

RANKED
AMONGST

1st

TOP 30
BEST UNIVERSITIES
IN THE COUNTRY

NAAC
ACCREDITED PRIVATE
UNIVERSITY IN RAJASTHAN
OFFERING QUALITY ACADEMIC
PROGRAMS



Approved by
UGC / AICTE
BCI / MCI / NCTE



JAIPUR NATIONAL UNIVERSITY

(A Venture of the Seedling Group of Educational Institutions)



ICRI Collaboration
(Institute of Clinical Research, India)

SCHOOL OF ALLIED HEALTH SCIENCES

B.Sc. Anaesthesia Technology



Course Summary: Anaesthesia is the study of use and effects of various kinds of anaesthetics to human beings. It imparts the basics of intensive transfusion therapy, pharmacology and pharmacodynamics of inhaling anaesthetics, anaesthesia in traumatology and orthopaedics, paediatrics and neonatology, toxicology and the likes others. The main objective of B.Sc. in Anaesthesia Technology course is to equip students with the knowledge of anaesthetic equipment, their usage and how to monitor the patients.

The course has both theoretical and practical ways of helping the students in becoming successful anaesthetists and deploying their knowledge in operation theatres before the beginning of an operation. Sometimes they also have to perform these tasks during or even after the surgery. The students are also taught about anaesthesia supplies and anaesthesia technology. They are taught in a way that they have good knowledge not just of anaesthesia techniques but also of techniques pertaining to operation theatres.

Duration: 4 Years (3 Years Academic + 1 Year Internship)

Eligibility: 10+2 (MPC, BPC)

Intake: 30 seats

Career Opportunity:

Anaesthetic technicians are mainly employed by anaesthetic departments or operating theatre suites, but can be found in other areas of clinical practice including emergency departments, intensive care units (ICU) and day surgery clinics.

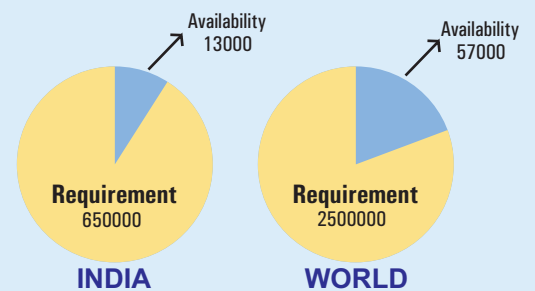
Anaesthesiologist Assistant: Works under the direct supervision of the supervising medical anaesthesiologist, and monitor patients under anaesthesia.

Cardiac Anaesthetist: Offer assistance in heart surgeries by performing anaesthesia-related procedures

Anaesthesia Technician: Assist anaesthesiologists by performing duties prior to, during, and post-surgical procedures.

Paediatrics Anaesthetist: Manage pain in patients from new born to teenagers before and after surgery. Also monitor patients' vital signs like body temperature and heart rate, during surgery

Obstetrics Anaesthetist: Work with obstetrician, neonatologist and labour and delivery ward nurse to make sure the highest quality care for the mother and the baby is given. They give anaesthesia for perinatal operative procedures through general and regional anaesthesia



Availability & Requirement of Anaesthesiologists Technology Graduates
Source : (PHF India)



GE Aespire Components and Controls

B.Sc. Cardio vascular technology



Course Summary: Cardio vascular technology is an area of specialization for allied health professionals. Cardio Vascular Technologists assist physicians in diagnosing and treating cardiac (heart) and peripheral vascular (blood vessel) conditions preparing patients for open-heart surgery implanting pacemakers monitoring patients during these procedures performing cardiac stress tests and electrocardiograms using and maintaining the medical equipment that catches irregular heartbeats working in laboratory settings on real patients management of various cardiac disorders having complex diagnostic and therapeutic procedures. Cardiac Technologists use diagnostic cardiology equipment and monitor resultant data typically in assistance to a physician. During cardiovascular testing a tube is inserted into one of the blood vessels that carries blood into the heart.

They may specialize in three areas of practice: invasive cardiology, echocardiography, and vascular technology

Cardiovascular technicians who specialize in electrocardiograms (EKGs), stress testing, and Holter monitoring are known as cardio graphic or EKG technicians. Hence, they may conduct or assist in conducting electrocardiograms, performing cardiac catheterizations, assessing pulmonary functions, lung capacity, and similar tests.

