14 LIFE BELOW WATER

SUSTAINABLE DEVELOPMENT GOALS

66th RANK GLOBALLY

1st RANK IN INDIA

NITTE
(Deemed to be University)
Where there is space for every dream

NITTE UNIVERSITY CENTRE FOR SCIENCE EDUCATION & RESEARCH

Paneer Campus, Deralakatte, Mangaluru - 575 018, Karnataka, India

12

Years, Countless Smiles

Nitte University is ranked among
India's Top 10 Universities

Times Higher Education
Impact Rankings
2024

Justice
K S Hegde
Founder (1909 - 1990)

About the Management

Nitte Education Trust was founded in 1979 by Late Justice K S Hegde, former Judge of the Supreme Court of India and Speaker of the Lok Sabha. Justice Hegde strongly believed that education is pivotal to the overall progress of a community and this vision led to the birth of Nitte Education Trust. His legacy is being continued by his son, Mr N Vinaya Hegde.

About Nitte University

Nitte University has been consistently ranked among the top 100 Universities in India in the National Institutional Ranking Framework (NIRF) by the Ministry of Education, GoI and is accredited with A+ Grade by the National Assessment and Accreditation Council of India (NAAC). The University offers undergraduate, postgraduate and doctoral programs in a variety of disciplines. International affiliations, encouragement to academic research, a strong emphasis on sustainability and a healthy student connect are the hallmarks of this growing university.

Hall of Fame

NITTE
(Deemed to be University)
NAAC ACCREDITATION
A+ GRADE

NITTE
(Deemed to be University)
NIRF UNIVERSITY RANKINGS 2024
66

NITTE
(Deemed to be University)
THE WORLD UNIVERSITY RANKINGS 2025
1501+

NITTE
(Deemed to be University)
QS SOUTHERN ASIA RANKINGS 2024
143

NITTE
(Deemed to be University)
THE IMPACT RANKINGS 2024
301-400 BAND

ABSMIDS
NIRF DENTAL RANKINGS 2024
6

NGSMIPS
NIRF PHARMACY RANKINGS 2024
41

NMIT
NIRF ENGINEERING RANKINGS 2024
101-150 BAND

NMAMIT
NIRF ENGINEERING RANKINGS 2024
151-200 BAND

NGSMIPS
NBA ACCREDITED
BPHARM

NMAMIT
NBA ACCREDITED
UG PROGRAMS

NMIT
NBA ACCREDITED
UG PROGRAMS

ABOUT THE INSTITUTION

Nitte University Centre for Science Education & Research is an independent teaching / research institute under Nitte University. The Centre offers niche programs that have great potential for employment in research. The programs are highly interdisciplinary, application oriented, skill based and provide a perfect platform for those who aspire to take up a career in advanced research and development.

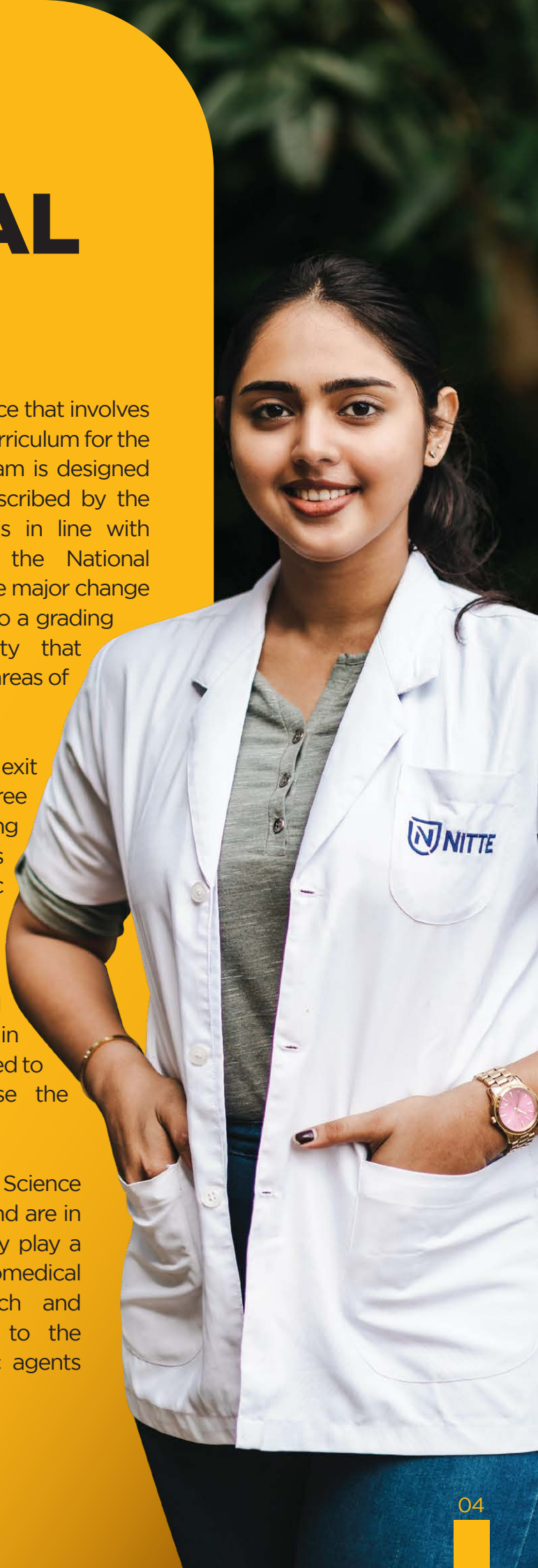
The curriculum is structured to help students not only acquire and develop theoretical knowledge but also gain practical experience in high-end molecular techniques and tools used in biological research. The impetus is on “One Health” and the various infectious, non-infectious, zoonotic and environmental issues affecting human health. The Centre offers undergraduate, postgraduate and doctoral programs in Biological Sciences.

