<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>One among 10 colleges in Kerala with 5 NBA Accredited Courses</td>
<td></td>
</tr>
<tr>
<td>FAB Lab (MIT, USA) &amp; IOT Lab</td>
<td></td>
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<tr>
<td>Dedicated high speed [436Mbps] fibre optic networked campus</td>
<td></td>
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<tr>
<td>Only ANSYS Campus in Kerala</td>
<td></td>
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<tr>
<td>54 University Ranks in 15 years</td>
<td></td>
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<tr>
<td>30 plus Innovations &amp; Inventions</td>
<td></td>
</tr>
<tr>
<td>100 plus companies recruited from campus</td>
<td></td>
</tr>
<tr>
<td>Unique personalized Mentoring Programme</td>
<td></td>
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</tbody>
</table>
SAINTGITS

SAINTGITS – Saint Gregorios Institutes of Technology & Sciences was established in 2002 by a group of eminent and experienced academicians who are pioneering educators with an empowering belief that continuous pursuit of knowledge in the sole path to success. Accolades at International, National & State Level eloquently demonstrate the grit and zeal of Saintgits in Academic Placement & Extracurricular activities. The Teaching-Learning Process is characterized by systematic methodology, dedicated & dynamic faculty and excellent facilities. Saintgits is well equipped to bring out the greatness in each student and transform them into true professionals. Saintgits with its breathtaking ambience, state of the art infrastructure, able & industry savvy leaders, dynamic education, application oriented professional education and research tie-ups with industries, is certainly the place to pursue scholastic goals.

Mission

To educate and train students for overall leadership in industry, research and all spheres of life through career oriented courses and mentoring programs which;
» Help students develop critical thinking abilities and a problem solving approach.
» Foster development of self confidence with versatility of mind.
» Prepare the individual for lifelong learning and professional growth.

Vision

Saint Gregorios Institutes of Technology and Sciences will be one among the globally renowned educational institutions. We will be known nationally and internationally for:
» High-quality faculty
» Rigorous research culture
» Academic freedom to pursue cutting edge technology applications
» A strong focus on making our youth ready for promising careers
» A value system with trust and empowerment at all levels.

To educate and train students for overall leadership in industry, research and all spheres of life through career oriented courses and mentoring programs which;
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» Foster development of self confidence with versatility of mind.
» Prepare the individual for lifelong learning and professional growth.

Governing Board

Saintgits College of Engineering is governed by reputed educationalists, technocrats and professionals. The core group consists of:

DR. H. KOSSIANAN GEORGIDES (President)
Developmental Science, Meteor and Biology of Rocks

DR. K. GEORGE BUTTLEFORD (Vice President)
Managing Partner, Concrete Products & Construction Company

ER. PURNIMI GEORGE (Executive Chairman & Secretary)
Executive Director, Engineers P Ltd., Chennai

ER. PHILIP LOGAN
Managing Director, Shankland Cox, U.A.E.

ER. V. K. MATHEWS
Chairman and Managing Director, IBS, Technopark, Trivandrum.

DR. N. BABU
Former Vice Chancellor, Kerala University, Fellow of Indian Society of Life Sciences.

Team Leaders

Mr. Thomas P. Joseph Director, Saintgits Group of Institutions Director, Former General Manager - Officer of Kerala & Lakshadweep Islands, Govt. of India, Former Secretary to Minister for Education, Govt. of Kerala

Dr. K. P. Pillai
Principal, Former Principal, College of Engineering, TVM, Former Executive Secretary, TVII

Lt. Col. Himadri Das
Chief Operating Officer & Associate President, Former General Manager - Oil & Adil Exports, Indian Navy

Dr. M.C. Philpodi
Principal, Former Principal, T & M College of Engineering
### Courses Offered

#### Undergraduate courses

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Seats</th>
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</thead>
<tbody>
<tr>
<td>Applied Electronics &amp; Instrumentation Engineering</td>
<td>60</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>120</td>
</tr>
<tr>
<td>Computer Science &amp; Engineering</td>
<td>120</td>
</tr>
<tr>
<td>Electronics &amp; Communication Engineering</td>
<td>60</td>
</tr>
<tr>
<td>Electrical &amp; Electronics Engineering</td>
<td>60</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>120</td>
</tr>
<tr>
<td>Chemical Engineering*</td>
<td>60</td>
</tr>
<tr>
<td>Food Technology*</td>
<td>60</td>
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</tbody>
</table>

*Awaiting approval

#### Postgraduate courses

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Seats</th>
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</thead>
<tbody>
<tr>
<td>Machine Design (ME)</td>
<td>18</td>
</tr>
<tr>
<td>Power Systems (EEE)</td>
<td>36</td>
</tr>
<tr>
<td>Geomechanics &amp; Structures (CE)</td>
<td>24</td>
</tr>
<tr>
<td>Structural Engineering &amp; Construction Management (CE)</td>
<td>24</td>
</tr>
<tr>
<td>VLSI &amp; Embedded Systems (EC)</td>
<td>24</td>
</tr>
<tr>
<td>Telecommunication Engineering* (EC)</td>
<td>24</td>
</tr>
<tr>
<td>Computer Science &amp; Systems Engineering (CS)</td>
<td>24</td>
</tr>
<tr>
<td>Robotics &amp; Automation (Inter-disciplinary)*</td>
<td>24</td>
</tr>
<tr>
<td>Three Year MCA Course</td>
<td>60</td>
</tr>
<tr>
<td>Two Year MCA [Lateral Entry] Course</td>
<td>60</td>
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</table>

### Chemical Engineering

Chemical engineers work to improve the quality of people's lives. From large scale industries to toys, from artificial organs to genes, a chemical engineer plays a vital role in using their wisdom to find the solutions to challenges involving everyday products. Chemical engineers are employed across a wide range of industries.