Duration: 4 Years (3 Years Academic + 1 Year Internship)

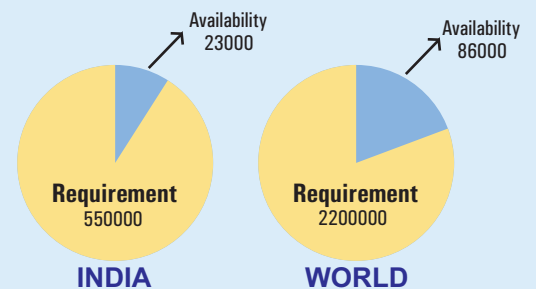
Eligibility: 10+2 (MPC, BPC)

Intake: 30 seats

Career Opportunity:

There are many other sectors which can be pursued by the graduates. Here is a list of career paths that can be pursued in the different medical sectors.

- **Cardiovascular Technologist:** Cardiovascular technologists undergo specific didactic, laboratory, and clinical technological education to perform various cardiovascular/peripheral vascular diagnostic and therapeutic procedures.
- **EKG technicians:** Cardiovascular technicians who specialize in electrocardiograms (EKGs), stress testing, and Holter monitoring are known as cardio graphic or EKG technicians.
- **Echo Cardiographer:** Echocardiography is the study of the heart where the technician studies the filling time of blood in the atrium and ventricles. This is a diagnostic test to rule out underlying health problems.
- **Cath Lab Technician:** Cardiac catheterization is the procedure that is performed to assess the number of blocks in the heart's blood vessels.
- Invasive cardiovascular laboratories
- Non-invasive cardiovascular laboratories



Availability & Requirement of Cardio Vascular Technology Graduates
Source : (PHF India)



B.Sc. Forensic Science



Course Summary: B.Sc. Forensic Sciences is a 3-year graduate course in the domain of forensic studies. The course includes crime scene investigation techniques, advanced chemical and microbiological analysis and specialist areas such as forensic entomology and forensic anthropology. It fulfils the growing demand for expertise in investigatory, enforcement and monitoring work, including an incident scene investigation, physical evidence collection, and laboratory analysis of evidence and defence of testimony.

Students will learn the various theories of crime and deviance in society that form the basis of criminal law and the criminal justice system of the country. Upon graduation, graduates will be able to perform crime scene investigation, analysis and report writing and expert in the court of law. Also appreciate the concept of a civil community that respects the rights and property of others and abhors violence, theft and exploitation of others.

Forensic Science is broadly grouped into three Types: Medical, laboratory and field science.

Medical/Data medicine includes forensic pathology, psychiatry, psychology, forensic medicine and odontology (dentistry).

Laboratory Sciences include chemistry, biology, toxicology, ballistics, fingerprints, questioned documents and marks & impressions.

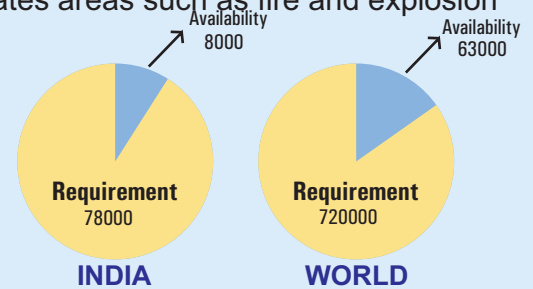
Field Sciences include crime scene investigation which incorporates areas such as fire and explosion scenes and clandestine drug laboratories.

Duration: 4 Years (3 Years Academic + 1 Year Internship)

Eligibility: 10+2 (MPC, BPC)

Intake: 30 seats

- Forensic Expert
- Investigative Officers
- Crime Scene Investigator
- Forensic Scientist
- Teacher/Professors
- Law Consultant
- Crime Reporter
- Forensic Engineer
- Handwriting Expert
- Fingerprint Expert
- Forensic Linguists
- Forensic Chemists
- Forensic Pathologists
- Forensic Anthropologists
- Forensic Geologists
- Forensic Photographer
- Forensic Artists and Sculptors



Availability & Requirement of Cardio Vascular Technology Graduates
Source : (PHF India)



B.Sc. Optometry



Course Summary: B.Sc. Optometry or Bachelor of Science in Optometry or Ophthalmic Optics is an undergraduate Optometric course. Optometry is a health care profession which is concerned with the health of the eyes and related structures. B.Sc. (Optometry) degree course includes the study of the examination, diagnosis, and treatment of eyes, especially related to visual, optical symptoms, refractive errors and their correction, using lenses and other optical aids.