ABOUT BIOMEDICAL SCIENCE

Biomedical Science is an interdisciplinary science that involves the study of human health and diseases. The curriculum for the 4-year BSc (Hons) Biomedical Science program is designed on Choice Based Credit System (CBCS) prescribed by the University Grants Commission (UGC) and is in line with international trends and compliant with the National Education Policy 2020 framework. In CBCS, the major change is a shift from the traditional marking system to a grading system which provides academic flexibility that translates to greater choice for students in the areas of study.

The program has a provision for students to exit with a BSc Biomedical Science degree after three years. The fourth year offers job-oriented training with opportunities for internships in industries and research experience at premier academic institutions. Those opting for the research stream in the fourth year will be awarded the degree "Honours with Research" while others opting for advanced courses will be awarded "Honours" degree. Nitte is the first University in Karnataka to offer this unique program, designed to provide wider career options and increase the employability of the students.

Graduates and postgraduates in Biomedical Science have recognition in international universities and are in great demand in the healthcare industry. They play a crucial role in diagnostic services, biomedical instrumentation, drug development, biotech and pharmaceutical industries, by contributing to the development of new diagnostics/therapeutic agents and providing regulatory services.



FACULTY

Director

Prof (Dr) Anirban Chakraborty

An academic researcher with more than two decades of experience in molecular biology and biomedicine and has over 65 research publications in reputed International journals with a high citation index to his credit. He is the co-founder of the Consortium of Rare Genetic and Bone Marrow Disorders, (N-CRG.BMD|IN), a first-of-its-kind network of clinicians and researchers in the country.

The complete list of teaching faculty is available at **nitte.edu.in/nucser**

PROGRAMS

BSc (Hons) Biomedical Science

Intake: 60 | **Duration**: 4 years (8 semesters)

Eligibility

Pass in Class 12 with not less than 50% marks in aggregate in Physics, Chemistry and Biology with English as one of the languages of study. The candidate should have completed 17 years of age as on 31st December of the year of admission.

Program Content

Core courses

These compulsory courses spread across six semesters include:

- Basics of Human Anatomy
- Physiology & Pathology
- Physical & Inorganic Chemistry
- General & Clinical Biochemistry
- Cell & Developmental Biology
- Basic & Medical Microbiology
- Fundamental & Clinical Genetics
- Immunology
- Molecular Biology
- Pharmacology & Toxicology
- Radiation & Cancer Biology
- Bioinformatics & Biostatistics
- Genetic Engineering
- Biophysics & Instrumentation
- Biotechnology

Elective courses

Electives are generic or discipline-specific, allowing students to choose from a pool of courses. These courses may be very specific, specialized, advanced or supportive to the discipline/subject of study.

Generic electives

- Nutrition & Dietetics
- Food Spoilage & Preservation
- Principles of Pharmacology
- Bioprocess Technology
- Herbal Medicines
- Biomaterials & Tissue Engineering
- Plant Biotechnology
- Stem Cells & Regenerative Medicine

Discipline-specific electives

- Toxicology
- Nanobiotechnology
- Epidemiology
- Medical Virology & Biotechnology
- Systems Genetics

Skill Enhancement Courses

These courses provide an opportunity to improve skills and enhance knowledge in the areas related to biomedical science. In the final semester, students have the option to undertake a short research project as an alternative to a discipline-specific elective paper. The introduction of a research component at the UG level provides the perfect platform for a career in advanced research & development and to further their research skills in postgraduate studies.

Non-credit Courses

These courses are aimed at the development of personal, intellectual, aesthetic, social, moral and emotional capabilities. One non-credit course is included per semester and a total of six such courses are offered. Some examples are Good Laboratory Practices, Biosafety & Bioethics, Personality Development & Soft Skills, Basic Life Support & First Aid, Intellectual Property Rights & Patents and Innovation & Entrepreneurship.

ADMISSION PROCEDURE

The University admits candidates under General & NRI categories.

Admission under General Category

Candidates who are Indian nationals and have studied Class 12 in India, fall under the General category. Admission to BSc (Hons) Biomedical Science program under General Category is based on merit in the All India Entrance Test - NUCAT (Nitte University Common Admission Test). Aspirants for NUCAT will have to complete and submit the Online NUCAT registration form available at **apply.nitte.edu.in**

Admission under NRI category

The following are eligible for direct admission under NRI category based on marks secured in PCB subjects in Class 12:

- Foreign Nationals / PIOs / Overseas Citizens of India
- Candidates who have passed Class 12 outside India
- Candidates who have passed Class 12 in India, but sponsored by parents / blood relatives having NRI status

Candidates seeking admission under NRI category are required to submit the Admission Enquiry form available on **apply.nitte.edu.in** On receipt of the same, the Admission Section will guide students with the process of registration and admission.

