



# ENGINEERING MANAGEMENT

Engineering, Management: Nitte - 574 110, Karkala Taluk, Karnataka, India





## **Justice K S Hegde**

Founder

## **ABOUT THE MANAGEMENT**

Nitte Education Trust was founded in 1979 by Justice K S Hegde, 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. After his demise, his son, Mr. N V Hegde, took up the task of transforming his dreams to reality.

# NITTE's STRENGTHS



RANKED  
**83<sup>rd</sup>**  
BY NIRF



**130**  
COURSES



**3**  
CAMPUSES



**4,500**  
FACULTY



**36**  
INSTITUTIONS



**20,000**  
STUDENTS

# NMAM INSTITUTE OF TECHNOLOGY

## ABOUT THE INSTITUTION

NMAM Institute of Technology (NMAMIT) was established in 1986. It is recognised by the All India Council for Technical Education, New Delhi; accredited with "A" grade by NAAC and is certified to ISO 9001-2015 standards for quality education by NVTQC. The programs are accredited by the National Board of Accreditation (NBA), New Delhi. NMAMIT is recognized as a lead institution under TEQIP I and II - World Bank Project.

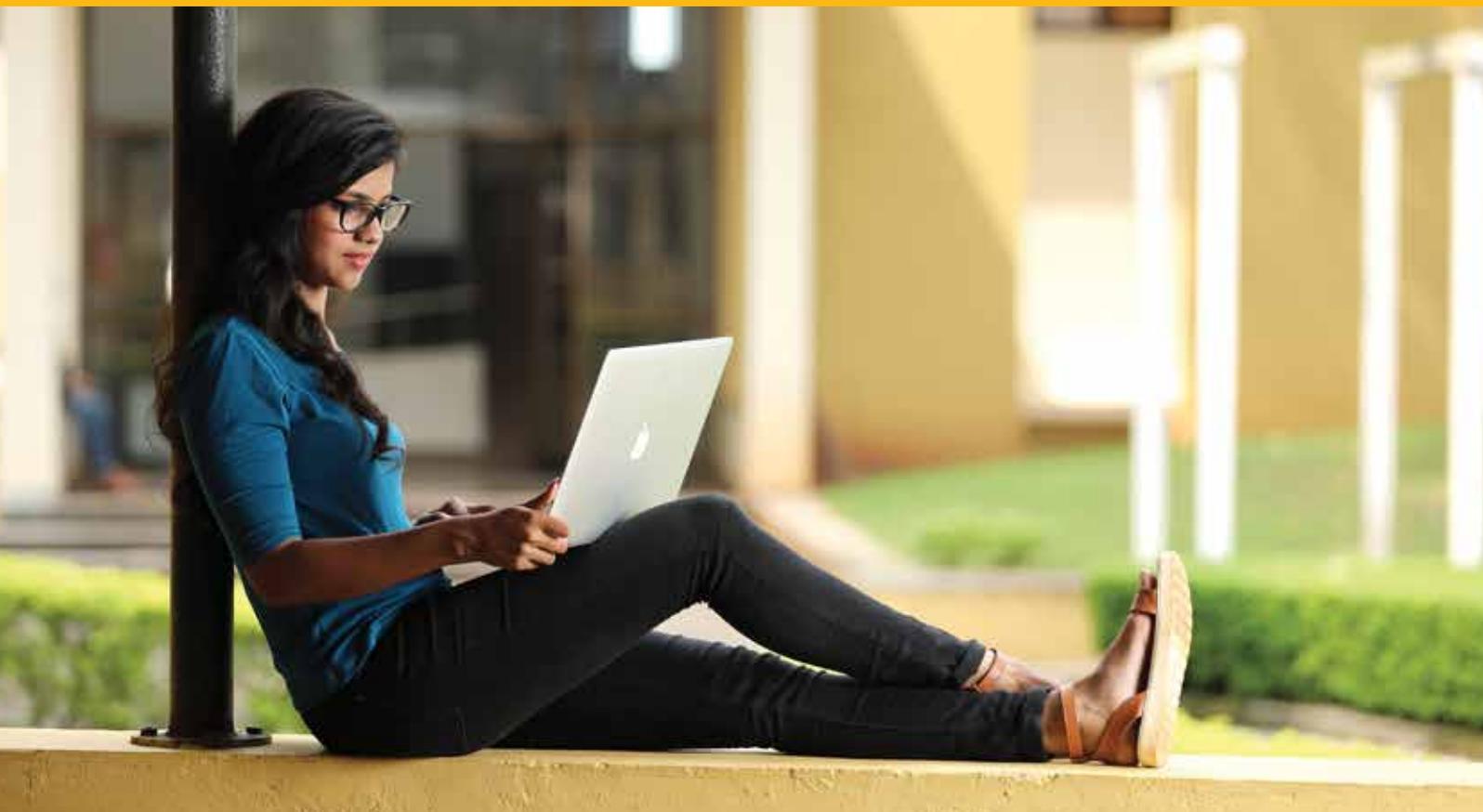
The annual intake of students is 1080 for UG and 518 for PG, with over 5000 students studying in the campus.

