

COVER
STORY



We nurture future leaders who are not only technically skilled but also visionary, ethical, and driven to make a positive impact on society and the world at large.

SHRI GURU GOBIND SINGHJI
**INSTITUTE OF ENGINEERING
AND TECHNOLOGY, NANDED**

Vanguards of Engineering Innovation in India

As the world explores the vibrant realm of academia and industry, one cannot overlook the integral role played by educational institutions in shaping the future of engineering and technology. Across India and beyond, the pursuit of knowledge and the application of cutting-edge research are transforming not just industries but entire societies.

At the forefront of this transformation, **Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded** stands tall as a technological hub dedicated to excellence in education, research, and technological advancement.

Established in 1981, Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded (SGGSIE&T, Nanded), Vishnupuri Nanded, has grown to be recognized as a promising leader in technical education, research, and technology transfer.

It started with two undergraduate programs in 1981 and now offers ten undergraduate and ten postgraduate programs. It also offers a Ph. D. program under its affiliating University, Swami Ramanand Teerth Marathwada University (SRTMU), Nanded, and under the Quality Improvement Program of the Ministry of HRD, Government of India, New Delhi. Pragmatic Management of the Institute has taken proactive steps to depute faculty to various IITs and NITs for higher studies.

The faculty not only acquired higher qualifications but also brought back along with them the culture of these premier organizations. SGGSIE&T, Nanded is rich in highly qualified faculty, with more than 80% of the regular faculty members being Ph.D. holders, 44 faculties listed in the AD Scientific index list-2024 and 35 faculties listed in the AD Scientific index-2023. Many faculty members bag national and university level best teacher awards and carrier awards in AY-2023-24.

At the Forefront of Technical Transformation

In less than 25 years of its inception, the institute has made a mark in technical education and quality research, which was endorsed by a third-party survey constituted by the Government of Maharashtra and headed by Dr. F. C. Kohli, Chairman, TCS. Through that survey conducted in 2004, SGGSIE&T, Nanded was identified as an Institute that can be raised to Centre of Excellence along with other well-established institutes like College of Engineering Pune, VJTI, Mumbai, and ICT, Mumbai. The National Institutional Ranking Framework (NIRF) is an initiative of Human Resource Development. This framework outlines a methodology to rank institutions nationwide, including IITs and NITs.

The institute has state-of-the-art equipment and machinery for teaching and research/consultancy services. Faculty have contributed to laboratory development through proposals to various funding agencies like AICTE, DST, BARC, NRB, etc., other than the funding obtained under three phases of TEQIP and from the Government of Maharashtra. Most of the laboratories are kept open for the students 24 × 7. Four

of the institute's departments have DST-FIST-sponsored laboratories. Faculty research abilities have led to the establishing a "Centre of Excellence" in Signal and Image Processing (S&IP) under TEQIP. The institute was ranked 89 out of India's top 100 engineering institutes in 2016. SGGSIE&T bagged 4th rank in the national level Atal Ranking of Institution on Innovations and Achievements (ARIIA)-2020 in the government and government-aided institute category.

Nurturing Excellence through Collaboration

The institute has a very progressive and pragmatic approach in providing its services to all its stakeholders. SGGSIE&T, Nanded believe in students' self-learning. The institute collaborates with several premier institutes (including foreign universities) and industries, and opportunities like internships, credit transfers, industry-relevant projects, etc., are available to the students. The students also took due advantage and performed par excellence.

It is exhibited by their placement either in terms of the numbers or their positions at various renowned

industries, acquiring seats for higher education and even selection in administrative & engineering services. Our students have exhibited their overall development through participation in socially relevant projects and activities. They have even grabbed opportunities to serve the local administration/government agencies through competitive bidding. The research culture of the institute has been proven through the publication in thousands of research contributions with good citation records in peer-reviewed prestigious national/international journals and reputed international conferences. Many faculties are reviewers for inter-national journals.

The faculty has also published several books. Patenting is becoming a promising feature of the institute because student projects are also being converted into patents. The establishment of an Innovation Laboratory and participation of many students in various Innovation projects is a key feature of the institute.

Empowering Tomorrow's Technological Innovators
SGGSIE&T, Nanded strives for its vision which is: **Education of Human Power for Technological Excellence.**



Our institute has a very progressive and pragmatic approach in providing its services to all its stakeholders.



The institute aims to achieve following objectives:

- Dissemination of knowledge by offering world-class education
- Right to information for all stake holders
- Promotion of sustainable industrialization to development of appropriate technologies
- Continuing education programs for reengineering of regional socio-economic system in the light of dynamic, global technological changes
- Contribution to national wealth through innovation

Advancing Research Frontiers

The Institute is recognized as a research center by SRTM University, Nanded for doctoral program, as well as by the Government of India and Q.I.P. Programme scholarships are available to the full-time research scholars, Center of Excellence in signal and image processing, Technical Education Quality Improvement Program of the Ministry of HRD, Government of India, Visvesvaraya Ph.D. Scheme of Department of Electronics and Information Technology, Govt. of India, Sponsored and Joint Research projects with various organizations such as BRNS and NRB, etc. Currently, the number of registered Ph.D. scholars is 172, and the number of Ph.D. awarded is 358+.