The fee structure is made available on **nitte.edu.in** under Program Fee.

Documents required for admission to BSc (Hons) Biomedical Science

- Class 10 Marks Card (Original + 2 attested copies)
- Class 12 Marks Card (Original + 2 attested copies)
- Transfer Certificate from the institution last attended (Original + 2 attested copies)
- Conduct Certificate from the institution last attended (Original)
- Migration Certificate from the Board of the institution last studied (Original)
- Eligibility Certificate issued by Nitte University (This will be handled by Nitte)
- Physical Fitness Certificate from a registered medical practitioner (Original)
- Blood Group Certificate (Original)
- Aadhaar card copy of the student
- Photographs: Recent colour photo with white background, of resolution 300-600 dpi Passport size 5 Nos. (35mm x 45mm) & Stamp size 5 Nos. (20mm x 25mm)

Additional Documents for NRI category

- Valid Passport & Visa of sponsor
- Residence Permit of sponsor
- Employment Certificate of sponsor
- Relationship Certificate of sponsor
- Sponsorship Certificate of sponsor
- Fee payment shall be in foreign currency/INR from NRE account of sponsor

POSTGRADUATE PROGRAMS

MSc (Biomedical Science)

Intake: 8 | **Duration**: 2 years (4 semesters)

In this program, the focus is on gaining advanced knowledge in the field of biomedicine. The program covers all aspects of human diseases including the disorders caused by infectious agents, genetic conditions, environmental pollutants and toxicants.

MSc (Food Science & Technology)

Intake: 20 | **Duration:** 2 years (4 semesters)

Food Science & Technology is a multidisciplinary field that applies scientific principles to the selection, preservation, processing, packaging, distribution and safety of food. The scope encompasses a range of processes from the selection and preservation of raw materials to advanced packaging techniques & distribution strategies, each aimed at meeting the increasing demands for safety, efficiency and sustainability in the food supply chain. Advances in process control & automation have allowed for more consistent quality and reduced waste, ensuring that processing techniques meet both regulatory standards & consumer expectations. The program has been designed to provide students with theoretical knowledge & practical skills applicable to the food processing & catering industries, food quality control sectors & research.

MSc (Biotechnology)

Intake: 15 | **Duration:** 2 years (4 semesters)

This program aims to gain an in-depth understanding of handling biological systems and biomolecules. It prepares students to conduct research relevant to social needs and practice bioethics and biosafety in scientific research. It also aims to generate potential career paths in life sciences, which will offer solutions to emerging challenges in the food health and environment sectors.

MSc (Bioinformatics)

Intake: 10 | **Duration:** 2 years (4 semesters)

There has been a paradigm shift in our approach to collect biological data in recent years. With the advent of the concept of OMICS (study of the relationships & actions of different molecules that make up the cells of an organism), a number of new technologies are in use to collect these data, but informatic tools that decipher meaningful information out of such data are limited. There is a dearth of skilled manpower equipped to carry out the analysis of OMICS data.

MSc Bioinformatics program aims to improve the knowledge & rational mindset of candidates and advance their skills (programming, statistical analysis, data analytics, project management, collaboration, communication etc.) & expertise in biological data analytics. The employment opportunities include industrial career in companies related to biotech/pharma/data analytics, entrepreneurships or higher studies in the form of PhD in biological data analytics both in India & abroad.

MSc (Microbiology)

Intake: 15 | **Duration:** 2 years (4 semesters)

The program aims to impart knowledge about complex life processes in microorganisms and enable students to gain an in-depth understanding of the significance and applications of microorganisms. It is a research-intensive program that prepares students to formulate and solve research hypotheses in microbiology. Students will be trained to practice and conduct responsible research relevant to social needs which abide by the bioethics and biosafety regulations. The program focuses on the application of knowledge and offers solutions to emerging challenges in one's health.

MSc (Marine Biotechnology)

Intake: 5 + 10 (DBT sponsored seats) | **Duration**: 2 years (4 semesters)

The focus in Marine Biotechnology program is to provide appropriate theoretical knowledge and laboratory skills for the development of various biotechnological tools and technologies in marine sciences and to implement the needs of the economy through marine entrepreneurship, study of marine environmental systems and fisheries, and the development of marine biotechnological processes. The program provides training in basic and advanced skills meant to empower youth to develop the sustainable strategy of harnessing the marine environment for food, medicines and other resources.

Candidates who apply for DBT sponsored seats should have qualified in Graduate Aptitude Test - Biotechnology (GAT-B). Selection of students with DBT sponsorship will be based on inter-se-merit considering their GAT-B ranks.

MSc (Cancer Biology)

Intake: 7 | **Duration:** 2 years (4 semesters)

The program in Cancer Biology provides an in-depth understanding of the processes involved in malignant transformation of cells, the factors that influence these processes, the current status on the various therapeutic options available and the opportunity to explore future treatment options through scientific reasoning. The first year of the program comprise of courses that introduce the students to the fundamental processes in human health including Human Anatomy, Physiology, Immunology, Biochemistry, Cell & Molecular Biology and the basics of Cancer Biology. The first year curriculum also includes specialised courses that are crucial to developing research acumen including cancer bioinformatics, research methodology & statistics, ethics and biosafety. The second year of the program includes discipline-specific core courses linked to genetics and pathology of cancer, besides the opportunity to carry out a full-fledged research project on contemporary topics in cancer. The curriculum is designed such that it allows the students to combine theoretical knowledge with the practical applications in the field of cancer biology, with an emphasis on the latest advances in this field including immunotherapy, precision medicine and personalised genomics. This program therefore caters to a wide variety of careers including opportunities in cancer-speciality hospital laboratories, commercial biomedical laboratories, research institutes, pharmaceutical companies and academic institutions.