### Food Technology

Food technologists are needed to check quality, R&D, manufacturing or whether you are creating exciting new products, testing products for quality or doing research. A professional in the field of food technology can find the employment in the field of food manufacturing plant, research and development labs etc.

### Telecommunication Engineering

Telecommunication engineers are electronics engineers who specialize in design and installation of equipments used for transmitting wired phone, cellular, cable and broadband data. They solve problems revolving around wireless modes of communication and information transfer.

### Robotics & Automation

Robotics, an exuberant field integrates mechanical, electrical, electronics, control engineering, computer science, mathematics and science. Immense yourself in the most sought after discipline of today. The job prospects in this sector are immense in India and abroad.
SAINTGITS Accreditations

ONE OF THE ONLY 10 ENGINEERING COLLEGES OUT OF 174 COLLEGES IN KERALA WITH 5 UG PROGRAMMES ACCREDITED BY NBA IN THE NEW OUTCOME BASED EDUCATIONAL MODEL

One of the few engineering colleges, SAINTGITS, has been accredited by the National Board of Accreditation (NBA) in India. This accreditation is a testament to the institution’s commitment to excellence and quality in education. The NBA accreditation ensures that the programs offered meet the highest standards of education in India. Students studying in NBA accredited institutions can be assured that they will receive education which is a balance between high academic quality and professional relevance.

IEI promotes the general advancement of engineering and engineering science in India. As the world’s largest multi-disciplinary engineering professional society, the Institution is acclaimed to have pioneered non-formal education in engineering. The Institution of Engineers (India) [IEI] has bilateral relations with engineering professional institutions in 19 countries around the world and is also the founding member of major international engineering organizations.

The National Board of Accreditation (NBA), India initially established by AICTE-NBA is currently an autonomous body that promotes International quality standards for technical education in India. The NBA accreditation process, parameters and criteria for accreditation are in line with the best international standards and intended to assess the outcomes of the programmes. Students Studying in NBA accredited institutions can be assured that they will receive education which is a balance between high academic quality and professional relevance.
SAINTGITS uniqueness

With scientifically planned teaching methodology combined with a team of handpicked faculty – the best in the teaching profession and the state of an infrastructure the quality of engineering education at SAINTGITS is UNIQUE in all aspects. The primary focus of the institution is to expose young minds to the world of technology instilling in their confidence and instill to face new challenges and excel in their chosen fields.

**Faculty**

With a high teacher student ratio[1:12] and highly qualified and dedicated faculty the college has achieved its fame and name. The teaching fraternity are regularly updated with the latest teaching methodologies through National Colloquiums & Guest Lectures by esteemed professionals and training programmes offered by NITTR, ICT Academy, ISTE etc.

**Research Centers**

Provides opportunities for students to participate in research projects in association with MNCs and Institutions like BOSCH, Geojit BNB Paribas, IITs etc. Provides 24x7 facilities for students to brainstorm, to develop innovative projects, to initiate skype chats etc.

**SAINTGITSuniqueness**

The College has the distinction of being one among the 20 top rated colleges in Kerala which has Government funded FAB Lab and IoT Lab.

The institution has tie up with National Instruments, ANSYS Inc., AUTODESK, Infosys for Campus-Connect Programme and MoU with HCL Infosystems & Oracle University.

**SAINTGITS occupies the national second position in the usage of Virtual Lab.**

Provides opportunities for students to participate in research projects in association with MNCs and Institutions like BOSCH, Geojit BNB Paribas, IITs etc.

**Research Centers**

Provides opportunities for students to participate in research projects in association with MNCs and Institutions like BOSCH, Geojit BNB Paribas, IITs etc.

**International Alumni Chapters**

To provide a platform for students to express their views on technology and applied sciences in the global scenario.

**IBM Software Center of Excellence (IBM CoE)**

SAINTGITS joins the elite few Engineering colleges in our country by being chosen by IBM to set up the IBM Software Center of Excellence (IBM CoE).

**International Hostels**

International hostels with world class facilities for boys and girls have been established to offer students an environment conducive to study and exchange of ideas.

**National Virtual Lab usage award**

SAINTGITS occupies the national second position in the usage of Virtual Lab.

**Only ANSYS Campus in Kerala**

Establishing the only campus to sign a MoU with ANSYS which enables to evaluate various working conditions enabling to test a virtual environment before manufacturing prototypes of products.

**Kerala's First LabVIEW Academy**

LabVIEW Academy was set up in collaboration with National Instruments.

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**Student Clubs**

Robotics Club, IOT Club, Quiz Club, Photography Club, Design Club, Arduino Club, 3D Printing Club, CNC Club, Satellite Club etc.

**Counselling services beyond Academics**

Renowned Psychologist & Counsellor Rev Dr T.J. Thomas visits the college for student counselling. Renowned Counsellor provide life changing guidance to students helping them in the right decision making in their life.
The Welfare officer is also available to provide day to day mental and emotional support to the students. Counsellors help the students to destress by listening to their problems and suggesting simple solutions.

**Mentoring System**

Mentoring is the anchor that makes the students competent enough to face situations at the right time. Each faculty member is assigned 20 students which includes a mix of all branches of study. Regular mentoring that includes tips for dealing with exam stress, college life, day to day mental and emotional support to students, orientation help the students to destress by listening to their problems and suggesting simple solutions.