## FACULTY

**Principal: Prof. (Dr.) Niranjana N Chiplunkar, M.Tech., Ph.D**

Prof. Niranjana N Chiplunkar holds a doctorate in Computer Science & Engineering from the University of Mysuru and has over 28 years of teaching experience. He was bestowed with the "Excellent Achievement" award by the Centre for International Corporation on Computerization, Govt. of Japan (2002).

The complete list of teaching faculty is available at [www.nmamit.nitte.edu.in](http://www.nmamit.nitte.edu.in).





## RESEARCH AND INNOVATION CENTRE

To promote research and innovation, NMAMIT has established a Research and Innovation Centre (RIC) with 8,000 sq. ft. of laboratory space. It houses the following research modules:

### **Centre for tool based micromachining Research**

The centre works in the areas of micro systems applications in biomedical electronics, optics, micro-mechanics, micro-fluidics, dies, moulds, etc.

### **Centre for Condition Monitoring Research**

The centre has been established to carry out research in the areas of tool condition monitoring, vibration based condition monitoring, artificial neural network based modelling and use of wavelet transform for signal processing.

### **Centre for Advanced Machining Research**

Research is carried out in the area of high speed machining studies, tool wear measurement and evaluation, vibration data acquisitions and surface roughness evaluation.

### **Centre for Research on Vibration Isolation System**

The centre has facilities for research in the areas of both active and passive vibration isolation systems. Passive vibration isolation refers to vibration isolation by passive techniques such as rubber pads or mechanical springs. Active vibration isolation deals with vibration isolation by employing electric power, sensors, actuators and control systems.

### **Centre for System Design, Fabrication and Testing**

The centre works in the areas of design, fabrication and testing of piezoelectric based micro actuators, thermoelectric based cooling systems, micro pumps, micro air vehicles, mini piezo-hydraulic drive systems, linear piezo-drives (Piezo stepping and inchworm mechanism) with sub-micrometer positioning accuracy and macro displacement range.

### **Centre for I.C Engine Research**

Research related to performance enhancement of and reduction of emissions from internal combustion engines consuming different alternative fuels, is carried out here.

### **Centre for High Performance Computing**

The centre focuses on multi-core and many-core architecture based research on CPU and also on GPU based parallel application development and optimizations. This centre also focuses on use of machine learning on big data and security analysis using parallel architectures, optimizing neural networks on Computer Unified Device Architecture (CUDA) based GPUs.

### **Biofuel Information and Demonstration Centre**

This centre is one among the 32 information and demonstration centres Instituted by Karnataka State Biofuel Development Board (KSBDB) in Karnataka. This centre is responsible for production of biodiesel from various non-edible oil seeds and used cooking oil; creating awareness, disseminating information about biofuels amongst the scientific community, students, farmers and public and providing technical know-how about biodiesel production.

### **Centre for Innovation in Biofuel Production**

The centre has facilities to carry out research in biofuel production. The centre was established in the year 2013 with a funding from Vision Group on Science and Technology, GoK.

### **NITI Aayog's Incubation Centre**

It will have co-working space and tinkering lab and will allow young incubators by providing them seed funding, external mentoring facility and logistics to start their ventures.