The B.Sc. (Optometry) degree course covers the study of vision screening (eye testing), diagnosis of visual problems, orthoptics, and vision training, optometric counselling of patients with partial sight, colour blindness and hereditary vision defects, and designing and fitting of spectacles, contact lens, and low vision aids. The duration of the course is three years (four years in some universities which include one year of internship) and it is an important and career orienting in nature which provides widespread scopes to the candidates.

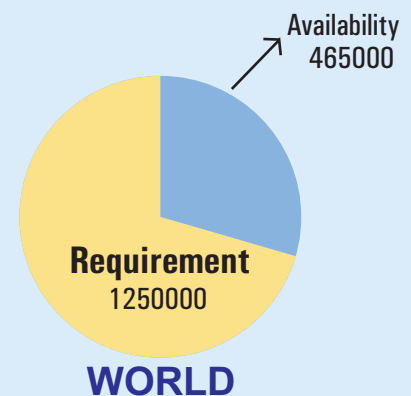
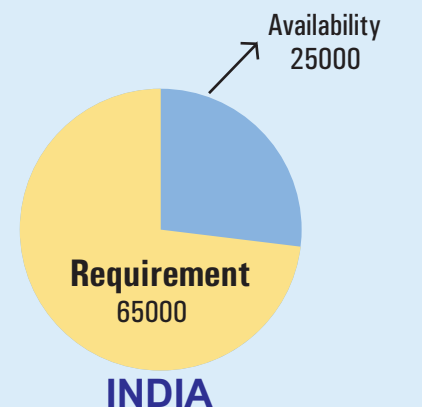
Duration: 4 Years (3 Years Academic + 1 Year Internship)

Eligibility: 10+2 (MPC, BPC)

Intake: 30 seats

Career Opportunity:

- **Eye :** Examine the eyes, using observation, instruments, and pharmaceutical agents, to determine visual acuity and perception, focus and coordination, and to diagnose diseases and other abnormalities such as glaucoma or colour blindness
- **Eye Clinics:** Prescribe therapeutic procedures to correct or conserve vision
- **Optical Shops:** Prescribe, supply, fit, and adjust eyeglasses, contact lenses and other vision aids
- **Contact Lens and Ophthalmic lens industry:** Prescribe, educate and counsel patients on contact lens care, visual hygiene, lighting arrangements, and safety factors
- Hospital Eye Departments
- Optician Showrooms
- Lens Manufacturing Units
- Multinational Companies dealing with Eye Care Products as Professional Services Executives



Availability & Requirement of Optometry Graduates
Source : (PHF India)

B.Sc. Operation Theatre Technology



Course Summary: B.Sc. in Operation Theatre Technology course is identified with all the work and management of the operation theatre. The program prepares candidates for managing the patients and in addition to observing the intricate detail of an operation theatre. During the study, the candidates are responsible for caring for all the surgical instruments and additionally their disinfection and sterilization. Candidates help the specialist amid operations and nearly take care of the medications, anesthetic gases, curtains, and sterilization necessities during surgery.

B.Sc. in Operation Theatre Technology program means to understand the Ethics, Layout of Operation Theatre as well as Handling the equipment. They will provide help to Surgeons, Specialist, Anaesthesiologists, and Nurses. The primary undertaking of Operation Theatre Technician is to help Doctors in Surgery, masterminding surgical instruments before surgery, cleaning instruments before surgery, obeying surgeons order amid surgery or crisis strategies and dealing with anesthesia equipment. Operation Theatre Technologists are required across all hospitals who conduct surgeries such as General Surgery, Plastic Surgery, Neurosurgery, Gynaecology Surgery, and Urology etc.

They take care of smooth working of ICUs, CCUs and Operation theatres in healing facilities and centers. Government and private healing centers and facilities having surgical wards hire operation theatre professionals. After higher examinations, one may likewise wear the part of an educator or instructor at important preparing foundations.