**54 University Ranks**

Besides the University Ranks in BTech & MCA in yesteryears, the institution has proved its mettle by the 1, 2 & 3 ranks bagged by Tech students in GGSU 2013, 2014 2015, 2016 & 2017.

**FAB Lab & IoT Lab**

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**Innovation Lab**

Provides IP3 Framework for students to sharpen their innovative spirit to venture into niche areas.

**Institute-Industry Partnerships**

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**International Conference**

To expose the students to varying trends in technology and applied sciences in the global scenario.

**SRISHTI-National Level Project Exhibition & Competition**

To strengthen the technology transfer interface between Academia, Industry and R&D establishments.

**Biennial International Conference**

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SAINTGITS was established with the aim of providing quality facilities on par with international standards. The college has well-planned and comprehensive infrastructure provided for both students and faculty. There are seven academic blocks in Saintgits College of Engineering which are exclusively earmarked for Civil, Mechanical, Electrical, Electronics, Computer Science & Applied Electronics departments.

The college has a well-equipped library. The fully computerised library is well stocked with 52,754 books and 220 National & International Journals. Students can access online journals of ASCE, ASME, IEEE, ScienceDirect etc. Digital library is supplemented with 3162 CD-ROMs covering diverse subjects in the curriculum. Library automation enables the students to check the status of a title and reserve the copy on system terminals.

Saintgits operates buses towards more than 18 destinations such as Kottayam, Kumarakom, Ettumanoor, Palai, Manarcadu, Ayarkunnam, Ponkunnam, Pampady, Thiruvalla, Kavumbhagam, Puramattom, Chengannur, Alapuzha, Mavelikkara, Edathuva, etc. Detailed routes are given in the website. Apart from these stated destinations, College buses also run to Kottayam & Changanassery through the campus.

Amenities of the college include a chapel, interactive sessions, fast food kiosks, college canteen, yoga & cultural centre, 24 hour ATM counter at campus. The college has well-planned and secure residential hostels for girls and boys. All the buildings are equipped with generators for backup power supply and provide comfortable stay and well-cooked food.

SAINTGITS was established with the aim of providing quality facilities on par with international standards.

Class Rooms With Modern Teaching Aids
Central Library

Computer Labs

Amenities & Welfare

Central Library

Amenities & Welfare

Class Rooms With Modern Teaching Aids
Central Library

Computer Labs

Amenities & Welfare

Class Rooms With Modern Teaching Aids
Central Library

Computer Labs

Amenities & Welfare

Class Rooms With Modern Teaching Aids
Central Library

Computer Labs

Gymnasium

Class Rooms With Modern Teaching Aids
Central Library

Computer Labs

Amenities & Welfare

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Computer Labs
Applied Electronics & Instrumentation Engineering

Applied Electronics & Instrumentation engineering is one of the most preferred branch today when it comes to engineering courses. An instrumentation engineer is essentially responsible for designing, developing, installing, managing and maintaining equipment which is used to monitor and control the engineering systems, machinery and processes. Almost all process and manufacturing industries have a separate instrumentation department, which is monitored and managed by instrumentation engineers.

Careers for Instrumentation Engineers

As Process Control & Instrumentation Engineer, Design Engineer, Control System Engineer, Telecommunication Engineer, Optical Instrumentation Engineer, Software Engineer etc in organizations like NTPC, Binani Zinc, FACT, KMML, Pharmaceutical firms, Food Production industries, Paper Industries, Travancore Cements, Oil Refineries, L & T, ONGC, BPCL etc.

The Department of Applied Electronics & Instrumentation Engineering (AEI) established in the year 2006, has now grown at full fledge pace with well experienced faculty and sophisticated laboratories. Saintgits teaching-learning process emphasizes on understanding concepts so as to enable the student for specific outcome orientation. The department has established Kerala’s first LabVIEW academy. Students get hands on training in state-of-the-art labs by industry experienced and professionally trained instructors.

ADD ON Courses

➢ PCB Design
➢ LabVIEW (National Instruments)
➢ PLC/Allen Bradley (Rockwell Automation)
➢ DCI (Philips)
➢ SCONA

Research Core Areas

➢ Robotics and Industrial Automation
➢ Intelligent Control Design for Industries
➢ Green Computing and Artificial Intelligence
➢ Digital Processing
➢ Design and Modeling of Systems

Industrial Training

Industrial training nurtures a student’s leadership ability and responsibility to perform or execute the given task. Students of AEI department undergo industrial training in the following organizations:

India: Hutchinson, Bangalore
Bharat Heavy Electricals Limited (BHEL)
Cochin Shipyard Ltd
O/E/N India Limited
Robert Bosch
Honeywell
Kerala Minerals and Metals Ltd (KMML)
Fluid Control Research Institute (FCRI)
National Instruments (NI)
Travancore Cements Ltd
FACT
NTPC Kayamkulam
KELTRON
Yokogawa
Prudent Solutions
KSEB
BSNL
Clarion Engineering & Steel Works LLC
Kumasi Sugars Ltd

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Civil engineering is one of the core engineering professions in the world. It deals with the design, construction, and maintenance of the physical and naturally built environment including roads, waterways, tunnels, buildings, canals, dams, and bridges. To name just a few: Golden Gate Bridge, Eiffel Tower, Hoover Dam symbolises the creativity and innovative spirit of civil engineering as showcased in such projects created throughout the world. Civil Engineering

Industrial Training

Industrial training, where a student undertakes a period of training with an organisation to gain practical experience and to experience practical issues related to the Civil Engineering aspect of the project was dealt by the Department.

