (10+2) with Science (PCB) or equivalent examination recognized by any Indian University or a duly constituted Board with a minimum percentage of marks: 50% aggregate(PCB)



Programme Duration



Four years programme including internship

Fee Structure

B.Sc. Physician Assistant in Emergency & Trauma Care

First-year		
Tuition Fee	2,00,000/-	
Refundable Deposit	20,000/-	
Institute Enrollment & Eligibility Fees	10% of Tuition Fees (20,000/-)	
Exam Fee (Each Semester)	4,500/-	

Second-year

Tuition Fee	2,00,000/-
Exam Fee (Each Semester)	4,500/-

Third-year

Tuition Fee	2,00,000/-	
Exam Fee (Each Semester)	4,500/-	
Alumni Fee	500/-	

B.Sc. Cardiac Care Technology B.Sc. Perfusion Technology B. Optometry

Fi	rst-\	/ear

Tuition Fee	1,05,000/-
Refundable Deposit	20,000/-
Institute Enrollment & Eligibility Fees	10% of Tuition Fees (10,500/-)
Exam Fee (Each Semester)	4,500/-

|--|

Tuition Fee	1,05,000/-
Exam Fee (Each Semester)	4,500/-

Third-year

Tuition Fee	1,05,000/-	
Exam Fee (Each Semester)	4,500/-	
Alumni Fee	500/-	

B.Sc. Operation Theater & Anesthesia Technology
B.Sc. Medical Radiology & Imaging Technology
B.Sc. Medical Dialysis Technology,
B.Sc. Medical Laboratory Technology

First-year	
Tuition Fee	60,000/-
Refundable Deposit	20,000/-
Institute Enrollment & Eligibility Fees	10% of Tuition Fees (6,000/-)
Exam Fee (Each Semester)	4,500/-

Tuition Fee 60,000/ Exam Fee (Each Semester) 4,500/-

Inird-year		
Tuition Fee	60,000/-	
Exam Fee (Each Semester)	4,500/-	
Alumni Fee	500/-	

INTAKE CAPACITY FOR THE ACADEMIC YEAR 2023-24

Programmes Name	Intake Capacity
B.Sc. Medical Laboratory Technology	30
B.Sc. Medical Radiology and Imaging Technology	30
B.Sc. Medical Dialysis Technology	20
B.Sc. Perfusion Technology	05
B.Sc. Cardiac Care Technology	05
B.Sc. Operation Theatre & AnesthesiaTechnology	20
B. Optometry	20
B.Sc. Physician Assistant in Emergency & Trauma Care	20

PROGRAMMES CODE FOR ADMISSION PROCESS

Programme Name	Code
B.Sc. Medical Laboratory Technology	5006
B.Sc. Medical Radiology and Imaging Technology	5007
B.Sc. Medical Dialysis Technology	5008
B.Sc. Perfusion Technology	5005
B.Sc. Cardiac Care Technology	5004
B.Sc. Operation Theatre & AnesthesiaTechnology	5003
B. Optometry	5009
B.Sc. Physician Assistant in Emergency & Trauma Care	5012

STEPS FOR FILLING APPLICATION FORM

Steps	Procedure		
1	Visit website: <u>www.mgmuhs.com</u>		
2	Click on admission announcement for academic year 2023-24		
3	Click on application form		
4	Select UG under programmes types		
5	Click on New Registration		
6	Fill in the details,create password and save it for login		
7	Application number is sent on registered mobile number /Email		
8	Login using the received application number		
9	Read the instruction and fill the application form		
10	Save the application form and complete the online payment process		
11	Take a print of the application form for futher process		

CURRICULUM DESIGN



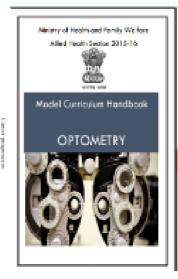
MGMSBS, NM meets standards set by University Grants
Commission. The CBCS syllabus is designed as per MoHFW
Model Curriculum (Allied Health Section 2015-16)

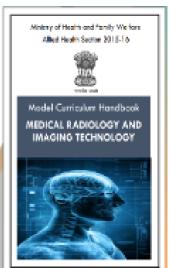
Table 2: Neuroschruse band en como propromiso for Dialoris Theorye Technologist (Proposed

