



Shri Guru Gobind Singhji Institute of Engineering and Technology

Vishnupuri, Nanded (Maharashtra State) PIN 431606 India

Govt. aided Autonomous Institute

<http://www.sggs.ac.in>

Vision statement: *Education of human power for technological excellence*

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4th Rank in ARIIA 2020 ranking at national level in the category of Govt/Govt aided Institutes

NAAC accreditation: B++ (2020-2025) with CGPA of 2.91

Ranked at 89th Position in 2016 NIRF, 4th amongst Govt.Aided category in ARIIA



Established in 1981, **Shri Guru Gobind Singhji Institute of Engineering and Technology (SGGSJET), Nanded** has grown to the level of being recognized as a promising leader in the area of technical education, research and technology transfer.

Started with just two undergraduate programs in 1981, it now offers 10 undergraduate and 10 postgraduate programs. It also offers Ph. D. program under its affiliating University, Swami Ramanand Teerth Marathwada University (SRTMU), Nanded and under Quality Improvement Program of 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. SGGSIET is rich in highly qualified faculty with more than 50% of the regular faculty being Ph.D. holders.

In less than 25 years of its inception, the Institute has made a mark in technical education and quality research which got endorsed by a third-party survey constituted by Government of Maharashtra and headed by Dr. F. C. Kohli, Chairman, TCS. Through that survey conducted in 2004, SGGSIET, Nanded got identified as an Institute which can be raised to the level of Centre of Excellence along with other well-established institutes like COE, 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 including IITs and NITs across the country. Institute was ranked 89th out of the top 100 engineering institutes in India in 2015.

The Institute has state of the art equipment and machinery for teaching as well as research/consultancy services. Faculty have contributed for laboratory development through proposals to various funding agencies like AICTE, DST, BARC, NRB, etc. other than the funding obtained under two phases of TEQIP and from 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 establishment of a "Centre of Excellence" in the area of Signal and Image Processing (S&IP) under TEQIP.

The Institute has a very progressive and pragmatic approach in providing its services to all its stakeholders. We at SGGSIET believe in self-learning of students. It is always our endeavor to provide encouraging environment for students' learning. The Institute has collaborations with several premier institutes (including foreign universities) and industries through which opportunities like internships, credit transfers, industry relevant projects, etc are made available for the students. The students have also taken 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 (so far, our students have got AIR 1 four times in GATE), establishing their own ventures (including MNCs) 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 of serving the local administration/government agencies through a process of competitive bidding also. The research culture of the institute has been proven through publication in thousands of research contributions with good citation record in peer reviewed prestigious national/international journals and reputed international conferences. Many faculties are reviewers for international journals. Several books have also been published by the faculty. Patenting is becoming a promising feature of the institute basically because student projects are also getting converted into patents. Establishment of Innovation Laboratory and participation of roughly 15% of the total student strength in various Innovation projects is a key feature of the institution.

Academic Programs (Present Status):

Under Graduate Programs (UG): Presently the institute offers ten (10) undergraduate programs namely, Civil Engineering (1984, 60), Chemical Engineering (2009, 30), Computer Science and Engineering (1986, 120), Electrical Engineering (2011, 30), Electronics and Telecommunication Engineering (1981, 120), Information Technology (2000, 60), Instrumentation Engineering (1981, 40), Mechanical Engineering (2012, 60), Production Engineering (1984, 60), and Textile Technology (1987, 30), (Total sanctioned intake: 610)

Post Graduate Programs (PG): The institute offers ten (10) postgraduate programs namely, Mech. CAD/CAM (1996, 25), Civil Water Management Engineering (1991, 18), Computer Networks and Information Security (CN&IS) (2011, 18), Electronics Engineering (1987, 30), Information Technology (2011, 18), Instrumentation Engineering (1987, 18), Mechanical – Product Life Cycle Management (2009, 18), Structural Engineering (2015, 18) Textile Technology (2016, 15) and VLSI and Embedded System (2015, 18), (Total sanctioned intake: 196)

Ph.D. Program (Research Program):

Institute is recognized as a research center by SRTM University, Nanded for doctoral program, as well as by 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. As of now, number of registered Ph.D. scholars is 213 and number of Ph.D. awarded is 196.