Research Core Areas

- Seismic Performance of Structures
- Numerical modeling of Soil & Foundations
- Soil Stabilization using various materials
- Sustainability of Geostructures
- Sustainability of Geostructures

State & National Level Initiatives

- National Program: Civil Engineering championship
- Build your bridge in two days” in association with ISM and Reliance Industries Ltd.
- Viz 2nd Century Knowledge initiative along with Dried Roadshow and Symbiosis Centre of Excellence on Civil Engineering aspect of the project was dealt by the Department.

Students have won prizes in various scholarships and competitions viz First prize in under Vizhak Engineering Class with KIC Madras and Shyam Mhais, Techknow infections, Twin Horizon Training Institute, Muzaffarnagar, J.N. Mahavir, construction companies...
Computer Science is the scientific and practical approach to computation and its applications. It is the systematic study of the feasibility, structure, expression, and mechanization of the methodical processes (or algorithms) that underlie the acquisition, representation, processing, storage, communication, and access to information, whether such information is encoded as bits in a computer memory or transcribed in genes and protein structures in a human cell. A computer scientist specializes in the theory of computation and the design of computational systems.

As Software Engineer, System Engineer (IT), IT Manager, Software Developer, Network Administrator, Software Analyst, Database Administrator etc. in reputed organizations like IBM, Infosys, TCS, Accenture, Wipro, UST Global, NeST Technologies, CTS, IBS Software, Central & Government agencies, BSNL etc.

Careers for Computer Science Engineers

Department of Computer Science and Engineering at Saintgits College of Engineering was started in the year 2004 with B.Tech Computer Science and Engineering course. Since then the department has been offering quality education with education helping our students to mature into mature graduates. Moving forward with a vision to impart quality education and a strong commitment to provide state-of-the-art computing facilities the department offers support for innovative projects and research publications in addition to the regular curriculum.

ADD ON Courses

» Cloud Computing – Apache, Hadoop
» Big Data Analytics – Programming
» Internet of Things – Raspberry Pi and Python
» Mobile Apps – Android, Phonegap
» Web Programming
» Cyber Security

PG Programme

» Master of Technology in Computer Science & Systems Engineering

Memorandum of Understanding (MoU’s)

» IBM
» Infosys
» UST Global
» Infosys, Bangalore

Industrial Training

Students will be more disciplined to follow rules and regulations when conducting industrial training. Students of CSE department undergo their industrial training in the following organizations.

» Infosys Trivandrum
» Micronsoft Chennai
» Bill Tyndes
» Jio Technologies Pvt Ltd
» Bosch Technologies Bangalore
» C-DAC, Cochin
» Infosys Bangalore
» Geiq Technologies, Bangalore

Startup Box for CSE Students

Students are being given Startup Boxes worth Rs. 2 lakhs to support their research activities in a Institutional Startup Incubation Scheme.

Research Core Areas

» Cloud Computing
» Data Mining
» Digital Image Processing
» Network Security

Labs

» Software Design and Programming Lab
» Computer Systems Lab
» Advanced Computing and Networking Lab
» Project and Research Lab

State & National Level Initiatives

» IBM Centre for Excellence – SAINTGITS
» IBM Software Centre of Excellence (IBM CoE)
» First prize in "HACKA THON - Start-o-Sphere" organised by IIM Kozhikode
» Two Teams of CSE Students Rewarded by Government of Kerala for Startup Initiative (Startup Box)
» Live Industrial Project with UST Global and NeST Technologies
» Infosys Campus Connect - to impart knowledge on emerging technologies in Computer Science.

Social Service Initiative: Jyothirgamaya - Enabling IT to underprivileged school students

Department of Computer Science and Engineering at Saintgits College of Engineering was started in the year 2004 with B.Tech Computer Science and Engineering course. Since then the department has been offering quality education with education helping our students to mature into mature graduates. Moving forward with a vision to impart quality education and a strong commitment to provide state-of-the-art computing facilities the department offers support for innovative projects and research publications in addition to the regular curriculum.
Electronics Engineering is involved with generation, transmission, distribution, protection, and applications of Electric Energy. The field of Electrical Engineering deals with the study and application of electronics. Electromagnetic and Power Systems. Electromagnetics and information technology cover the advancement in the field of communication, computer hardware, wired and wireless networks and compact personal gadgets.

**Careers for Electrical & Electronics Engineers**

Graduates from the B. Tech. (EEE) programme can look forward to bright and challenging careers in design and development, manufacturing, marketing, and other exciting fields as Electrical Engineer, Power System Design Engineer, Instrumentation System Engineer, High Voltage Engineer, Management, and other exciting fields.

Students of EE department undergo their industrial training in the following organizations.

- The department has MoUs with the following companies:
  - BHEL
  - Hero
  - Kirloskar
  - IIT Kharagpur
  - IIT Madras
  - IIT Bombay
  - IIT Delhi
  - IIT Roorkee
  - IIT Guwahati
  - IIT Kanpur
  - IIT Kharagpur
  - IIT Hyderabad
  - IIT Madras
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Electronics aims at making the life of human beings comfortable and Communication brings them together. This branch of engineering is concerned with applying knowledge in electronics to facilitate communication and solve engineering problems. Due to tremendous advancement during last few decades, Electronics and Communication Engineering has gained its rightful place.

Electronics and Communication Engineering is an all-time favorite branch at Saintgits. The ECE Department is enriched with qualified and experienced faculty members with several years of exposure in premier institutions like IIT, NIT etc. While building a solid foundation of the fundamentals, the students are exposed to emerging trends in the industry and moulded to be competent professionals of the future. The state-of-the-art laboratories and infrastructure cater to the needs of the learning community. With its streamlined methodology, the department moulds the budding professionals to make history through their positive contributions.