Highlights

The highlights of the CBCS curriculum offered in the Master's program are:

- Emphasis on practicals in the curriculum (70%)
- Two semesters dedicated to research
- Credits for extracurricular activities

Eligibility

Bachelor's degree in Applied Biological Sciences / Biomedical Science / Biotechnology / Biochemistry / Microbiology / Agricultural Sciences / Food & Nutrition / Environmental Science / Veterinary Science / Fisheries Science / BE or BTech in Biotechnology / Graduates in Medicine / Dentistry / Pharmacy / Nursing or any other equivalent life science degree from a recognized university, with a minimum of 50% marks in aggregate.

One Year MSc

Intake: 25 | **Duration:** 1 year (2 semesters)

The One-Year MSc Program is exclusively for those students who have graduated with a 4-year UG program in any branch of Biological Sciences with (Honours). It provides an opportunity for original study or investigation in the major or field of specialization, on an individual and more autonomous basis at the postgraduate level. The program is instituted as per NEP recommendations & UGC guidelines and is structured on Choice-Based Credit System (CBCS) with options for specializations - Biomedical Science | Biotechnology | Bioinformatics | Cancer Biology | Food Science & Technology | Microbiology. The students can select any one option based on their interest.

For the award of one-year MSc degree, a candidate shall earn a total of 40 credits. Students entering 1-year PG after a 4-year UG program will complete course work & research, depending on their CGPA as mentioned below:

- Candidates with 4-year UG degree under the category of Honours with Research (CGPA ≥ 7.5 at the end of VI semester and have completed 12 credits research project in IV year of UG degree program) will have 32 credits for research and 8 credits for course work.
- Candidates with 4-year UG degree under the category of Honours (CGPA ≤ 7.5 at the end of VI semester) will have 21 credits for research and 19 credits for course work.

The second semester will have only research and will be common for both the groups.

Eligibility

Candidates must have passed minimum four years of Bachelor's Degree BSc (Honors) / BSc (Honors) with Research in Basic / Applied Biological Sciences (Biomedical / Bioscience / Biotechnology / Biochemistry / Microbiology / Agricultural Sciences / Food & Nutrition / Environmental Science / Veterinary Science / Fisheries Science and any other equivalent Life Science Honors Degree with Research of any University with not less than 50% marks in aggregate.

Admission Procedure

Students seeking admission to MSc programs are required to submit the Admission Query form available on **apply.nitte.edu.in**

On receipt of the same, the Admission Section will guide students with the process of registration and admission. Admission to MSc programs are based on merit in the qualifying examination.

The fee structure is made available on **nitte.edu.in** under Program Fee.

Documents required for admission to MSc Programs

- Class 10 Marks Card (Original + 2 attested copies)
- Degree Marks Cards of all years (Original + 2 attested copies)
- Provisional Degree / Degree Certificate (Original + 2 attested copies)
- Transfer Certificate from the institution last attended (Original + 2 attested copies)
- Conduct Certificate from the institution last attended (Original)
- Migration Certificate from the University last studied (Original)
- Eligibility Certificate issued by Nitte University (This will be handled by Nitte)
- Physical Fitness Certificate from a registered medical practitioner (Original)
- Blood Group Certificate (Original)
- Aadhaar card copy of the student
- Photographs: Recent colour photo with white background, of resolution 300-600 dpi
  Passport size 5 Nos. (35mm x 45mm) & Stamp size 5 Nos. (20mm x 25mm)

Class Commencement

The BSc and MSc programs commence on the date prescribed by the University, generally in August.

Career Opportunities

- Academicians
- Diagnostic labs
- Biotech companies dealing with Biomedical instruments consumables / products
- Drug manufacturing companies
- Application specialists in biotech / food industries
- Regulatory agencies
- Technical writers / science communicators in publishing houses
- As experts in molecular techniques
- In Government / Private healthcare centres
- Entrepreneurs

FACILITIES

Sports | Cafeteria | Library | Research Laboratories
Medicare | Hostel | Conveyance | Student Wellness
Centre | Activities Beyond Classrooms

Sports

The campus has a 24,000 sq ft Indoor Sports Complex, which houses a floodlit basketball court, shuttle badminton courts, a tennis court, a volleyball court and a throwball court. An air-conditioned gymnasium and multi-purpose playground with running track are also available in the campus. A full-time physical education instructor is available in the Institute to train the students in sports activities.

Cafeteria

A cafeteria that serves a wide range of vegetarian and non-vegetarian food is available on the campus.

Library

The institute has an extensive library with a large collection of text and reference books, subscriptions to national and international journals and a direct link with Helinet & Delnet Consortia, with access to online journals. Research support software services like Grammarly, Turnitin and SPSS; digital learning resources and discipline-specific e-resources are available for faculty members, research scholars and students. An e-library facility with high-speed internet connectivity is also available.