Focus research areas:

- **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, Solar energy applications for Agriculture.
- **Textile Technology:** Spinning, Weaving, Non-woven, geo-textile, fiber spinning and productivity analysis.

Centre of Excellence in Signal and Image Processing:

As a part of an ambitious plan, Government of India selected 30 best institutions from all over India through competitive proposals for establishing Centers of Excellence for collaborative and multi-disciplinary research within specific thematic areas of regional or national importance. Indian government had 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, our institute 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 from various departments of engineering and basic sciences of our institute are actively engaged with the CoE. Members of CoE have strong publications numbering more than 1200 in peer reviewed journals and conferences with cumulative citation index of 5500. Presently more than 100 scholars are registered for Doctoral program. 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 carryout frontier research in Signal and Image Processing, and
- Training of R&D manpower for industry.

Center for VLSI Design and Verification- Supported by Mentor (Siemens):

VLSI center was established with an objective of empowering the students and research scholars for electronic circuit design and its implementation on chips through the requisite knowledge and skills. The laboratory is well equipped with almost all the software required for VLSI Design (such as all tools of Mentor Graphics: HEP Category I, II; Cadence Research bundle, Tanner Tools, Xilinx ISE, Microwind). Use of open source software for SPICE such as NG Spice, etc. are also promoted in the laboratory. Other notable facilities include SPARTAN-II, Vertex-5, Xilinx video processing kit, etc.

A graduate program with specialization in VLSI and Embedded systems has also been launched. The curriculum is carefully designed to the industrial requirements with the help of industrial contacts and Alumni working with organizations like Applied Micro, Texas Instruments, Intel, etc.

The Center promotes the students to engage in real life problems and therefore has been a notable entity of our Institute.

SGGS-SAI Center for Research and development in Cyber Security :

SAI Technology (SAI), 2376 Walsh Ave, Santa Clara, CA 95051, USA is an innovative provider of Cloud Communications-as-a-service (CCaaS). SAI provides workflow security in all cloud topologies. SAI delivers DATA/VIDEO security for all cloud communications solutions that help organizations store and protect critical data from Cyber attacks with SAI Cloud Secure solutions. SAI enables companies to effectively meet the Cyber Security complex features with high availability, failover for mission critical applications.

This facility provides inhouse opportunity for students to carry out research and development in the area of Cyber security, Block chain, Artificial Intelligence and networking.

Centre of Excellence in Metal Forming:

This centre has been set up for imparting training and to carry out research in cutting edge technologies in the area of metal forming encompassing focus on bulk forming including forging, rolling, extrusion, wire drawing, tube drawing, roll forming, and sheet metal forming including press working operations such as bending, deep drawing, stretching and combined mode of forming of sheet metal parts and issues related to spring back and blank hold force and draw bead design, material formability property evaluation and characterization, design of forming equipment's, tooling and fabrication techniques, extending to micro forming and forming non-metallic materials such as composites and acrylic.

Latest Manufacturing Simulation Kit added in this center includes casting, bulk metal forming, sheet metal forming, heat treatment; CNC machining along with static, dynamic and crash analysis tools provide additional strength. The die sinking EDM, Wire Cut EDM, Electro Chemical Machining set up, Hass make CNC Machining center and M. Tab CNC Turning center, CMM Machine and rapid prototyping machine, incremental forming set up provides back up for tooling design efforts.

CAD/CAM:

Post graduate program in Mechanical CAD/CAM was started in year 1996 with intake of 18 which was later increased to 25 in 2004. Most of the students admitted to the programme are GATE qualified. State of art facility in the field of CAD/CAM is available in the department. The labs are equipped with EDM, wire EDM, ECM, Micro EDM, rapid prototyping, CNC lathe, CNC milling machines etc. CAD lab of the department is equipped with high end hardware and software's as NX 8.5 ANSYS 11 (Research version), CATIA etc. Most of the students carry out their one-year projects in Mahindra and Mahindra Ltd., Larsen and Toubro, Whirlpool, Greaves Cotton, BAJAJ Auto, 3D PLM Ltd. IIT Bombay, VNIT Nagpur, RRCAT Yamre, IPR Ahmedabad, Thermax Ltd., VRDE Nagar, Bosch Ltd. NaShik etc., Many of them got placement through the internships. This program well supported by adjunct faculties from different industries.

