



**Shri Sant Gajanan Maharaj College of Engineering
Shegaon, Maharashtra State, India**



Information Brochure



❖ **Source of Inspiration:** Revered Saint Gajanan Maharaj who appeared in Shegaon on 23rd February 1878 and attained *Samadhi* on 08th September 1910

❖ **Year of Establishment:** 1983

❖ **Undergraduate Programs: Bachelor of Engineering (BE)**

- Electronics & Telecommunication
- Electrical (Electronics & Power)
- Computer Science & Engineering
- Information Technology
- Mechanical Engineering

❖ **Post Graduate Programs:**

Master of Engineering (ME)

- Digital Electronics
- Electrical Power System

Master of Business Administration (MBA)

❖ **Recognition:**

- ISO 9001:2000 Certified
- Recipient of World Bank loan of US \$ 1.5 Million for infrastructure upgradation
- Accredited by NBA, AICTE, New Delhi and NAAC, Bengaluru
- Laboratories compliant for Ph.D work
- Autonomous Status will be awarded soon
- Rank #1 Engineering Institute in academics in the Region
- Automatic Solar Radiation Monitoring Station funded by Government of India
- Entrepreneurship Development Cell funded by NSTEDB, Government of India
- An Incubation Center Recognized by MSME (Micro, Small & Medium Scale Industries, Government of India)

❖ **Awards:**

- Award from Computerworld's Honor's Program Foundation, United States for implementation of ERP Solution in a non-profit organization
- 'Best IEEE Student Branch of Asia Pacific Region Award' in 2007
- IEEE Membership Growth Award (Asia Pacific) in 2008
- Best IT Implementation Award from PC Quest – a leading publisher of Computer and Information Technology related magazines in India
- Won First Prize in Nation-wide First VLSI Design Contest conducted by Cadence Design Systems (India) in 2006

- Sant Gajanan Tool Room (SGTR) was awarded First Prize in Micro Enterprise category at Maharashtra State level exhibition in 2009
- Department of Business Administration and Research (DBAR) has been listed amongst Grade 'A' business schools of India by 'Business India' magazine survey

❖ **Faculty:**

- Majority of faculty members with M.Tech/Ph.D degrees from NITs, IITs and other Institutes of repute
- Excellent faculty retention even in environment of fierce attrition
- Faculty members have visited USA, Japan, Germany, Canada, China, Nepal, Pakistan for purpose of paper presentation and for fostering partnerships of strategic importance with Institutions abroad
- Faculty members have authored technical books, publishers being of International repute
- Faculty participation in Rural Development Projects, live applications of technologies

❖ **Amenities:**

- Sprawling 100 acre campus
- Campus-wide Wi-Fi connectivity with Internet
- More than 1000 computers
- Out of total 1850 students, 1400 reside in 07 hostels on campus
- 60% of staff members reside on campus
- 320 KVA Automatic Power Backup Facility
- Prayer, Yoga and Meditation Halls
- Air Conditioned Guest House, Canteen, Dispensary, Bank ATM
- Campus-wide ERP solution
- Indoor and Outdoor Sports including well equipped gymnasium
- Cricket Academy in collaboration with the Vidarbha Cricket Association
- Industrial Design Centre

❖ **Library:**

- Three Storie Building, Area 2200 m²
- 77424 books
- 361 journals
- Online Digital Libraries of IEEE, ACM and ASME
- Well equipped study center
- Reprographic facilities
- Interlibrary Lending Services: American Library Resource Centre, British Council Library, IIT Bombay

- 4 Million bibliographic records of books, journals through DELNET, New Delhi

❖ **Departments:**

- **Electronics & Telecommunication:**

- **Labs:** VLSI and Embedded Systems, Digital Signal Processing, Communication Engineering, Digital Integrated Circuits, UHF and Microwave, Instrumentation, Power Electronics, Microprocessor and Microcontroller
- **Software Packages:** MATLAB, MultiSim, PSPICE, Active HDL, Synplicity, Mentor Graphics Suite

- **Electrical (Electronics & Power) Engineering:**

- **Labs:** Switchgear and Protection, High Voltage, Microprocessor, Control System, Electrical Measurements, Electrical Machines, Power Generation & Utilization
- **Software Packages:** MATLAB, ETAP, PSCAD, LABVIEW, d-Space

- **Computer Science and Engineering:**

- **Labs:** Object Oriented Programming, Database, Digital Signal Processing, COMET
- **Software Packages:** Windows Server, Sun Solaris, Borland C, JDK, Enterprise Linux

- **Information Technology**

- **Labs:** Web Technology, Operating Systems, Embedded Systems, Digital Microcomputing
- **Software Packages:** Linux, Oracle, Prolog, Visual Studio, Windows Enterprise Server Edition, RTOS