## ENTREPRENEURSHIP DEVELOPMENT CELL (EDC)

The Department of Science and Technology (DST), Govt. of India established the Entrepreneurship Development Cell (EDC) at NMAMIT in 2004 to conduct training programs to promote development of business ventures/small scale industries/micro enterprises and promote employment opportunities in the region as well as to create entrepreneurial culture in institutions and colleges in and around Nitte. Students are encouraged to start their own ventures and all necessary help and guidance is given.

A Vocational Training Centre has been established at NMAMIT in association with the Directorate of Industries and Commerce, Bengaluru with the objective of enhancing the employability of uneducated youth by providing required training.

Karnataka Biotechnology & Information Technology Services (KBITS), an autonomous organisation established under the Department of Information Technology & Biotechnology, Govt. of Karnataka, has selected NMAMIT as one of the nine engineering colleges for 'Karnataka New Age Incubation Network'.

## MoU

The college has a MoU with Penn State University, Harrisburg, USA and Ritsumeikan University, Japan for faculty and student exchange programs, with respect to research and projects.

## PLACEMENT, COUNSELLING AND STUDENT WELFARE

NMAMIT has been proactive in placing students. The Institute has a well-organized placement team, which is vibrant in its activities and sees a NMAMITian as cheerful, articulate, healthy team player who is technically competent, socially and environmentally conscious, ethically upright, eminently employable and universal citizen. The Institute has a qualified and experienced mental health professional heading the department, a full time placement executive, departmental faculty coordinators, student volunteers and trained &

committed departmental staff, dedicated to work for the overall well being of the students.

Orientation programs for fresh entrants, training programs in leadership, public speaking, effective communication and mock interviews are conducted regularly. Slow learners are identified and additional input is provided by teachers.



## B.E PROGRAMS

- **Biotechnology Engineering**

Intake: 60 | Duration: 4 Years

Biotechnology is an emerging discipline and is a combination of education in engineering science and biology. It involves research and development in the areas of agriculture, medicine and bio-research. Biotechnology engineering provides foundation in engineering, chemistry, genetics, bio-chemistry and microbiology. It has applications in the field of animal husbandry, agriculture, energy production & conservation, pollution control and research & development in the field of medicines, vaccines, fertilizers and insecticides.

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- **Civil Engineering**

Intake: 120 | Duration: 4 Years

Civil engineering is the art, science and technology which deals with the planning, analysis, design and execution of infrastructural facilities, enhancing the economy of a nation and catering to the needs of human beings. Civil engineering is also applied in the fields of public health engineering, transportation systems, power generation, irrigation, construction technology, smart city, environment and geo-informatics.

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- **Computer Science & Engineering**

Intake: 180 | Duration: 4 Years

Computer Science & Engineering integrates several fields of electrical engineering and computer science, required to develop computer hardware and software. Computer engineers usually have training in software design and hardware-software integration, instead of only software engineering or electronic engineering. This field of engineering not only focuses on how computer systems work but also how they integrate into the larger picture. Computer engineers focus on innovation, making computing system safer, faster and more powerful.



### • **Electronics & Communication Engineering**

Intake: 180 | Duration: 4 Years

Electronics & Communication Engineering deals with electronic devices, circuits, integrated circuits (IC) and communication equipment like transmitter and receiver. It also deals with basic electronics, analog and digital transmission and reception of data, voice and video, microprocessors, satellite communication, microwave engineering, antennae and wave propagation. It aims to deepen the knowledge and skills of the students on the basic concepts and theories involving analysis, systems implementation, operation, production and maintenance of various applications.

### • **Electrical & Electronics Engineering**

Intake: 60 | Duration: 4 Years

E&E Engineering deals with the study, analysis and application of electricity, electronics and electromagnetism. Applications have now spread widely into power systems, power electronics, advanced machines, industrial drives, automation, control and microelectronics. Enormous work in energy harvesting has provided a new dimension to power generation using renewable energy sources like solar, wind and fuel cells. Innovation in automobile sector is heading towards electric vehicles to address the issue of global warming.

### • **Information Science Engineering**

Intake: 120 | Duration: 4 Years

Information Science Engineering is an interdisciplinary field primarily focused on collection, storage, retrieval and analysis of information centered towards cognitive science, communication and management. They codify technology and manage it.