Product Lifecycle Management (PLM):

We, at SGGSIET-Nanded, look at PLM as a philosophy strongly based on lean thinking with its CAD based Information Management Tool being most suitable for making the New Product Development process lean. With our engagement in the Area of CAD/CAM since late 80s, we could start a graduate program in CAD CAM in 1996 and subsequently we could get involved in the latest and futuristic Area of PLM. Graduate program in PLM was started in 2009. Our alumni working in the area of PLM, highly placed industrial personnel working with Siemens and Dassault, and a few international faculties helped us frame the curriculum. In the very first year of its inception, the graduate program got a boom due to inclusion by Siemens' 'GO PLM' program through which we could acquire 20 licenses of "Teamcenter Unified" and "Community Collaboration". On the go, we acquired various other software namely Technomatix, Delmia, Windchill, etc to provide the students with the right environment and choices. Requisite hardware is also in place.

We have very good links with several leading industries of India who support us for expert lectures, adjunct faculty, curriculum design, internship and placement. Following is the not all-inclusive list of industries who support us: Siemens Industry Software Ltd., Siemens Global Delivery Centre, Mahindra and Mahindra Ltd., Tata Motors, Whirlpool, Greaves Cotton Ltd., etc. Mostly, second year students of the graduate program invariably carry out internship for one full year at the industries thereby helping us have strong industry bonds. Generally, the graduates are absorbed at the places of their internship.

Industrial Robotics training Center : (to be operational from 15th Feb 2021)

This center is established to provide opportunity of training the students in Engineering and those seeking employment in the domain with state of art hands on experience. This center contains 6 Industrial robots (YASKAWA Make) with 12 Kg, 5/6 axis robots, with one with Vision ability. This will create job opportunities for students in the adjoining area.

Technology Innovation and Entrepreneurship Centre:

“Initiate-Innovate-Implement” principle is being practiced at SGGSIET through many engineering teams for innovation development. The teams are of interdisciplinary nature. Student members get involved in design and development of new product, implement new ideas and features from ground up – no dealing with legacy! Presently students are working on various interdisciplinary projects like –Smart Quad-copter, Bus Tracking System, Energy Generation, Water Purification System, RC Plane, RFID based systems, also providing solutions to local industries and Municipal Corporation. We leverage open source technologies in all these areas and add incremental value on top of them. The patents are also filed based on different innovative projects carried out by the students. During the academic year 2013 to 2015, twenty patents have been filed by the institute, one international patent awarded. The facility created in the institute helps students in continuously improving their technical knowledge as well as improving overall creativity performance. The Institute is open to provide the facility to incubate the new technology-based entrepreneurs.

Departments in Brief:

Department of Chemical Engineering:

The department started in the year 2009-10, with intake of 30. The faculty is well qualified & dynamic. This department has well equipped laboratories – (i) Chemical Reaction Engineering, (ii) Process Control and Simulation, (iii) heat Transfer, (iv) Mass Transfer, (v) Fluid Flow Operation, (vi) Gas Chromatography, (vii) Applied Chemistry. Placement of the department for the earlier batches in about 70%. Achievements: Signed MoU with NIT Nagpur; Got best project prize for consecutive two years from TCS; Third year students got first, second and third prize in National level project competition at IIT Roorkee; Students also got third prize at IIT Bombay in Chem-e-car competition; Department arrange the special lecturers, industry visits and expert talks from industry people as well as professors from ICT, IITs and NITs; Organized a National level conference on “Environmental & Energy Aspects for sustainable Development” and STTP on Application of Bioprocess & Nanotechnology in Chemical Engineering.

Department of Civil Engineering:

The department of Civil Engineering has been in existence since 1984 and has grown into full-fledged department with specialization in the areas of i) Water Resource Engineering and ii) Structural Engineering. The department has three major missions: 1. Excellence in Teaching & Research, 2. Imparting Knowledge Relevant to the Industry and Society. 3. Contribution to Sustainable Development. To carry forward this mission and bring synergy, the departmental activities embrace planning, design, and consultancy. We also organize special lectures, field visits, expert talks etc. for students. As a result of which the students are placed in various reputed core and software companies. The department has well equipped laboratories. Our computer center has all state of art software in the area of water resources engineering and structural engineering. The faculty is actively engaged in R&D activities and have many publications in peer reviewed national and international journals and conferences to their credit. The department has produced more than 20 doctorates. The academic programs, B.Tech., M.Tech., and Ph.D. in Civil Engineering are amongst the best in the country. Many of faculty members have received advanced training from reputed institutions in India. Many of our alumni hold prestigious position in leading academic institutions, industry and the Government in different capacity. A good number of the alumni are successful entrepreneurs in various sectors like construction, water resources, information technology, consultancy firms etc. Many are working abroad in different countries. It is also actively engaged with international institutions for research exchange, specialized international collaborative training and other activities.