Lends		endatum in rationa son		Qualification and experience
	Clinical	Academie	Industry! Management	
Level 4	Delpie Luiene (Dplomi			Diploma with 6-4 years' experience past Diploma
Lord 5	Dalyis Thougy Technologist	Descriptor	Didyes Technologie	DSc. DET with 0.4 years' cappaigner past DSc. DTT
Levi 6	Surin Dalyse Though Technologie	Claim Instructor (Digres) /Lecture (Post Graduate cells)	Surine Dialysis Technologie	"Bla. DTT with 0 years' experience past Blo. DTT "Bla. DTT with 0.1 press past Mbc. DTT
Lost?	Chal Dulyin Thougy Traheckgin	Series Ginical Instructor Degree or Amistan: Professor (Past Gradum only)	Chaf Balyin Technologie	*Bit. DET with 8 years' experience pass Bit. DET *9Bit. DET with 8 years poor bits. DET *Phil with 6-1 years poor Bit.)
Level 8	Diguis Manager for Dulyis Thougy Unit	Assopate Professor (Post Graduate only)	Deputy Manager for Dialysis Technology	"Bic DIT with 12 year" experience post BSc. "MSc. DIT with 8 years post MSc. DIT "PsD with 4 years post PsD
Lost?	Additional Dentition for Dailysis Therapy Unit	Perform Plan Graduate (rely)	Additional Discourties Dulpid Technology	*Mic DTT with 16 years' reporture you Mic DTT *Mic DTT with 12 years you! Mic DTT *PhD with 8 years you PhD
Levil 10	Display for Dalysis Thompsy Unit (WEED)	Draw / Principal) (Past Gradum soly)	Disease for Dalysis Technology	*Ble. 1977 was 20 years' experience part Ble. 1977 *Bibs. DET with 14 years part

MODEL CORRECTED HANDROOK OF DIALYSIS THERAPY TRANSPORTED

ne 32 of 156





Curricular Enrichment Field Visit, Research Projects, Industry Internships

01 Field Visit

Old age homes, Visits to Healthcare delivery centres: PHC, water purification plant, sewage treatment plant, medical camps.

Industry Internship

03

KEM Hospital, NIN, CCMB, Glaxo-smithkline, Apollo hospital

Research Project

12

Apollo speciality hospitals Pvt Ltd., Advanced Centre for Treatment, Research and Education in Cancer, NIRRH, Lilac Insights Private Limited HiMedia Laboratories Pvt Ltd, Bai Jerbai Wadia Hospital for Children, etc

Community Postings

Comunity settings – rural/urban setups. School health screening, Health education program,

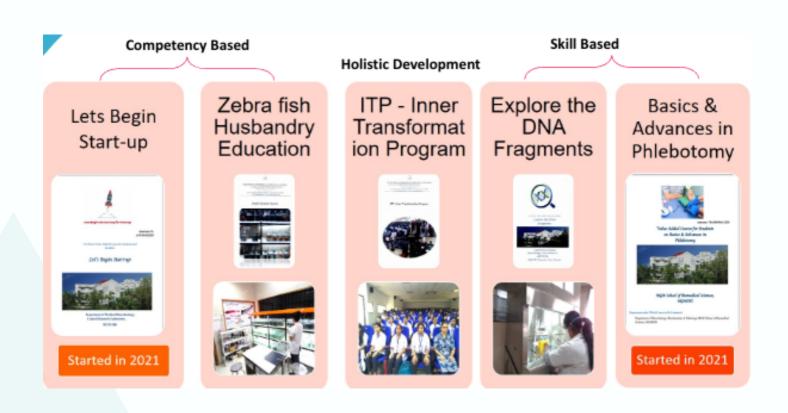


04

VALUE ADDED COURSE



MGMSBS, NM offers various value-added courses designed to provide students with essential skills and to enhance the standard of the students beyond the academic curriculum.



INFRASTRUCTURE

MGMSBS, NM has well-equipped dedicated classrooms equipped with ceiling-mounted fixed overhead LCD projectors and a voice reinforcement facility with chalkboards, a white screen, and well-spaced seating arrangements.





MGMSBS, NM has well-equipped labs providing the best environment for practical and research work.

MGMIHS, NM Library offers a diverse collection of books, eBooks, DVDs and online databases, as well as a number of services including research, aiding to enhance knowledge of its students.





B.Sc. Medical Dialysis Technology





B.Sc. Perfusion Technology





B.Sc. Cardiac Care Technology





B.Sc. Medical Imaging Technology









B.Sc. Medical Laboratory Technology





B. Optometry







B.Sc. Operation Theatre & Anesthesia Technology







B.Sc. Physician Assistant





WELLNESS EDUCATION



Heartfulness was introduced to the students of MGMSBS,NM thereby enabling them to realize the beauty of Inner Peace and understanding the importance of Heartfulness meditation and its impact on one's day-to-day life.