Its Research thrust areas are:

- **Chemical Engineering:** Separation technology, Energy and Environmental Engineering, Heat networking, Process intensification.
- **Civil Engineering:** Water Resources Systems, Environmental Engineering, GIS Application for Water Resource Management, Earth Sciences, Rehabilitation of Structures.
- **Computer Science and Engineering:** Pattern Classification & Image Processing, Wireless, Fuzzy & Neural Networks, Data Mining, Machine Vision.
- **Electrical Engineering:** Smart Grid, Power Quality Analysis, Digital Protection of Transmission lines.
- **Electronics & Telecommunication Engineering:** Digital signal and image processing, Pattern

recognition and computer vision, VLSI and Embedded systems.

- **Information Technology:** Digital Image processing, Data mining and Pattern Recognition, Wireless Sensor Networks and QoS
- **Instrumentation Engineering:** Digital Signal and Image Processing, Advance Process Control, Control Systems, Intelligent Control, Biomedical Instrumentation, Agricultural Instrumentation.
- **Mechanical Engineering:** Mechatronics, Renewable Energy and Applications, Product Lifecycle Management
- **Production Engineering:** Analysis of self-healing composites, sheet metal forming, micro manufacturing and non-traditional manufacturing processes, quality and reliability engineering, customization of CAD CAM software, and solar energy applications for agriculture.



SGGSIE&T, Nanded stands out among other institutions in the country due to our commitment to academic excellence, research innovation, and holistic development.



- **Textile Technology:** Spinning, Weaving, Non-woven, geo-textile, fiber spinning and productivity analysis.

Feathers in the Cap

As a part of an ambitious plan, the Government of India selected 30 best institutions from all over India through competitive proposals for establishing Centers of Excellence for collaborative and multidisciplinary research within specific thematic areas of regional or national importance. Indian Government supported the Centre of Excellence (CoE) with research funding of 50 million Indian rupees under the World Bank-assisted Technical Education Quality Improvement Program of India (TEQIP)-II. Based on competitive merit, the SGGSI&T, Nanded was selected for establishing CoE in Signal and Image Processing for carrying out focused research on specific areas such as Biomedical Signal and Image Processing, Biometrics, Diabetic Retinopathy, Video Surveillance, Video Processing, Speech Processing, etc.

More than 20 faculty members from various engineering and basic sciences departments of the institute are actively engaged with the CoE. Members of CoE have strong publications, numbering more than 1200 in peer-reviewed journals and conferences, and have a cumulative citation index of 15000+. Presently, more than 158 scholars are registered for the Doctoral program, and 400+ have been completed to date. The centre has established a state-of-the-art Signal and Image Processing Laboratory. Objectives of the CoE include:

- Creation of technologies that can be commercially exploited by industries.

- Developing high-caliber manpower and entrepreneurs in the field of signal and Image Processing.
- Tapping the top-class talent to carry out frontier research in signal and image processing and training of R&D manpower for industry.

Gateway to Knowledge

The SGGIS Library, established in 1981, is housed in a dedicated two-storied block spanning 1126.66 sq. meters, surrounded by lush greenery. It boasts a vast collection of 75,770 books and 3,959 bound volumes of national and international journals. This vibrant hub on campus offers a safe, comfortable, and friendly environment conducive to learning, knowledge advancement, and innovation. The library is open to all from 7:00AM to 12:00 midnight every day.

The library supports Scheduled Caste and Scheduled Tribe students through a Book Bank Scheme and subscribes to multiple national, regional, and local newspapers and magazines. A reading room that accommodates 250 students provides an ideal setting for study. Additionally, the library offers an earn-and-learn facility for economically disadvantaged students.

The mission of the Central Library is to facilitate the creation of new knowledge through the acquisition, organization, and dissemination of resources while offering value-added services. The silent features of the library are : Extensive collection for competitive exams like UPSC, MPSC, GATE, CAT, GRE, etc.; Marathi books by renowned authors; Books on sports, yoga, and more; Book Bank Scheme for SC/ST students;

Reference books available in the night library; Newspaper displays; Earn-and-learn facility; Information display and notifications; Access to online e-journals: IEEE, ASME, ASCE, Elsevier, ACM Digital Library, Springer Link, IEEE Wiley e-books, Springer e-books.

Comprehensive Student Support

SGGSIE&T Nanded offers comprehensive student support services designed to ensure the holistic development and success of its students. The institute provides counseling services to address academic, personal, and emotional challenges, fostering a supportive environment for students to thrive. Experienced counselors and mentors guide students through their academic journey, offering individualized support and guidance. Additionally, career guidance and placement assistance are integral parts of the institute's support system, helping students identify their career interests, develop essential skills, and navigate job opportunities effectively.