Department of Computer Science and Engineering:

The department has excellent computing facility with high speed intranet and internet connectivity. Human resources at the department are rich blend of experience and dynamism. The department

continuously strives for a strong network with the alumni, industry personnel and faculty of premier Institutes. The department has strong association with the leading industries such as Tata Consultancy Services Ltd., Pune, IBM India Pvt. Ltd., Bangalore and Persistent Systems, Pune is a key feature of the department. Motivating the students for higher studies and entrepreneurship is one of the best practices. Alumni are working with leading industries like IBM, Intel, Infosys, Google, etc.

Department of Electrical Engineering:

The department of Electrical Engineering is started in academic year 2011-12 with intake of 30 students. The department provide standards. The department provide standard education as per requirement of Industry. Great care has been taken while designing syllabus of the department to full fill the need of industry as well as various competitive examination. Students are taking active part in different research base project competition and many students are awarded at National level competition. Few students were also selected in IIT Mumbai for internship object after National Level screening test and also few students have filed patents on their projects. The department has keen interest in signing MoU with industry and premier educational Institute enhance academic quality of department. Students have been selected in companies like Reliance, TCS, Vidyut Control etc. The Department has strong interaction with industries like MHADISCOM, Aplab Industries Ltd., Kohler Power System, PRDC, H.V. India, L.R. Nuclear consultant, N-Kennin transformer etc. Faculty members are regularly taking part in various STTP Courses, Conferences and publishing their work at National & International level.

Department of Information Technology:

The department of Information Technology has started its UG program in the academic year 2000-01 with an intake of 60 students and PG program in the year 2011-12 with an intake of 18 students. The department has very good infrastructure with enough laboratories for UG and separate laboratories for PG with excellent computing facilities. The department has an Advance IT Lab for research for UG and PG students. Syllabus is designed with the help of Industry Advisory Panel to fulfill the need of the industry as well as to help students to prepare for the exams like GATE. Department has signed an MoU with Industry for students' internship and projects. The alumni of the department are very active and provide continuous support in the development of the students and the department as a whole. The alumni are working with the leading industries like Persistent, IBM, TCS, Infosys GS Labs, etc.

Department of Instrumentation Engineering:

Department has always shared the vision of the Institute in striving for excellence in research and teaching activities and has succeeded in this endeavor to a large extent. The faculty is well qualified, dynamic and experienced. Well-equipped laboratory facilities are made available to the Undergraduate and Postgraduate students. Distributed Control System Lab comprising of Yokogawa DCS Centum VP, DCS Training panel, PLC's of various makes viz. Allen Bradley, Siemens, GE-Fanuc, ABB are available which helps to create industrial environment and execution of the real time automation projects. Numerous biomedical equipment, multi process trainer, multi variable control trainer, heat exchanger temperature control module are notable amongst the several equipment facilities. Department has built a strong network with alumni and industry experts. Various multinational companies like Reliance Industries Ltd, Emerson Export Engineering Centre, Thermax India Ltd, Petrofac Pvt. Ltd, Aker Solutions, Johnson Controls, Tata Consultancy Services, Honeywell, Tata power and Ipac Automation are the regular recruiters of our students. The goal of the department is to provide high quality state of art education, research, development and consultancy facilities for technological excellence in Instrumentation Engineering.