AWARDS AND ACHIEVEMENTS



MGMSBS,NM encourages participation in various Inter-college and National-level competitions both in the field of academics and research promoting all-round development









EXTRA-CURRICULAR ACTIVITIES



MGMSBS,NM helps students to learn and develop their skills and knowledge in different contexts through industrial visits, cultural sports activities













INDUSTRIAL VISITS

















OUTREACH ACTIVITIES



MGMSBS works for the upliftment of the society by organizing and participating in various outreach activities thereby inculcating the value of community service within its students











RESEARCH AND INNOVATION



MGMSBS is extensively involved in the field of research and innovation with a talented team of research scholars and has various patent, publication, books and chapters to its credit

Extramural Funding

Name of the Project	Principal Investigator	Funds provided (INR in Lakhs)
Hands-on Training Programme on Zebrafish in Biomedical Research and Drug Development	Dr Mansee Thakur, Dr Yogesh Patil, Dr Sameer Pachpute, Dr Harapriya Kar	4,400,000.00
Molecular Diagnostics of Infectious Diseases - Let's analyse the Nucleic acids of Pathogens	Dr Himanshu Gupta , Dr Mansee Thakur	4,600,000.00
Development of comprehensive nutrition intervention to prevent hidden hunger among adolescent girls	Dr Priyanka Pareek	3448200
Impact of Micronutrient fortifoed Rice with Vitamin C rich food on iron status of anemicschool age children (6-12 years)	Dr Priyanka Pareek	2850000
Confirmation of Nano-Particle Hypothesis with Respect to Homeopathic Medicines	Dr. Mansee Takur	2255100

RESEARCH FACILITIES



Zebrafish Facility



Pathology Lab



Genetics Lab



Molecular Lab



Omics Lab



Hydroponic Facility

RESEARCH AND INNOVATION

PUBLICATION AND COPYRIGT

MGMSBS,NM has over 142 publications and 41 copyrights to its credit





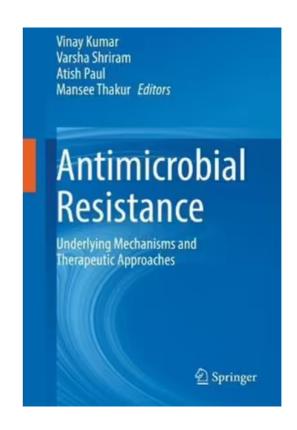
Book



Himanshu Gupta Mansee Thakur Dipty Singh

Reproductive Toxicity assessment of gold and silver nanoparticle





RESEARCH AND INNOVATION

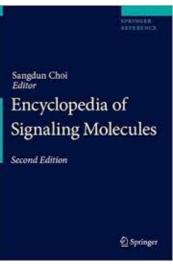
Chapter

- Green Synthesis of Iron Oxide Nanoparticles and Its Biomedical Applications
- Development and Validation of Indigenously developed DNA Detection System for M. tuberculosis.2021
- Validation of in House PCR Using IS6110 for Detection of M. tuberculosis and Its Comparison with ZN Staining, Cultures and RT PCR Kit Methods. InTechno-Societal 2016, International Conference on Advanced Technologies for Societal Applications 2016 Dec 20 (pp. 599-609). Springer, Cham.
- Sustainable raft based hydroponic system for growing spinach and coriander. In Techno-Societal 2016, International Conference on Advanced Technologies for Societal Applications 2016 Dec 20 (pp. 117-125). Springer, Cham.
- Role of Gene Xpert in Early Diagnosis and Treatment of Tuberculosis. In Techno-Societal 2016, International Conference on Advanced Technologies for Societal Applications 2016 Dec 20 (pp. 623-627).
 Springer, Cham.
- In: Encyclopedia of Signaling Molecules. Springer New York; 2018. p. 1–8. DOI: 10.1007/978-1-4614-6438-9_102001-1









FEEDBACK

"I would like to express my sincere gratitude to MGM SBS for getting the bachelor's degree in MLT and helping me at each and every step of my career. I thank our Director, Dr. Mansee Thakur Mam and the Co-ordinator of MLT Anamika Chalwadi Mam, HOD, and the entire team of MGM SBS who always supported and motivated us to have a positive attitude who always pushed us to improve our perspective, knowledge, and perception better than before. The Institute provided me with the best platform and infrastructure to excel in my career interest. -- Ms Pratiksha Gondkar

Studies at MGM IHS provided a positive outlook towards life. I completed my bachelor's in Perfusion technology from MGM SBS, Kamothe in 2017. The base of medical knowledge that was laid down from MGM helped me receive a scholarship and I presently pursuing my medical studies in Europe -- Liya Elza John

Cardiac care technology was the specialization of my interest. Getting into this institution was like a dream come true. With extremely talented faculty members and mentors, I actually explored myself to the new areas of Cardiac care. This course not only taught me different technical aspects but also gave me the confidence to work in a hospital with reputed cardiologists.

-- Prema Shewale

My four years of Bachelor's in science in optometry in MGM school of Biomedical science was a great experience. It is here where I met many precious people as my colleagues, teachers and staff. The curricular is well planned to give theoretical and practical knowledge. The department is helpful and friendly during the clinical posting which helped me develop as a professional optometrist.-- Tarik Malik

GRADUATE ATTRIBUTES



Dynamic Professionalism



Exemplary Leadership



Effective Communication Skills



Scholarly Attitude



Critical Thinking



Research Enthusiasm



Social Commitment



Global Competancies