### • **Mechanical Engineering**

Intake: 180 | Duration: 4 Years

Mechanical engineering deals with the design, construction and use of machines. It applies the principles of engineering, physics and materials science for the design, analysis, manufacturing and maintenance of mechanical systems. It is the branch of engineering that involves design, production and operation of machinery.

### • **M.Tech**

Intake: 218 | Duration: 2 Years

- Construction Technology (18)
- VLSI Design & Embedded Systems (18)

- Structural Engineering (24)
- Computer Science (25)
- Energy Systems (18)
- Computer Networking (18)
- Machine Design (18)
- Software Engineering (18)
- Digital Electronics & Communication (25)
- Industrial Biotechnology (18)
- Power Electronics (18)

### • **Master of Computer Applications (MCA)**

Intake: 120 | Duration: 3 Years

BCA and BSc (IT) graduates can apply for Lateral entry admission.

### • **Master of Business Administration (MBA)**

Intake: 180 | Duration: 2 years

#### **Specialisations:**

- Marketing (Consumer Marketing, Business Marketing)
- Finance (Corporate Finance, Investment Finance)
- Human Resource Management (Leadership Talent Management)
- Banking and IT

### • **Ph.D PROGRAMS**

Biotechnology | Civil | Computer Science | Mechanical  
Electronics & Communication | Electrical & Electronics  
Physics | Chemistry | Mathematics | Business Administration.

## **ADMISSION**

### **Eligibility for B.E**

A pass in the 12th standard or equivalent examination with not less than 45% marks as an aggregate in the optional subjects of Physics, Mathematics and Chemistry/Biotechnology/Biology/Computers/Electronics, with English being one of the languages of study.

The candidate should have completed 17 years of age as on 31st December of the year of admission.

**The college admits candidates under the following categories:**

1. NRI/Foreign National/Persons of Indian Origin/Children of Indian workers in the Gulf countries.
2. Management category.
3. General category.

For Sl. Nos. 1 & 2, admission is direct and is based on marks secured in the qualifying examination.

For Sl. No. 3, admission will be through Karnataka CET.

**The student can submit the online application available on [www.applications.nitte.edu.in](http://www.applications.nitte.edu.in) or download the same from our website and forward it along with the following documents:**

- Attested copies of the 10th & 12th standard marks cards.
- Demand Draft for ₹500/- favouring 'NMAMIT' payable at Mangaluru towards registration fee.
- Proof of NRI status (if applicable). (Passport copy, Employment Certificate and Residence Permit of the parent).

**Documents required for Admission**

- 12th standard or equivalent marks card/pass certificate - Original + 3 attested copies.
- 10th standard pass certificate for proof of date of birth - Original + 3 attested copies.
- Transfer certificate from the institution last attended - Original + 3 attested copies.
- Conduct certificate from the institution last attended - Original only.
- Migration certificate from the Board of the institution last studied.
- Physical fitness certificate from a registered medical practitioner.
- Blood group certificate.
- Photographs: 5 passport-size and 5 stamp-size.
- Aadhar card copy of the student.

**Additional documents for foreign nationals**

- No Objection Certificate from the Government of India.
- AIDS-free certificate from a competent medical authority.
- Residential Permit issued by the Foreigner's Registration Office and the District Superintendent of Police.
- Valid Student VISA for the period of study.

**Commencement of classes**

The classes commence during August each year.

**Eligibility for M.Tech**

Bachelors degree or equivalent in the relevant field, with atleast 50% marks (45% in case of candidate belonging to reserved category) in the qualifying examination. PG CET rank or GATE qualification is mandatory.

**Eligibility for MCA**

Recognised Bachelors degree (minimum of 3 years duration), with Mathematics at 10+2 or degree level. Candidates should have obtained at least 50% marks (45% in case of candidates belonging to reserved category) in the qualifying examination. KMAT or PG CET qualification is mandatory.



# JUSTICE K S HEGDE INSTITUTE OF MANAGEMENT

## ABOUT THE INSTITUTION

The Department of Management Studies of NMAMIT, Justice K S Hegde Institute of Management offers a two-year full time MBA program, recognised by the All India Council of Technical Education (AICTE). It is accredited by National Board of Accreditation (NBA) and National Assessment and Accreditation Council (NAAC).