Department of Electronics and Telecommunication Engineering:

Established in 1981 with 30 students, now the department offers B.Tech. with intake of 120 and two PG courses - M.Tech. (Electronics) with intake of 30 and M.Tech. (Embedded Systems and VLSI Design) with intake of 18. The department was accredited by NBA in February 2003 and June 2008. The faculty is well qualified, dynamic and experienced (11 with Ph.D. to their credit, and 3 more pursuing). The department has strong research groups in Digital Signal and Image Processing, Speech

Processing, Computer Vision, Pattern Recognition, VLSI Design and Embedded Systems. The department has been achieving good academic results and is the top priority for admissions. The department has well equipped laboratories in VLSI, Embedded Systems, Computer Vision, and Communication Engineering. We receive funds from various agencies such as AICTE, DST, and State government, in addition to consultancy. Many faculty members are working on various committees such as AICTE, NBA, BOS, RRC of various universities. Also, they are reviewers for many international journals including IEEE, IET, Elsevier, and Springer. The department is a recognized research center of Swami Ramanand Teerth Marathwada University, Nanded since 1995. QIP research center with sanctioned intake of 2 was started from the academic year 2012-2013. It also gets funds for Ph.D. scholarships through schemes like Visvesvaraya Ph.D. scheme of DeITY of Govt. of India, TEQIP, and Center of Excellence in Signal and Image Processing. There is a close association with academic institutes like IIT Bombay, IIT Kharagpur, IIT Roorkee, and few other institutes/organizations of National Importance. In addition to this, we have a strong rapport with industry. Many companies - Mentor Graphics, Intel, Sankalp Semiconductors, IBM, Applied Micro, Texas Instruments, TCS, Cognizant, CDAC, Motorola, etc. to name a few - have contributed to the development of the department. The department has signed MOUs with many industries such as Mentor Graphics, Eklaksha VLSI R&D Centre Pune, CEERI Pilani, etc.

Department of Mechanical Engineering:

The department offers B. Tech. (Mechanical Engineering) since 2012-13 with an intake of 60 and M. Tech. (Mechanical – Product Lifecycle Management) with intake of 18 since 2009-10. Important features of the department are as follows: Established PLM & CAE Laboratory with software like TEAMCENTER, WINDCHILL, ANSYS, CARSIM and SUSPENSIONSIM; Established E-Foundry Cell in association with IIT Bombay having license of AUTOCAD, software for casting simulation; “Hingoli Fabrication and Engineering Cluster Development and Research Foundation”; Lot of industry connect like Paithani Cluster, Aurangabad, MoU and collaborative work with Practical Vision Consultants (PVC), Aurangabad, Industry Advisory Panel (IAP), comprising of experts from industry and research organizations including ARAI Academy, Pune, Yashshri Press Components, Aurangabad and Varroc Engineering, Pune; Appointed Adjunct faculty from industries and premier institutes; Some of the industrial partners for Internship / Placement support to students are TATA Motors, Pune, MACPL, Aurangabad, Yeshshri Press Components, Aurangabad, Jailaxmi Casting & Alloys, Aurangabad, Suddpram Auto Engineering Pvt. Ltd, Pune, Simplified Technologies for Life, Jalna, TATA Steel, Jamshedpur, Faith PLM Solutions, Pune, 3d PLM Software, Pune, Whirlpool of India Ltd, Pune; Product Life Cycle Management Laboratory, Strength of Material Laboratory, Mechanical Measurements and Metrology Laboratory, Engineering Metallurgy Laboratory, Theory of Machines Laboratory, Vibration Laboratory, Applied Thermodynamics Laboratory, Fluid Mechanics Laboratory, Heat Transfer Laboratory, Internal Combustion Engine Laboratory, Refrigeration and Air-Conditioning Laboratory, Mechatronics Laboratory, Automobile Laboratory, Turbo Machinery Laboratory, Neural Network Laboratory, Solar Research Laboratory; Laboratories are well equipped with state-of-the-art facilities that cater the needs of the UG, PG and Ph. D. students.

Department of Production Engineering:

Department of Production Engineering, established in 1984 with an intake of 30 (UG) students, has grown in size and stature and offers undergraduate course of Production Engineering with an intake of 60 students. The department is having highly qualified faculty, staff and well-equipped laboratories and workshop. The modern facilities for tool engineering and manufacturing support (design, analysis and manufacturing), state of art computational & CAD/CAM facilities, departmental library, student’s association (PESAM), etc. Research and development activities in the fields of NCMP, CAD/CAM, CAE, etc. are the major features of this department. Our alumni are highly placed in sought after industries and administrative services. Our students have secured AIR 1 in GATE examination thrice. Students, projects are innovative in nature and 06 patents have been field so far. The department focuses on all round development of the students through exposure to industries and innovative project contest.