- **Mechanical:**

- **Labs:** Mechatronics, Automation Engineering, Energy Conversion, Fluid Power, Mechanics of Materials, CAD/CAM/CAE, Heat Transfer, Refrigeration and Air-conditioning, Measurement System, Production Technology, Theory of Machines
- **Software Packages:** MATLAB, SolidWorks, CATIA, UniGraphics NX3

❖ **Separate Infrastructure for R & D:**

- **Intellectual Property Cell:**

- Facility for patent searching and patent filing
- Number of patents filed in India till date: **17**

- **Solar Energy Research Centre:**

- Electronic Circuits Design and Development Laboratory
- Research on Energy Storage Banks
- Energy Storage Bank approved by ERTL, Mumbai and also approved CPRI Bengaluru
- Design and manufacturing of Solar street lights, Solar home lights, Solar lanterns, Solar pumps and Solar Power Pack
- Solar energy products approved by MNRE, Government of India
- Solar energy products approved by State Government

- **VLSI and Embedded Systems Design Centre:**

- Cadence Design Full Suite with 35 modules
- Xilinx ISE with FPGA and CPLD kits
- ARM7, ARM9, Motorola 6502 Systems
- Design of analog, digital and mixed signal systems
- Close interaction with Industries
- **Sant Gajanan Tool Room:**
 - Product Design, Development and Training in field of mechanically engineered parts
 - Industrial Design Centre: Software like CATIA, Unigraphics, AutoCAD Solidedge etc.
 - **Product Development Facilities:** VMC Machine (Haas VF 2), CNC Lathe (Jyoti BS 200), Conventional Lathe (Makino), Milling Machines (Vernier, Hina, HMT), Surface Grinder (Simplex 7), Cylindrical Grinder (John-Shipman)
 - **Product Inspection Facilities:** Profile Projector, Tool Maker's Microscope, Slip Gauges, Height Gauge
 - **Training Facilities:** CMSD Control Simulators, CNC Lathes, VMC Machines, Conventional Lathe (Makino), Milling Machines (Vernier, Hina, HMT), Surface Grinder (Simplex 7), Cylindrical Grinder (John-Shipman)
 - Developed products for various Multi-national Industries such as Hindustan Unilever Ltd, Hindustan Aeronautical Ltd, Mahindra & Mahindra Ltd, Crompton Greeves etc.
 - Employability skill development training imparted to more than 1000 candidates every year from rural sector
- **CFD Research Centre:**
 - Equipped with advanced fluid flow computing techniques having CFX -10 Software purchased through Government of India financial grant
 - *Major Equipment:* IBM Sever, IBM Client Systems
 - Training courses for students
 - Workshops for faculty members
 - Research work on Fluid Flow Analysis
- **CAD/CAM/CAE Centre:**
 - *Hardware:* IBM Workstation (21 Nos.)
 - *Software:* UG-NX7, Solid Edge, AutoDesk Inventor Series Pro 7.0, CATIA V5R10, ANSYS 8.1, MSC NASTRAN, WITNESS, GATE Series
 - Consultancy services to industries
 - Conduction of short term training courses for UG students and faculty members
 - Employability skill programs for students residing in rural area
- **Electric Power systems Research Centre:**
 - Energy Management and Power Quality Auditing
 - Implementation of Artificial Intelligence and DSP in electrical system
 - Condition Monitoring of Electrical Machines
 - Testing of Online Changeover Switch for Power Source

❖ **Spirituality and Yoga:**

- Instructors for teaching yoga
- Daily prayer in College and Hostels
- Meditation for development of balanced personality and spiritual upliftment
- Spiritual discourses by revered Monks
- Spiritual retreats for staff and students

❖ **Student Activities:**

- Various Student Chapters that include IEEE, SAE India, ISTE
- Student Chapter activities include technical events & workshops, Short term training programs, Quiz Programs, Cultural festival, Games. Celebration of Engineer's Day, Teacher's Day etc.

❖ **Community Services:**

- Our parent organization, Shri Gajanan Maharaj Sansthan runs 45 philanthropic activities
- NCC and NSS members organize camps in rural area to educate people
- Blood donation camps

❖ **Training & Placement:**

- Leverages links with industries to provide training to staff and students during summer / winter vacation
- Soft-skill development programs
- **Recruiters:** IBM, TCS, Emerson, 3DPLM, TATA Motors, Legrand, Siemens, Bosch, Crompton Greaves, L&T, ABB, Mahindra & Mahindra and many more

❖ **Entrepreneurship Development Cell:**

- Efforts to nurture entrepreneurship abilities of engineering and management students and also of people residing in urban / rural areas
- Young, old, literate, illiterate, and financially challenged people are imparted skills so that they can earn a living by themselves

❖ **Contact Us:**

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