The main importance of industrial training is to expose students to the working environment in industry. So, it will enable students to understand the theories studied with more detailed and hands-on practice within a real job situation. Students of ECE department undergo their industrial training in the following organizations:

- BSNL
- KSEB
- Indian Railways
- V - Guard
- Novac Electrical and Allied Engineering
- H.N & H.B Engineering College
- Welcomindia Electronics Development Corporation Limited
- The Travancore Cements Ltd.
- NITC Koppamukh
- Indian Railways Southern Railway
- TELK Angamaly
- The Travancore Cements Ltd.
- Power Grid Corporation of India Ltd.
- Imperial Engineering Company, Ernakulam
- Procast Poly Plast Pvt. Ltd. Banglore
- Pragati Poly Plast Pvt. Ltd.

ADD ON Courses

- Introduction to Electronic Product Design
- Electronic Product Design Phase 2
- PCB Manufacturing
- Digital Design using XILINX
- Circuit Simulation using ORCAD
- FPGA based System Design
- Embedded System Design & Simulation using MATLAB

PO Programme

- Master of Technology in VLSI Design & Embedded System Engineering
- Master of Technology in Communication Engineering

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- Pragati Poly Plast Pvt. Ltd.

Memorandum of Understanding (MoU’s)

- Digital Core Technologies Pvt Ltd
- Anant Technologies(P) Ltd
- The Institution of Electronics and Telecommunication Engineers
- Voda Perfect Audiology, Australia
- General Technologies

Research Core Areas

- VLSI
- Analog and Digital Communication
- Embedded System Design
- Digital Signal Processing
- Service modelling

Laboratories

- Communication Lab I & II
- Digital IC Lab
- Multiprotocol & Microcontroller Lab
- Project Lab
- VLSI Design Lab I & II
- VLSI Research Lab
- Electronics Design Automation Lab (EDA Lab)
- Pragati Lab

CAREERS FOR ELECTRONICS & COMMUNICATION ENGINEERS

As Telecommunication Engineer, System Design Engineer, Instrument System Engineer, Electronic System Engineer, Broadcasting Engineer etc in Central and State Government, Public Sector companies, Indian Engineering Service, ISRO, DRDO, All India Radio, Indian Telephone Industries, MTNL, National Physical Laboratories, Civil Aviation, Post and Telegraph, Bharath Electronics Limited, BEL, ONGC, Semiconductor Industry, VLSI Design Industry, Civil Aviation Department, Entertainment industry, Research establishments etc.

The Travancore Cements Ltd.

- BSNL
- KSEB
- Indian Railways
- V - Guard
- Novac Electrical and Allied Engineering
- H.N & H.B Engineering College
- Welcomindia Electronics Development Corporation Limited
- The Travancore Cements Ltd.
- NITC Koppamukh
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- Procast Poly Plast Pvt. Ltd. Banglore
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ADDITIONAL COURSES

- Introduction to Electronic Product Design
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- Project Lab
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- VLSI Research Lab
- Electronics Design Automation Lab (EDA Lab)
- Pragati Lab

State & National Level Accolades

- Received grant of Rs. 50000/- from Institution of Engineers (I) & Rs. 16000/- from Kerala State Council for Science Technology & Environment (KSCSTE)
- The project titled Digital Vehicle Identification won the Best Electronics Project award in National Level Project Exhibition & Competition.
- Mr. Harish Mysore, Director IEEE India Operations inaugurated the IEEE SSCS funded "Tailor made Courses" designed and crafted by the ECE faculty for enhancing the employability and also to train students to meet industry requirements.
- One student team has been selected for the second phase of Bosch D.N.A. Electronics Challenge.
Mechanical Engineering

Mechanical engineering is one of the oldest branches of engineering. It is also referred to as the ‘mother’ branch of engineering. Mechanical engineers have to deal with concepts such as Mechanics, Thermodynamics, Robotics, Kinematics, Fluid Mechanics and many others. These concepts are applied in the process of designing state-of-the-art manufacturing units, different types of motor vehicles, aircraft, aerospace and a vast assortment of industrial machinery.

Careers for Mechanical Engineers

Mechanical Engineers are required to design, test, manufacture, install, operate and maintain a wide array of machines and mechanical systems that are used in automobiles, space research, aeronautical, energy and utilities, air conditioning and defense industry. Major employers include MRF, V-Guard, Ashok Leyland, Maruti, Bosch, NTPC, DRDO, ISRO, Oil Refineries, Shipyard, SSB, L & T, Paragon, ONGC, KMML, TVS, Appollo Tyres, FACT, HAL, BAARC, HMT, Indian Navy, Software Companies, etc.

ADD ON Courses

- AutoCAD 2010
- SolidWorks 2010
- ANSYS - ELEMENT CID
- CNC Center
- 3D Printing
- ME Project
- ME Lab

PG Programme

- Master of Technology in Machine Design

Memorandum of Understanding (MoUs)

- Autodesk Asia PTE Ltd
- CAD/CAM Training Services
- CoolCAD Technologies
- ANSYS
- BOSEIC Academic Centre/Bangalore

Industrial Training

With the active involved preparation in Industrial Training, the students learn about the industrial environment and get an idea about the real-life scenarios of ME department through their industrial training in the following organizations:

- Travancore Cements
- Jaquar
- MRF
- Paragon
- FORD
- AGM Motors - DACT
- SCTC
- Indian Auto Garage Limited
- ISMT
- RAMIL
- BHEL
- ISBT
- Cochin Refineries
- Apollo Tyres

The Department of Mechanical Engineering is one among the three founding branches of Saintgits in the year 2002. The four year B.Tech programme is integrated with theoretical and practical training in key industry linked technological domains including HVAC, Pneumatics, Automation, Mechatronics, Robotics, Aeronautics, Vehicle Design, Nano-Engineering etc. The Department which is accredited by NBA & Institution of Engineers (IE) has deep rooted bonding experience in premier institutions research organisation and industries. The association with California Institute of Technology (Caltech) USA, and BOSEIC India prove the mettle of the Department.