Duration: 4 Years (3 Years Academic + 1 Year Internship)

Eligibility: 10+2 (MPC, BPC)

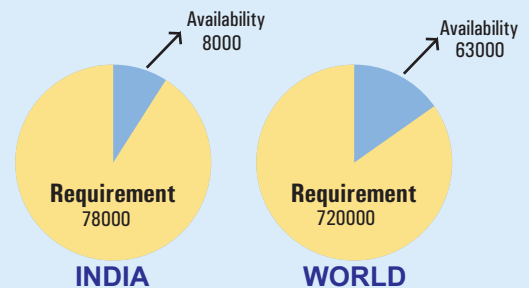
Intake: 30 seats

Career Opportunity:

After pursuing a course in Operation Theatre Technology, the career prospective for OTT graduates are good. Like many other fields in medicine, there is a dearth in the number of Operation Theatre Technologists/Technicians. Moreover, there is a need for OT Technicians in almost every field of medicine, like General Surgery, Neurosurgery, Plastic Surgery, Urology, Gynaecology, and much more. Here are some job profiles that are available for OTT graduates:

Operation Theatre Technologist: Monitor and continually assess operating room conditions, including patient and surgical team needs
Operation Theatre Assistant: Prepare patients for surgery, including positioning patients on the operating table and covering them with sterile surgical drapes to prevent exposure

- Lab Technician
- Anaesthesiology Consultant
- Associate Consultant
- Teacher & Lecture



Availability & Requirement of Operation Theatre Technology Graduates
Source : (PHF India)



B.Sc. Medical Imaging Technology



Course Summary: B.Sc. Medical Imaging Technology or Bachelor of Science in Medical Imaging Technology is an undergraduate Medical Lab Technologist course. Medical imaging technology is the technique and process used to create images of the human body or parts and function thereof for clinical purposes (medical procedures seeking to reveal, diagnose or examine disease) or medical science including the study of normal anatomy and physiology. Although imaging of removed organs and tissues can be performed for medical reasons, such procedures are not usually referred to as medical imaging, but rather are a part of the pathology

The course has been designed to impart advanced and specialized technical training to eligible candidates in medical imaging techniques such as CT scan and MRI, specialized PACS and QM, and other regular procedures.

The Bachelor of Science in Medical Imaging program provides students with a diversified plan of study in advanced imaging (CT and MRI), healthcare management, technical support knowledge (PACS and QM), and general studies in a balanced curriculum to prepare them for advancement in multiple career roles or continuation to graduate study. Employment opportunities include: -

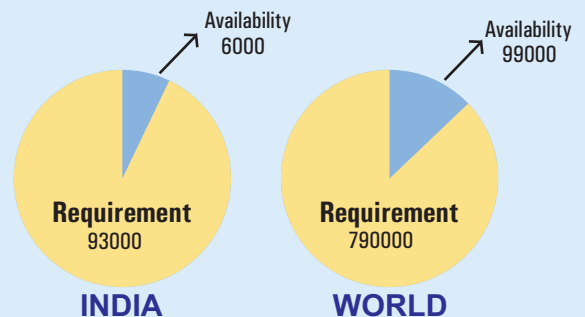
Duration: 4 Years (3 Years Academic + 1 Year Internship)

Eligibility: 10+2 (MPC, BPC)

Intake: 30 seats

Career Opportunities:

- Advanced Imaging Modalities (CT or MRI)
- Healthcare Management or Administration
- PACS Administration
- Radiologist Assistant
- Diagnostic Centres
- Doctor's Offices
- Educational & Research Institutes
- Hospitals
- Radiology Clinics
- Diagnostic Centres
- Doctor's Offices
- Educational & Research Institutes
- Hospitals
- Radiology Clinics



Availability & Requirement of Medical Imaging Technology Graduates

Source : (PHF India)





JAIPUR NATIONAL UNIVERSITY

(A Venture of the Seedling Group of Educational Institutions)



University Address :

Jaipur - Agra Bypass, Near New RTO Office, Jagatpur, Jaipur - 302 017

Contact us : +91 8529517090, +91-7993950554

South Zone Offices :

303, ACE Krishna Prime Towers, Behind Omni Hospital, Kothapet, Hyderabad - 500 035.

40-5/3-13, Tickle Road, Hotel DV Manor Lane, Vijayawada - 10.

Contact us : +91 8184833822

E-mail: agbsc.jnu@gmail.com / website : www.jnujaipur.ac.in