Department of Textile Technology:

The department offers B.Tech., M.Tech. and Ph.D. programmes in Textile Technology. The department Provides latest and relevant quality education covering various aspects of design, development and manufacturing of textiles. Department has eight faculty members out of which six are doctorates (mostly from IITs). The department has well equipped laboratories of spinning, weaving, testing, knitting, geo-textile, computer and processing. These laboratories are well equipped with state-of-the-art facilities that cater the needs of the UG, PG and Ph.D. students. In addition to this, department has strong interaction with industry and alumni. The alumni are working in most prestigious companies like Reliance, Raymond, Spentex, Morarjee, Welspun, Filatex, Supreme nonwovens, Trutzschler, Barmag, Infosys, Wipro, Cognizant, TCS etc. Department organizes seminars, workshop, alumni meet, industry visits, conferences for students and faculty. Every year, the department organizes community development programmes for the local unemployed youth and women in the field of weaving and knitting. Department has the MOU with the leading institute in Textiles. The department has appointed Adjunct faculty from industries and premier institutes.

Department of Mathematics:

In mathematics faculty primarily do research in Algebraic Geometry and Coding Theory. The research undertaken is mainly in the areas: Finite Fields, Algebraic Geometry and Coding Theory. We always try to explore the interdisciplinary research between Coding Theory, Computer Science, and Information Technology, Mathematics Department has association with research institutes like Department of Mathematics, IIT Bombay (India), Department of Electrical Engineering, IIT Bombay, (India), Poncelet laboratory (UMI, 265 du CNRS) Moscow (Russia). Indo- Russian Project: Department of Mathematics, SGGSI and T, IIT Bombay and Poncelet Laboratory, Moscow have received an Indo-Russian project sanctioned by Govt. of India and Russian Government worth Rs. 17 Lakh. The main objective of the project is collaborative research “Algebraic Varieties over Finite Fields and Linear Error Correcting Codes”. We have organized an international conference on Algebraic Geometry and Coding Theory at IIT Bombay as a part of this project. We also have visited Poncelet Laboratory to carry out the joint research. We are planning to organize a bilateral workshop in India as well as Russia to promote further ties between researchers from both the countries in the relevant area.

Features of Institute:

- One of the very few State Government aided Institutes in the State to attain Autonomous status in the year 2004. Autonomous status was extended twice. Recently UGC has extended Autonomous status up to 2021-22.
- Many programs accredited by NBA some UG and PG programs accredited 4 times. Current Accreditation status four UG Programs and two PG programs accredited by NBA (2018-2021). Application for other programs and NAAC is in progress.
- Merit based Admissions `through State Level Centralized Admission Process
- Good placement record. Total number of students selected on-campus in Academic year 2014-15: 332, 2015-16: 372 and 2016-17: 350, 2017-18 : 283
- Special facilities for research in the areas of cutting-edge technologies
- Industry Sponsored Laboratories and Centers.
- Strict Academic discipline and adherence to academic calendar. Continuous assessment, 100% classes, on-time exams and results.
- Engineering exploration Laboratory- introduced from AY 2018-19 to FY all branches
- Institute was selected through National level competitive bidding for financial assistance of World Bank Assisted programs: TEQIP-I, TEQIP-II, Center of Excellence in Signal and Image Processing and TEQIP-III and also presently, the Institute is mentoring College of Technology, Pantnagar under TEQIP-III.
- Institute executed 24 MoU’s with Industries and 17 MoU’s with Institute/Research Organization (National/International) in last 5 years.
- Patents (Filed – 24, Granted - 02)
- Research Symposium to nurture a research attitude and motivation for higher studies.
- Creation of new laboratories and Industry sponsored laboratories- To provide the new and advanced practical environment to implement the new ideas.