Medicare

Students can avail medical and dental treatment at the 1200-bed multi-speciality Justice K S Hegde Charitable Hospital and A B Shetty Dental College Hospital, located in the campus.

Hostel

The college provides safe, secure, clean and well-furnished hostels with hygienic food. The Hostel mess has an app 'Paaka Shaale' which provides the facility for the students to pre-book the vegetarian or non-vegetarian dishes of their choice apart from the regular menu. Recreational facilities include indoor & outdoor games and television. A resident warden is available to ensure that students are safe. Healthcare requirements like doctor on-call facility to handle medical emergencies are available. The hostel has zero tolerance towards ragging, use of tobacco and drug abuse. Security personnel are available round-the-clock in all the hostels.

Research Laboratories

The institute boasts of state-of-the-art laboratories for cutting-edge research in the field of biomedicine, food safety and environmental health. Dedicated labs with modern amenities, equipped with advanced and high-end instruments are available for student practicals and projects that enable basic, applied and translational research.

Student Wellness Centre

The Wellness Centre aims to create a stress-free campus by promoting a healthy lifestyle and positive mental health amongst students. It provides mentoring and counselling services for students in a confidential and supportive environment through professionals.

Students experiencing stress related to academic, personal, social or other issues can access counseling assistance by contacting the counselor through helpline provided by the university.

Conveyance

Free transport facilities are provided to students through a fleet of buses plying regularly from various locations in the city to the college and back. The campus also provides bicycles to commute within the campus. This is an initiative taken to maintain a healthy lifestyle and a green campus.

Activities Beyond Classrooms

Besides academics, activities that promote the holistic development of students are encouraged at NUCSER. The institute has a proactive student union which creates opportunities and inspires young minds to build leadership qualities.

Several student-centric events are planned, organized and executed by the student union which include collage, cooking, painting, fashion shows and the annual cultural extravaganza "GOONJ." Festivals are enthusiastically celebrated by all communities, races & creeds and such colourful occasions bear testimony to the harmony on campus.

At NUCSER, attention is also given to developing skilled professionals who are socially responsible and strongly committed to maintaining a green and clean environment. A vibrant NSS and GreenWing actively participate in campus cleaning, creating awareness about health and hygiene in the community, and planting, geotagging, and barcoding trees in line with the university motto 'Nurture Nature.'

JUSTICE K S HEGDE CHARITABLE HOSPITAL

The 1200-bed NABH-accredited multi-specialty Justice K S Hegde Charitable Hospital serves as the teaching hospital for K S Hegde Medical Academy and provides the requisite training to students of health science programs. Renowned for its commitment to providing high-quality treatment at an affordable cost, this leading hospital plays a vital role in Mangaluru's healthcare landscape.

Equipped with all modern diagnostic and therapeutic facilities, the hospital conducts critical surgeries like valve replacement, bypass surgery, neonatal surgery, cancer surgery, paediatric surgery, cardiac surgery, laparoscopic surgery, arthroscopic surgery, joint replacement, complex spine and brain surgery, micro-laryngeal surgery and endoscopic sinus surgery.

Broad Specialties

- General Medicine
- General Surgery
- Anaesthesiology
- Respiratory Medicine
- Orthopaedics
- Obstetrics & Gynaecology
- Paediatrics
- Psychiatry
- Dermatology, Venereology & Leprosy
- Ophthalmology
- Radiodiagnosis
- Otorhinolaryngology

Clinical Facilities

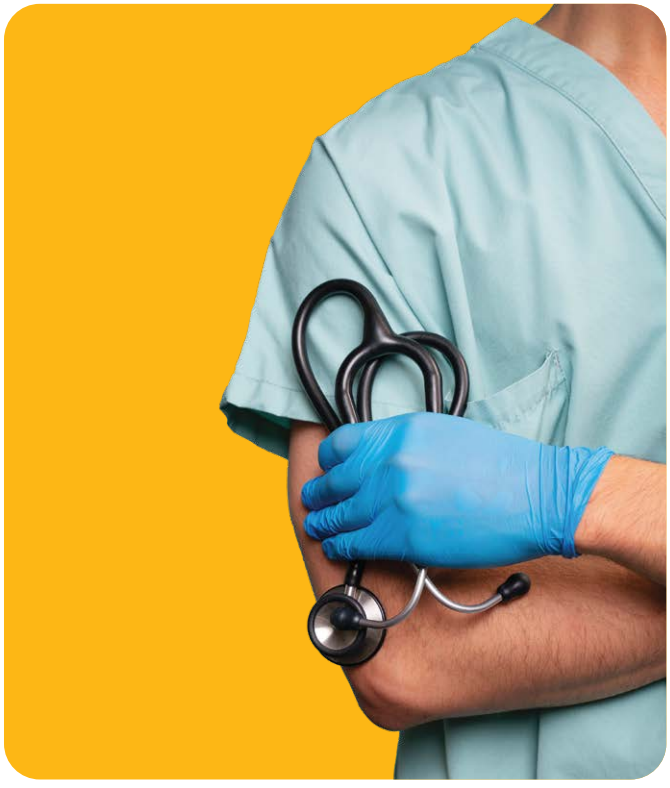
- Emergency Medicine
- Physical Medicine & Rehabilitation
- Audiology
- Speech Therapy
- Physiotherapy
- Pharmacy Practice
- Nutrition & Dietetics