The Institute was accredited by ACBSP in 2015 and is among the very few institutes in India to have this accreditation. JKSHIM publishes biannually a research journal - Nitte Management Journal which is indexed in major international databases. JKSHIM is also recognised to be among the premier B Schools in the state based on performance in academics, consultancy and research.

## FACULTY

Prof. K Sankaran is a BTech Honours from IIT, Kharagpur, PGDM from IIM Bangalore and PhD from Kent State University, Ohio, USA. His teaching and research interests span strategic management, business ethics, social entrepreneurship, knowledge management and pedagogy in management education.

The complete list of teaching faculty is available at [www.jkshim.nitte.edu.in](http://www.jkshim.nitte.edu.in).

### Specializations:

- Marketing (Consumer Marketing, Business Marketing)
- Finance (Corporate Finance, Investment Finance)
- Human Resource Management (Leadership Talent Management)
- Banking and IT

## RESEARCH COLLABORATIONS

The Institute has MoU's with the University of Pennsylvania, USA; Makerere University Business School, Uganda; Rotterdam School of Management; Erasmus University, The Netherlands; Ritsumeikan University, Japan and Charles University, Prague for faculty and student exchange.

A research study titled "Factors Affecting Sanitation Behaviour in Developing Countries" in collaboration with Charles University, Prague is on.

The Human Development Report which was prepared in collaboration with Udupi Zilla Panchayat, was selected as the best report in India, by the Govt. of India. This is part of the consultancy activities of the Institute.

## INDUSTRY COLLABORATIONS

The Institute has a collaboration with Kanara Small Industries Association (KSIA), Mangaluru, which helps with industrial projects.

Management Development Programs and Executive Development Programs to cater to the training and development needs of industry partners are held on the campus.

## ADMISSION

Eligibility: Graduates in any discipline with a minimum of 50% marks at degree level (including languages) are eligible. Students pursuing final year of their graduation can also apply.

The student can submit the online application available on [www.applications.nitte.edu.in](http://www.applications.nitte.edu.in) or download the same from the website [www.jkshim.nitte.edu.in](http://www.jkshim.nitte.edu.in) and forward it to The Director, Justice K S Hegde Institute of Management, Nitte along with all the documents mentioned therein. CAT/MAT/KMAT/XAT/ATMA scores are considered for admission. Shortlisted candidates (on the basis of their scores) will be called for Group Discussion and Personal Interview.

Scholarships will be provided by way of fee concession to meritorious candidates.





## FACILITIES

### Library

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The central library of the Institute has over 77,000 volumes and subscribes to over 287 general and technical journals (both foreign and Indian). The library offers digitized services with CD-ROM stations and also subscribes to a large number of e-journals through INDEST and DELNET. The library also offers online services under VTU consortium.

### Wi-fi

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All the departments and hostels are connected through 310 Mbps leased line internet connectivity.

### Conveyance

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The College has a fleet of 32 buses for students and staff from Karkala, Mangaluru, Udupi, Kundapur, Bantwal and Belthangady.

### Cafeteria

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Campus eateries cater to various tastes and needs. Both vegetarian and non-vegetarian food is available on campus.

### Sports

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The B C Alva Sports Complex includes a 14000 sq. ft indoor stadium which has three badminton courts, one basket ball court, facilities for table tennis and other indoor games like carrom and chess, a modern multi gymnasium, individual exercise stations for weight lifting and power lifting and separate fitness centre for athletes. The college has a standard athletic turf track of 400 meters, facility for all kinds of throws and a pavilion with a fitness centre. Other amenities include ground for football, hockey, cricket and three cement and clay cricket pitches for practicing. In addition to this are volleyball, throw ball, basketball, handball and net ball courts.

### Hostels

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The College has separate hostels for boys and girls. Each hostel has a vegetarian and non-vegetarian mess with South Indian and North Indian food.

### Healthcare

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All students are covered under the 'Medicare Scheme' which entitles them to free medical and dental treatment. An ambulance and a full time doctor are available in the campus clinic.

### Counselling and Student Welfare

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Orientation programs for fresh entrants, training programs in leadership, public speaking, effective communication and facing interviews are conducted regularly. Slow learners are identified and additional input is provided by teachers.





For further details, you may contact:

**The Deputy Director (Administration)**

Medical Sciences Complex, Deralakatte, Mangaluru - 575 018, Karnataka, India

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