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SAE BAJA

Team Striderz Racing is one of just four teams to have qualified for the SAE India Baja 2017 event from the state of Kerala, and the only team from a private self-financing college among them.

Research Core Areas

- Micromachining
- Nanotechnology
- Advanced Composite Materials
- Multiphase Flow Dynamics
- Innovative Engineering Design

State & National Level Initiatives

- Special Role for the Innovative Project in HTT Techical 2017
- 15 ME projects funding from KSCSTE
- Grant of Rs. 15,000/- for B.Tech projects by The Institution of Engineers (India)
- Multi Liver Roll Chair has won National Award
- 1st Rank in E-Bot project by The Institution of Engineers (India)
- Best Department Stall at National Level Technical Project Competition.
- 3rd Rank in E-Bot project by The Institution of Engineers (India)
- State Best E-Bot Stall award from KSCSTE
- Special Prize for the Innovative Project in KTU Techfest 2017
- 10 ME projects funding from KSCSTE
- Grant of Rs. 50,000/- for final year B.Tech projects by The Institution of Engineers (India)
- Multi Lever Roll Chair has won National Award
- 1st Rank in E-Bot project by The Institution of Engineers (India)
- Best Department Stall at National Level Technical Project Competition.
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- Best Department Stall at National Level Technical Project Competition.
MCA at Saintgits is inclined more toward Application Development and thus has more emphasis on latest programming languages and tools to develop better and faster applications. We follow application-based teaching methods; the software packages used in the MCA department are from well-known companies. The laboratories are fully equipped with sophisticated and essential facilities available to the students on an individual basis and also provides a wide range of software components and file management services. The software required by high Lime and Windows operating systems is available to all students, who can download and install the software as per their necessity. The MCA department is striving to maintain and constantly update their software components and facilities to accommodate the research which includes individual projects for all faculty high-speed internet connectivity.

Excellence Coaching plan by outstanding results including university ranks
Higher Teacher Student Ratio to ensure personalized mentoring
Advanced industry linked Internship programs under AICTE, ABB, Hindustan University, Infosys
Value added courses on latest tools like NET, Android and Advanced
IBM Internships and Autodesk certified Internship/Training programs
Vibrant campus placement services which ensure placements for students on more than 100 companies in India and abroad
Faculty is supported by faculty members which increases job opportunities for students
Active recruitment schemes for students on event basis
International bursaries and fellowships which expose students to different global resources

State Level Championships
Win the Overall Trophy in the tech fest by organizing the ‘SAINTOY’ by Joseph College of Engineering and Technology. In the year 2015-2016.
Win the Overall Trophy in the tech fest ‘TECHNOSTRONG’ organized by KMCOST. February 2014.

National Level Academic Eminence
Saintgits MCA student has been selected for doing internship in IIT Bombay which is one of the premier technical institutes in our country. IIT has selected 10 best students from all India, based on assessment of Assignment, Mini Project, Academic records, and Telephone interview.

MCA & LATERAL MCA

Faculty Qualification
• M. Tech
• M. Phil/
• Ph.D

Faculty Experience
• 28%
• 44%
• 10%

Mathematics.Basics Sciences and Academic Support Departments

Mathematics

Department
Mathematics is a broad science that has captured the human imagination since ancient times. It is a fundamental tool of the natural sciences and social sciences, providing precision and power to scientific thought.

Physics Department

Physics can be thought of as the science of motion. From the smallest subatomic particles to the largest, most distant galaxies, motion in nature occurs over an incredible range of length and time scales.

Chemistry Department

Chemistry is the central science connecting all aspects of our daily life. Understanding of the fundamentals of Chemistry is essential to developing solutions for the environmental and global challenges of the 21st century. Our classes are designed to foster a process of problem-based learning where students today start from zero baseline environmental knowledge and develop a deep understanding of environmental foreign policy and policies for safeguarding solar energy and storage, to unraveling fundamental mechanisms for disease and the development of new treatments for their cure.

Physical Education Department

To achieve a healthier lifestyle while coping with the pressures of college, one needs to be healthy both emotionally and physically. As a part of the process, SAINTOY emphasizes the importance of sports and considers it an integral part of the continuous feedback; it has a number of sports activities organized by the Physical Education department. These activities are conducted by the Head of Physical Education, Prof. Dr. Chinchu K. Joseph. The faculty in the Physical Education department are assigned to different departments to guide the students according to their fields and help them in overcoming the challenges of life and sports.

Communicative Skills and Personality Development

The Department strives to create a basic awareness of the significance of soft skills in professional and interpersonal communication and facilitate development of these skills in students. We do this by making them component and essential to the development of skills necessary for achievement in life. We conduct a soft skills training programme which will address the importance of soft skills in the academic and professional lives of students. We are working towards developing a soft skills curriculum that is comprehensive and appealing to busy students. The students will be given flexibility, individuality and effective communication skills.
The workshops & laboratories allow faculty and students to

1. Understand traditional academic explorations and focus on the basic understanding of Physics, Chemistry, and their practical applications and skills. Students and faculty work in collaboration to push the limits of learning and innovation.