Super Specialties

- Cardiology
- Cardiothoracic Surgery
- Neurology
- Neurosurgery
- Nephrology
- Urology
- Paediatric Surgery
- Oncology & Onco Surgery
- Radiotherapy
- Endocrinology
- Medical & Surgical Gastroenterology
- Plastic Surgery
- Breast & Endocrine Surgery
- Nuclear Medicine & Theranostics
- Fertility & Reproductive Medicine
- Craniofacial Surgery

Nitte Centre for Integrative Medicine & Research (CIMR)

This Centre combines Yoga, Meditation, Ayurveda and Naturopathy (AYUSH) with science, to provide clinical services and research on lifestyle and gut-related disorders. The Centre provides yoga, ayurveda and naturopathy based integrative therapy for a variety of lifestyle diseases. In addition, lectures / workshops on diet and nutrition are held to educate individuals on health and fitness. Prevention, cure and rehabilitation through integrative medicine is the Nitte CIMR's mission.



Other Facilities

- Regular and air-conditioned rooms and suites
- Special clinic - 8 am to 5 pm
- Patient care and Counselling cell
- Sleep study and day-care facilities
- Uninterrupted Oxygen supply with dedicated PSA O_2 plant
- 18 modern operation theatres with advanced life-saving facilities
- Fully equipped 120-bed closed ICU, ICCU, NICU, PICU, SICU and Burns Unit
- 24-hour Emergency and Trauma Centre with attached OT, diagnostic and life support systems like ultrasound, x-ray, ventilators and monitors
- 24-hour clinical laboratory (NABL accredited), blood bank and pharmacy services
- Advanced Cardiac Cath lab and Dialysis unit
- Organ transplant services
- 1.5 Tesla MRI unit, Spiral C-Arm with IITV and fluoroscopy, 128 & 16 Slice CT, Slice 4D Ultrasound with colour doppler, Computed & Digital Radiography and Mammography with 3D Tomosynthesis
- Centre for Cancer Treatment and Research
- IVF Centre for Assisted Reproductive Therapy
- Centre for Craniofacial Surgery
- Advanced Neurology Lab
- Comprehensive Tissue Bank
- PET/CT

Super Specialty Departments

Cardiology

- Non-invasive procedures: 4D Transthoracic and 4D Transesophageal Echocardiography, TMT, Holter, ECG and Ambulatory BP
- Diagnostic & therapeutic interventional procedures: Coronary & peripheral angiograms, Coronary & peripheral angioplasties, Carotid angioplasties, Pericardiocentesis, Embolization procedures and Renal interventions
- Congenital heart disease interventions: Device implantation of ASD, VSD, PDA & others
- Electrophysiology studies, Pacemaker implantation, Cardiac resynchronization therapy & Implantable Cardioverter Defibrillator (ICD)
- Valvuloplasty and TAVR
- Stent graft placement for aortic aneurysms and aortic dissections

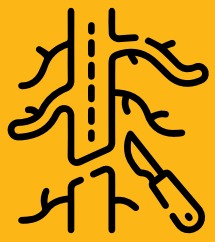
Cardiovascular Thoracic Surgery

Cardiac Surgeries

- Coronary artery bypass graft
- Aortic valve replacement
- Mitral valve replacement / repair
- Tricuspid valve repair
- Double valve replacement
- Repair of ASD and VSD
- Repair of Cyanotic congenital heart disease
- Repair of aortic aneurysm
- Surgery heart failures

Thoracic Surgeries

- Lung resections
- Decortication
- Resection of Mediastinal tumours
- Repair of eventration diaphragm
- Excision of chest wall tumours



Vascular Surgeries

- Aortobifemoral grafting
- Femoral popliteal grafting
- Repair of aneurysm
- Endovascular Aneurysm Repair (EVAR)

Nephro Urology

- Modern haemodialysis unit and a renal ICU
- Renal transplants
- Laser Prostatectomy
- Laser Lithotripsy
- URS (Ureterorenoscopy) and endoscopic surgery to remove ureteral stones
- Transurethral surgeries to remove prostate and bladder tumours and AV fistula surgery for dialysis patients

Paediatric Surgery

- Neonatal surgeries
- Paediatric urology
- Specialized laparoscopic setup for paediatric abdominal and thoracic surgery
- State-of-the-art Neonatal Intensive Care Unit (NICU) and Paediatric Intensive Care Unit (PICU)

Nuclear Medicine

- PET/CT
- Dual head gamma camera
- Radionuclide therapy
- Nuclear medicine stress test

Neurology

- Epilepsy Clinic
- Movement Disorder Clinic
- EEG machine and electrophysiology equipment
- Multiple Sclerosis Research Unit
- Advanced Neurological Research Centre

Neurosurgery

- Neuro OT with C-arm, microscope, neuro endoscope & state-of-the-art equipment for minimally invasive and stereotactic surgeries supported by a full-fledged Neuro-ICU (NRICU)
- Surgeries to treat brain tumours, aneurysms, complex spine surgeries, endoscopic brain and spinal disorder

Oncology

- Integrated Cancer Centre catering to all needs of cancer patients
- Comprehensive cancer care including advanced Radiotherapy treatment, Medical Oncology
- Surgical Oncology and Palliative care