Mentorship programs connect students with faculty members and industry professionals who provide valuable insights, advice, and networking opportunities. These programs enhance students' academic understanding and prepare them for the demands of the professional world. Workshops, seminars, and guest lectures further enrich students' learning experiences, offering exposure to diverse perspectives and cutting-edge developments in their fields. By offering robust support services, SGGSI&T Nanded ensures that students receive the necessary resources and guidance to excel academically and professionally.



These initiatives contribute to a well-rounded education that empowers students to achieve their goals and make meaningful contributions to society upon graduation. As a evidence of the comprehensive student support our students bag AIR 1 four times in GATE Examination and our students bag 3 times rank 1 in hackathon national level competition. .

Setting Stages for Future Leaders

At SGGSI&T, student clubs like ChESA (Chemical Engineering Student Association), CESA (Civil Engineering Student Association), MESA (Mechanical Engineering Student Association), PESA (Production Engineering Student Association), EESA (Electrical Engineering Student Association), Anatrix (Astronomy club), SWAG (Software Development Club), Hackit (Ethical Hacking Club), Phoenix (ATV Car Club), and RNKG (Roboticsfor Next Generation) play integral roles in fostering academic excellence and holistic development among students. These clubs focus on enhancing engineering students' educational experience through various activities, including guest lectures, workshops, and discussions on current industry trends. Additionally, every year, the institute hosts various state-level cultural, technical, and sports events such as PRAGYAA, UTSAV, and ZENITH to nurture students' talents and overall development.

Robust Placement Initiatives

SGGSI&T Nanded boasts a strong placement record, with a high percentage of students securing job placements in reputable companies each year. The institute's dedicated Placement Cell plays a pivotal role in facilitating these opportunities by organizing placement drives, campus interviews, and job fairs that connect students with leading employers across various industries.

The Placement Cell also conducts mock interviews, resume building workshops, and soft skills training sessions to enhance students' employability and readiness for the job market. Through proactive industry engagement and alumni networks, SGGSI&T Nanded ensures that students have access to a wide range of career opportunities. The institute collaborates closely with corporate partners to align its curriculum with industry demands, thereby preparing students with relevant skills and knowledge sought after by employers. These efforts not only bolster the institute's placement record but also contribute to the professional success and career advancement of its graduates, establishing SGGSI&T Nanded as a preferred destination for engineering education and career development.

Pioneering Excellence in Engineering Education

SGGSI&T, Nanded stands out among other institutions in the country due to its commitment to academic excellence, research innovation, and holistic development. The institute's unique approach to education blends rigorous theoretical knowledge with practical, hands-on experience, preparing students to meet the dynamic challenges of the engineering world.

SGGSI&T, Nanded boasts state-of-the-art infrastructure, including advanced laboratories, modern classrooms, and a well-stocked library. These facilities provide students with the necessary resources to explore, experiment, and innovate. The institute continuously updates its infrastructure to keep pace with technological advancements, ensuring students are exposed to the latest tools and techniques in engineering.

USPs of SGGSI&T, Nanded

The institute places a strong emphasis on the overall development of students. Various programs and activities are designed to enhance technical skills, soft skills, leadership qualities, and ethical values. Students are encouraged to participate in extracurricular activities, sports, and community service, fostering a well-rounded personality.

The institute has a strong and supportive alumni network, with graduates holding prominent positions in leading organizations worldwide. Alumni frequently interact with current students, sharing their experiences and providing mentorship. Their success stories serve as inspiration and testimony to the quality of education and training provided by SGGSI&T, Nanded.

SGGSI&T, Nanded is deeply committed to contributing to the community and nation-building. Through various outreach programs and social initiatives, the institute instills a sense of responsibility and service in its students. This commitment ensures that graduates are competent engineers and responsible citizens who contribute positively to society.

Hostels (Home Away From Home)

Institute has total capacity of girls and boys hostels is 1300+ with well maintain and hygiene mess. The mess in both the boys' and girls' hostels is being operated on a cooperative basis by the students only. The hostel rooms has facility of laundry, water cooler, wifi, gijer etc.

Best Facilities at Campus

Well equipped gym, stationary and general stores, sport facility, ATM, dispensary, ambulance services and well maintain ground for the various sports.



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Shaping the Next Generation of Leaders and Innovators

SGGSIE&T, Nanded shapes the next generation of leaders and innovators by providing a conducive environment for learning, creativity, and personal growth. By equipping students with a strong foundation in engineering principles, practical skills, and ethical values, the institute prepares them to tackle complex problems and drive innovation in their respective fields.

The institute aims to achieve this objective with following strategies:

- Emphasizing both technical proficiency and soft skills, ensuring graduates are well-rounded individuals.
- Offering personalized mentorship from faculty and industry experts.
- Encouraging participation in research projects and innovation initiatives.
- Promoting global exposure through collaborations, conferences, and exchange programs.
- Instilling strong ethical values and a sense of social responsibility.

Through these efforts, SGGSI&T, Nanded nurtures future leaders who are not only technically skilled but also visionary, ethical, and driven to make a positive impact on society and the world at large.