2. To understand the subject: workshop technology and to develop the skill and employability factors pertaining to various industrial applications.

3. Ensure safety and help students to develop the problem-solving ability and the ability to use electrical instruments and the application of such instruments in a safe manner.

4. To develop the analytical skills of the students and also educate them about the preventive measures for accidents and familiarize the students to various industrial applications.

5. The Chemistry Laboratory develops the analytical skills of the students and also educates them about the preventive measures for accidents and familiarizes the students with various industrial applications for a career.

6. The Physics Laboratory focuses on the usage of different electronics and electrical instruments and applications of such instruments in a safer manner.

7. The Moulding, Casting, Smithy, and Carpentry laboratories, which are particularly field-specific, develop the problem-solving ability and the ability to use electrical instruments and the application of such instruments in a safe manner.

FAB Lab - Fabrication Lab

A FAB Lab is a platform for - To Learn; To Create; To Innovate; To mentor, To Collaborate, To access; To create; To learn; To innovate; To create; To mentor; To collaborate; To access. The FAB Lab projects are an initiative to provide a platform for students to understand and familiarize themselves with the entire process of prototyping and fabrication industry and corporate requirements.

Virtual Lab

Virtual Labs enable students to conduct experiments by accessing their campus. This method of learning is an ideal way of teaching basic and advanced concepts through virtual experimentation. This method of learning is a cost-effective and time-saving approach, which is beneficial for students and faculty alike.

IoT Lab - Internet of Things Lab

The Internet of Things (IoT) is the concept of connecting everyday devices to the internet to enable data to be exchanged. The FAB Lab project is an initiative to exchange data in IoT devices through the physical world, helping to connect people, processes, and things. This enables students to learn and extend their knowledge in the future technological world.

Professional Bodies

Saintgits has chapters in various professional bodies. The main goal of these bodies is to serve faculty and student members through various activities about the employability and employability skills of faculty and student members.

Language Lab

To prepare students to be effective communicators as individual capacities and in novelty required to turn into global graduates.

Virtual Lab

Virtual Labs enable students to conduct experiments by accessing their campus. This method of learning is an ideal way of teaching basic and advanced concepts through virtual experimentation. This method of learning is a cost-effective and time-saving approach, which is beneficial for students and faculty alike.

Industry applications society - IAS

Indian Concrete Institute - ICI

Institute of Electrical and Electronics Engineering - IEEE

International Society of Automation - ISA

Indian Institute of Metals (IIM)

ACM Association for Computing Machinery (ACM)

Indian Society for Technical Education (ISTE)

The Institute of Electronics and Telecommunication Engineers (IETE)

Solar Energy Society of India (SESI)

The Indian Society for Electronics and Electrical Engineering - ISEE

Compuer Society of India - CSI

Indian Institute of Engineering Science and Technology - IIEST

Saintgits campus on 13th February 2017.

The young student researchers who have designed, prototyped and implemented the first IoT product in the USA.

The Fab Lab project is the educational outreach program for MIT's Center for Bits & Atoms.

To Innovate, To Create, To mentor, To Collaborate, To access; To create; To learn; To innovate; To create; To mentor; To collaborate; To access. The FAB Lab projects are an initiative to provide a platform for students to understand and familiarize themselves with the entire process of prototyping and fabrication industry and corporate requirements.

FAB Lab provides connectivity in a global community of makers, educators, technologists, researchers, and businesses that share a goal of education and innovation.

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Invent – thus promote design thinking.

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ACM

IEEE

IIW

IEEE
My four years of undergraduate experience in Electronics & Communication Engineering helped me to take a leading role in various Inter-collegiate and Intra-collegiate events and activities. I was the chief executive of SRM University Event-2008, the manager of SRM University Event-2009, and the D.G. of SRM University Event-2010. All the three events were conducted and the functions were appreciated by all the public, faculty, and students of SRM University. I was also associated with the Electronics projects in our college, where our team worked together and developed a device that helps to get connected to the Internet. I received a Gold Medal in Electronics in SRM University. I was also the chief executive of IEEE-Student Branch, SRM University, where we were working in various Inter-Collegiate and Intra-Collegiate events and activities. I was also the D.G. of IEEE-SRM University Event-2010 and the D.G. of IEEE-SRM University Event-2011. All the events were conducted and the functions were appreciated by all the public, faculty, and students of SRM University. I was also associated with various Projects in our college, where our team worked together and developed various devices that were appreciated by all the public, faculty, and students of SRM University.

Nigeer Anukripa

Lala Meri Am (also present) serving as an Engineering Officer in the Army Aviation Corps in our nation. The decision I made to join the Indian Army was based on thorough research and planning. The Indian Army is one of the most respected and admired forces in the world, known for its dedication and commitment to serving the nation. I joined the Indian Army to contribute to the nation's defense and security. I am currently working as a Senior Research Fellow in the Department of Atomic Energy, conducting research on various nuclear technologies. The research I am involved in is focused on advancing the field of nuclear energy and ensuring its safe and sustainable development.