- Adjunct Faculty from Industries and reputed Institutes
- Special initiatives for career guidance and competitive examination like GATE/UPSC
- Has International Research Collaboration: UTP Malaysia, City College, Univ of New York.
- Institute offers various Research Schemes for doing Ph.D. with fellowship under QIP-Ministry of HRD, Visvesvaraya Ph.D. Scheme - DEiT, TEQIP, Centre of Excellence, Maulana Azad National Fellowship and special Institute research scholar scheme.
- Choice Based Credit System (CBCS) – allows flexibility in teaching-learning process
- Liberal Learning Scheme (LLS) – to nurture the hobbies of students
- Credit Transfer Scheme (CTS: VJTI, COEP, WCE and SPC) –students to study one semester in other reputed Institute (2013-14: 1, 2014-15: 23, 2015-16: 6 and 2016-17: 20)
- Certificate courses on Foreign languages (Spanish - 2014-15: 82, 2015-16: 31 and 2016-17: 80, French -2014-15: 75, 2015-16: 30 and 2016-17: 47 and German- 2016-17: 33)
- Pragya – National Level TechFest – to demonstrate technical and administrative skills – from last thirteen years institute is hosting this event with around 3500 participation.
- Robotics for Next Generation (RNxG) – platform to integrate inter disciplinary projects
- “Utsav” Annual Cultural Festival – to demonstrate their artistic skills
- Drishti – Institute Magazine – to promote reading and writing culture
- Zenith - Institute Sports Event – inspiration for participation in sports from technical institutes across the state (Started in academic year 2015-16)
- UPSC Chapter – platform to prepare for competitive examinations – started in 2010 and @100 students are member of this chapter (through rigorous selection process)
- Scholarships support through Alumni – to encourage competition and social awareness (Sadbhavana Scholarship, Ashiyana Scholarship.
- Graduation Day (Student's Felicitation and Farewell Function) - Director's Gold medal and Certificate of Academic Excellence for Institute Topper, Gold, Silver and Bronze medal for Toppers in respective course.

Facilities:

- Eco friendly green campus spread over 46 acres in Vishnupuri, Nanded.
- Very good infrastructure facilities, equipment for overall academic development.
- Smart Classroom – to provide the best and conducive environment for teaching and learning and also to encourage self-learning. All the classrooms equipped with Projectors, PA systems with settop boxes.
- Fully Wi-Fi connected campus – to access the various resources of information and knowledge at anywhere anytime.
- Sports facility and AC Gymnasium.
- 24x7 laboratories are open – to accelerate and experience learning process through practicals
- (TIEC) Technology Innovation and Entrepreneurship Centre – to nurture the technical ideas and sharpen their minds towards entrepreneurship.
- The institute central library has large collection of 54000 library books and 16000 book bank books of Text and Reference books – Open for more than 16 Hours per day.
- Boys and Girls Hostels: Well-maintained Boys and Girls Hostels with a capacity each approx. 650 each, Limited Faculty quarters, married Ph. D. scholars’ accommodation.

New initiatives:

1. 3-week induction program as suggested by AICTE – Based on Jeevan Vidya (Universal Human Values)
2. Common Courses such as Business analytics, Project Management, English for technical Paper writing and Research Methodology and IPR at PG level- Compulsory for all branches
3. Curricular reforms – CBCS, Open electives- inter and intra departmental-interdisciplinary, Foreign languages, etc.
4. Examination Reforms – (20 marks in semester assessment based on class tests, quizzes, assignments etc.), 30 Marks Mid Semester examination and 50 Marks End semester Examination.

5. Six months of Industrial Internships for UG BTech students, One year for M Tech PG students and as per the need for six months/one year to Industries and research Organizations for Ph. D. students
6. Financial Support to student for presenting papers to recognized international Conferences once in their duration of program (4 Years for B Tech, 2 Years for M Tech and 3 Years for Ph.D.) to the tune of 50% from institute funds.
7. Financial Support to Faculty members – for presenting papers in international conferences (once in three years), Seed money for research, Purchase of Laptop, stationary and consumables etc.
8. MoU with industry associations such as CMIA (MAGIC), Aurangabad and NIMA, Nashik for project internships and incubation.
9. MHRD's Institute Innovation Council
10. More than 50 Experienced Adjunct faculty from Industries and academia supporting strengthening of academics etc.
11. During Covid-19 pandemic, all academic activities are carried out in online mode. Effective utilization of IITB Virtual labs and other facilities for students learning are provided in an online mode.