Radiation Oncology

- Two-Dimensional Radiotherapy (2DRT)
- Three-Dimensional Radiotherapy (3DCRT)
- Intensity Modulated Radiotherapy (IMRT)
- Image Guided Radiotherapy (IGRT)
- Rapid ARC Radiotherapy
- PET/CT

Medical Oncology

- Chemotherapy (OP and IP basis)
- Bone marrow aspiration and biopsy
- Bone marrow transplant
- Immunotherapy (OP and IP basis)
- Intrathecal chemotherapy

Surgical Oncology

- Head & Neck Onco surgery
- Musculoskeletal surgery
- Breast and Endocrine Surgery
- Thoracoscopic (VATS) Surgery: Oesophageal cancer, Lung and Mediastinal tumours
- Laparoscopic Surgery: Stomach, Pancreas, Colorectal, Gynaecological & Urological cancers
- Intersphincteric resection (ISR): Sphincter preserving surgery for low rectal cancer

Endocrinology

- Diabetes care program for retinopathy, nephropathy, neuropathy, ischemic heart disease and management of gestational diabetes
- Paediatric diabetes clinic
- Treatment for obesity and lipid disorders, metabolic bone disease, disorders of the ovaries and testes, endocrine disorders of infertility, hirsutism, parathyroid and adrenal disorders

Plastic Surgery

- Repair and reconstructive surgeries
- Microvascular surgery
- Cosmetic surgery
- Burn management
- Diabetic foot management
- Congenital deformities correction

Craniofacial Surgery

- Treatment of cleft and craniofacial anomalies and rhinoplasty
- Cleft and craniofacial care through treatment related to paediatrics, pedodontics, orthodontics and speech therapy

Medical Gastroenterology & Hepatology

- Endoscopic Retrograde Cholangiopancreatography (ERCP): Detection & treatment of pancreatic & biliary disease
- Endoscopic Ultrasonography (EUS): Detection & Surveillance of pancreatic & biliary cancer
- Upper GI Endoscopy: Esophageal and Gastric cancer detection & surveillance
- Colonoscopy: Colon cancer detection & surveillance
- Therapeutic Endoscopy: Endoscopic removal of polyps in stomach, colon & rectum
- Cystogastrostomy for pancreatic pseudocyst
- Stenting for Advanced Oesophageal, Gastroduodenal, Biliary, Pancreatic and Colonic cancers
- Argon plasma coagulation for haemostasis and fulguration of unresectable tumours
- Oesophageal & anorectal manometry
- 24-hour pH impedance testing

Surgical Gastroenterology & Hepato-Pancreato-Biliary Surgery

- Liver resections for tumours/cancers
- Liver transplantation
- Pancreatic surgeries for cancer/tumours and chronic pancreatitis
- Laparoscopic surgeries for cancer and non-cancerous diseases of oesophagus, stomach, small & large intestines and rectum
- Advanced laparoscopic surgeries for Gastroesophageal Reflux Disease (GERD), hiatal hernia and achalasia cardia
- Laparoscopic surgeries for gallstones, spleen and pancreas
- Laparoscopic weight loss/bariatric surgeries

Specialty Departments

General Medicine

- Modern diagnostic equipment and facilities like ICU and ICCU with monitors, ventilators & defibrillators
- Speciality clinics for diabetes, hypertension and geriatrics

General Surgery

- Well-equipped modern operating theatres
- Latest instruments and equipment such as laparoscopes and endoscopes
- Routine procedures as well as advanced laparoscopic, thoracoscopic, gastrointestinal, hepatobiliary and pancreatic surgeries

Orthopaedics

- Tissue Bank to support bone grafts, tendon grafts, amnion and skin grafts
- Trauma care
- Complete arthroscopy instruments for keyhole surgeries
- Robotic hip and knee replacement surgeries

Ophthalmology

- Equipped with Slit Lamps, A-scan and Humphrey Field Analyser
- 24-hour eye bank
- Speciality clinics for cataract surgery and retinal defects
- Corneal transplant

Otorhinolaryngology

- Treatment of tumours and cancers of the head and neck area and skull base surgery
- Micro-ear surgery, cochlear implant, micro-laryngeal surgery, endoscopic sinus surgery, video laryngoscopy, rigid and flexible bronchoscopy & esophagoscopy equipped with stroboscopy for diagnosing voice disorders & electronystagmography

Obstetrics & Gynaecology

- Fertility clinic - IVF clinic for Assisted Reproductive Therapy
- Cancer screening
- High-risk pregnancy management
- Menopause clinic

Respiratory Medicine

- Anti-tubercular treatment (DOTS)
- Treatment of naso bronchial allergy and asthma
- Pulmonary function test and arterial blood gas analysis
- Bronchoscopy
- Sleep lab
- Endoscopic Bronchial Ultrasonography

Paediatrics

- Fully-equipped Neonatal Intensive Care Unit (NICU)
- Paediatric Intensive Care Unit (PICU)
- Epilepsy clinic, high-risk new-born clinic, development clinic, asthma clinic, well-baby & immunization clinic
- Special nephrology and nephro-urology clinic
- Genetic counselling, Genetics lab

Dermatology

- Diode Laser for permanent hair reduction
- CO2 Laser for acne scar treatment, skin resurfacing and keloid treatment
- Spectra XT Laser for melasma treatment, tattoo, birthmark and mole removal
- Phototherapy unit
- Dermato-surgical procedures: Biopsies, surgeries for vitiligo & cryosurgery