Mr. Amey Vaidyanath

Ph.D. Research Scholar
University of Hyderabad

SAINTGITS ALUMNI ARE EMPLOYED IN

Accenture, Astha Bala Retail Ltd, Akshaya Technologies,Accent, Aditya Birla Retail Ltd, Al Jayo, Ananta System, Asian Paints, Astra, Bank of Baroda, Birla Pharma,

Atorvastatin, Automation, Bharat Forge, Birla Infotech, Birla Infotech,

Bharat Forge, Birla Infotech, Birla Infotech, Cauvery, CDA, CII, CARE,

Chennai, Colombo, Coca Cola, COAI, DMRC, D-Mart, D-Mart, D-Mart,

Dharmapuri, D-Mart, D-Mart, D-Mart, D-Mart, D-Mart, D-Mart, D-Mart,

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3D PRINTING CLUB
3D printing is a growing technology that allows the creation of three-dimensional shapes from computer-aided designs (CAD). It is a disruptive technology that is changing the way we design and manufacture products. The first commercially viable 3D printer was patented in 1989, and since then, the technology has advanced rapidly. The Robotics Club promotes the use of 3D printing in creating prototypes and models for robotics projects.

CO-CURRICULAR ACTIVITIES

Srivathi,

Srivathi is a co-curricular activity that is open to all students. It is an initiative that was started in 2007. Since then, the club has organized various events and competitions.

SANTIGITS CENTER FOR INNOVATION AND ENTREPRENEURSHIP (SCIE)

The Innovation Lab is an Institute-wide lab recently established to systematic assessment of possible interventions (such as policies like funding, mentoring, training, etc.) and their impact in the場合はどのようなですか？

STUDENT GRANTS

From 2007 onwards with unit number 195. NSS Tech cell of Saintgits imprinted its mark in our campus supportive environment for photographers at all levels of international arena.

SAINTGITS STARTUP BOOT CAMP

Inauguration of Saintgits Tech Fest 2017 in a platform for students to showcase and develop their ideas into real projects and products.

OPPORTUNITIES FOR STUDENTS

Innovation is the key to success in today’s competitive world. The success of a startup depends on its ability to think outside the box and create something new.

ENTREPRENEURS SPEAK

The process of innovation is not just about creating something new; it is also about thinking critically and creatively to solve problems.

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Inventions & Accolades

District collector U V Jose, Assistant collector Divya S Iyer, District authority and other dignitaries from CII listening to the working of the innovative project "Safety ensured Zebra line". Design and prototype by Sachin Paloothanam (AEI) and Princy Elsa Philip (ECE)

Sri. T K Jose, Chairman of Rubber Board of India implementing the innovative paddy harvester designed and prototyped by the students of Mechanical Engineering Department.

Vice Chancellor of APJ Abdul Kalam Kerala Technological University interacting with TRION-Walking and Talking robot designed and developed by the students of Robotic Club.

Executive Chairman of SAINTGITS, Er.Punnoosse George inaugurating AKASH-Innovative product developed by the final year students for the purpose of providing drinking water directly from the air.

Government of Kerala along with Startup village has selected 21 teams from all over Kerala as a part of promoting Innovation and Entrepreneurship. Two teams from Saintgits College of Engineering made it to the final 21. Chief Minister of Kerala presented the team members with Startup boxes which comprise of electronic gadgets required to materialize their ideas.

Ajit George Reji, Alwin Tom, Aswin D, Nirmal V Daniel, Gison C Andrews and Nidhin Madhusudanan of S6 EE (2013-17) has obtained the First Prize in the Robotic championship (ROBO-ZEST’16) conducted by RoboSpecies Technologies Private Limited at IIT Kharagpur

The IIW SAINTGITS Students’ Chapter is the 1st IIW Students’ Chapter in Kerala and the 2nd IIW Students’ Chapter in India. Sri. Jose P Philip, Chairman, IIW Cochin Branch (Kerala Chapter) has inaugurated the chapter.

For Developing a web portal that help farmers and the products directly to the end customers, Jithin M S, Govindan Nmpoothiri V, Jibin Joseph and Clinz Stephen has bagged third position in the two day Hack to Help – Social Innovation Hackathon jointly hosted by the US Consulate General Chennai and Learning Links Foundation with support of Kerala Startup Mission, Maker Village & Science Society of India. The competition had drew participation from All over Kerala.

College Magazine 'ODYSSEY' has bagged Kerala Mudrana Puraskaram 2017 – Silver Award for excellence in printing (Planet India Gold). The award was received by Staff Editor, Dr. Dipesh Tharani from Honorable Speaker Dr. P. Shri Sivasankar, Kerala Legislative Assembly at the award night held at Hotel State Farm Resort, Nedumbassery, Kochi.

Student team comprising of Mr. Nithin T, Mr. Thomas Gregory M, Mr. John Antony and Mr. Samy Raj has won a DECCOL Gold for the project "Lower Limb Mobility Assistance" in the 2017 Deccol
SAINTGITS COLLEGE OF ENGINEERING
Approved by AICTE and affiliated to MG UNIVERSITY & APJ ABDEL KALAM KERALA TECHNOLOGICAL UNIVERSITY
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E-mail: corporateoffice@saintgits.org

Location
SAINTGITS campus is spread over forty acres of breath taking greenery and is near to the Panachikadu Saraswathy Temple (Dakshina Mookambika). Well connected by a network of roads to Kottayam and Changanacherry, it is 4 km away from Kurichy junction in M.C.Road (State Highway No.1) and near to ANSS Homeo Medical College, Kurichy. The Kottayam (13 kms) and Changanacherry (8 kms) Railway Stations are easily accessible by buses plying right through the campus. The nearest airport is Nedumbassery-Cochin International Airport about 101 kms away via M-C-Road.

WE NURTURE THE INNATE GREATNESS OF OUR STUDENTS WITH WORLD-CLASS EDUCATION AND A WELL-STRUCTURED ACTIVE MENTORING PROGRAMME

AN ISO 9001:2008 CERTIFIED INSTITUTION