Director : Prof. Yashwant V Joshi : director@sggs.ac.in

Deans & Administrators

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8.	Dr. R. N. Joshi	Dean (Industry Liaison and I/C TPO)	tpo@sggs.ac.in ,
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11.	Shri. Sudhir Nilangekar	I/C Registrar	registrar@sggs.ac.in

Heads of the departments

Sr.No.	Department	Head of Department	E-Mail
1.	Civil Engineering	Prof. L. G. Patil	head.civil@sggs.ac.in
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3.	Electronics & Telecommunication Engineering	Dr. A. V. Nandedkar	head.etc@sggs.ac.in
4.	Information Technology	Dr. Mrs. A. K. Manjramkar	head.it@sggs.ac.in
5.	Instrumentation Engineering	Dr. Mrs. R. V Sarvadnya	head.inst@sggs.ac.in
6.	Production Engineering	Dr. L. N. Wankhade	head.prod@sggs.ac.in
7.	Chemical Engineering	Dr. P. G. Jadhav	head.chem@sggs.ac.in
8.	Textile Technology	Prof. A. K. Chakraborty	head.text@sggs.ac.in
9.	Mechanical Engineering	Prof. R. P. Parvekar	head.mech@sggs.ac.in
10.	Electrical Engineering	Prof. S. T. Hamde	head.ee@sggs.ac.in
11.	Mathematics	Dr. A. R. Patil	arpatil@sggs.ac.in
12.	Physics and General science	Dr. Mrs. R. S. Bhalekar	rsbhalekar@sggs.ac.in
13.	First Year Coordinator	Prof. S. B. Dethe	sbdethe@sggs.ac.in

Other Responsible positions

Sr.No.	Department	Head the section	E-Mail
1	Purchase Committee (Chairman) and Dean Procurement	Prof. S. S. Gajre	dean.proc@sggs.ac.in
2	TEQIP -III Coordinator	Dr. M. V. Vaidya	mvvaidya@sggs.ac.in
3	Center of Excellence in Signal and Image Processing	Prof. M. B. Kokare	mbkokare@sggs.ac.in
4	Technology Incubation and entrepreneurship Center, Innovation Laboratory and Industry Liaison	Prof. S. S. Gajre	dean.il@sggs.ac.in tiec@sggs.ac.in
5	Hostel (Rector and Warden)	Prof. R. S. Holambe and Prof. R. H. Chile	rsholambe@sggs.ac.in rhchile@sggs.ac.in
6	Campus Networking & Central Computing Facility	Prof. H P Ambulgekar	ambulgekar@sggs.ac.in
7	All Institute Websites/MIS-ERP	Dr. G. K. Pakle	gkpakle@sggs.ac.in
8	AICTE, NIRF, NBA, NAAC portals	Mr. P. P. Kanhegaonkar	ppkanhegaonkar@sggs.ac.in
9.	Librarian	Mr. S. U. Ambekar	suambekar@sggs.ac.in
10.	Sports In-charge	Mr. Raja Reddy	sports@sggs.ac.in
11.	Account officer (In-charge)	Mr. S. K. Bachewar	ao@sggs.ac.in
12.	Store Keeper	Mr. A. T. Wadikar	atwadikar@sggs.ac.in
13.	Site Department/ Section	Mr. S. T. Potdar	stpotdar@sggs.ac.in

Student Intake

Sr. No.	Programme	Intake
	UG Programmes (Total)	610
1.	Chemical Engineering	30
2.	Civil Engineering	60
3.	Computer Science and Engineering	120
4.	Electrical Engineering	30
5.	Electronics and Telecommunication Engineering	120
6.	Information Technology	60
7.	Instrumentation Engineering	40
8.	Mechanical Engineering	60
9.	Production Engineering	60
10.	Textile Technology	30

5% TFWS (32) 10% EWS (61) and 10% Lateral Entry (61) at SY level

	PG Programmes (Total)	195
1.	Artificial Intelligence	30
2.	Instrumentation Engineering	18
3.	Embedded systems and VLSI	18
4.	Computer Network and Information security	18
5.	Information Technology	18
6.	Mechanical-CAD/CAM	25
7.	Mechanical – PLM	18
8.	Civil – Water Management	18
9.	Civil-Structural Engineering	18
10.	Technology Technology	15

Students strength for AY 2020-2021

Sr. No.	Type	Total
1	UG	3003
2	PG	187
3	PhD	171
	Total	3361