Radiodiagnosis

- 1.5 Tesla MRI unit
- 128 Slice MDCT scan with CT angiogram & 3D reconstruction facilities
- PET/CT
- 16 Slice MDCT scan with CT angiogram & 3D reconstruction facilities
- C-arm with image intensifier
- 4D Ultrasound with colour doppler unit
- Mammography unit with 3D tomosynthesis
- 6 X-ray machines
- 800 mA unit with IITV and fluoroscopy
- Digital Radiography

Programs at Nitte

COLLEGES	PROGRAMS OFFERED
NMAM Institute of Technology (Nitte)	BTech: Artificial Intelligence & Data Science | Artificial Intelligence & Machine Learning | Biotechnology | Civil | Computer & Communication | Computer Science | Computer Science (Cyber Security) | Electrical & Electronics | Electronics & Communication | Electronics & Communication (Advanced Communication Technology) | Electronics (VLSI Design & Technology) | Information Science | Mechanical | Robotics & Artificial Intelligence | MTech | MCA | PhD
Nitte Meenakshi Institute of Technology (Bengaluru)	BTech: Aeronautical | Artificial Intelligence & Data Science | Artificial Intelligence & Machine Learning | Civil | Computer Science | Computer Science & Business Systems | Electrical & Electronics | Electronics & Communication | Electronics (VLSI Design & Technology) | Information Science | Mechanical | Robotics & Artificial Intelligence | MTech | MCA | MBA | PhD BSc (Honors): Civil Aviation Pilot Training | Civil Aviation Flight Dispatcher
K S Hegde Medical Academy (Mangaluru)	MBBS | MD.MS | MCh (Urology) | PhD Fellowship: Interventional Pulmonology | Neuroimmunology | Reproductive Medicine
A B Shetty Memorial Institute of Dental Sciences (Mangaluru)	BDS | MDS | Fellowship in Oral Implantology | PhD
Nitte Institute of Allied Health Sciences (Mangaluru)	BSc & MSc: Anesthesia & OT Technology | Medical Imaging Technology | Medical Lab Technology | Respiratory Therapy BSc: Renal Dialysis Technology | Radiation Therapy Technology MSc: Clinical Embryology MPH (Public Health) | MHA (Hospital Administration) PG Diploma: Computed Tomography Technology | MRI Technology | PhD
NGSM Institute of Pharmaceutical Sciences (Mangaluru)	DPharm | BPharm | PharmD | PharmD (PB) | MPharm | PhD
Nitte College of Pharmaceutical Sciences (Bengaluru)	BPharm | MPharm

Nitte Usha Institute of Nursing Sciences (Mangaluru)	BSc Nursing | PB BSc Nursing | MSc Nursing | PhD
Nitte Institute of Physiotherapy (Mangaluru)	BPT | MPT | PhD
Nitte Institute of Speech & Hearing (Mangaluru)	B.ASLP (Audiology & Speech-Language Pathology) MSc: Speech-Language Pathology | Audiology | PhD
Nitte University Centre for Science Education & Research (Mangaluru)	BSc (Honors) Biomedical Science MSc: Biomedical Science | Bioinformatics | Cancer Biology | Food Science & Technology | Microbiology | Biotechnology | Marine Biotechnology One Year MSc | PhD
Nitte Institute of Architecture (Mangaluru)	BArch
Nitte School of Architecture, Planning & Design (Bengaluru)	BArch | BPlan | BDes | MPlan
Nitte Institute of Communication (Mangaluru)	BA (Honors) Media & Communication | PhD
Nitte Institute of Hospitality Services (Mangaluru)	BSc (Honors) Hotel Management BSc (Honors) Culinary Arts & Management BSc (Honors) Airlines, Tourism & Hospitality
Justice K S Hegde Institute of Management (Nitte)	MBA | PhD
Nitte School of Management (Bengaluru)	PG Diploma in Management

Nitte School of Fashion Technology & Interior Design (Bengaluru)	Diploma: Fashion Design | Interior Design BDes: Fashion Design | Interior Design MDes: Fashion Design | Interior Design
Dr NSAM First Grade College (Nitte)	BBA (Business Analytics | Logistic & Supply Chain Mgt | Financial Mgt | Marketing Mgt | HR Mgt) BCA (Data Analytics | IT | AI & Machine Learning) BCom (Financial Mgt | Banking, Financial Services & Insurance) BCom Professional (Financial Mgt | Banking, Financial Services & Insurance) BSc (Data Analytics | IT | AI & Machine Learning)
Nitte Institute of Professional Education (Mangaluru)	BCA (Artificial Intelligence & Machine Learning | Cyber Security & Digital Forensics | Cloud Technology & DevOps) BBA (Business Analytics | International Business | Banking, Financial Services & Insurance)
Dr NSAM First Grade College (Bengaluru)	BCA | BBA (General | Aviation Management) BCom (General | Professional | Business Data Analytics | Logistics & Supply Chain Management)
Nitte Rukmini Adyanthaya Memorial Polytechnic (Nitte)	Diploma in Engineering: Civil | Computer Science | Electrical & Electronics | Electronics & Communication | Mechanical | Apparel Design & Fabrication Technology

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TRANSFORMING HEALTH CARE TO **NEXT LEVEL**

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