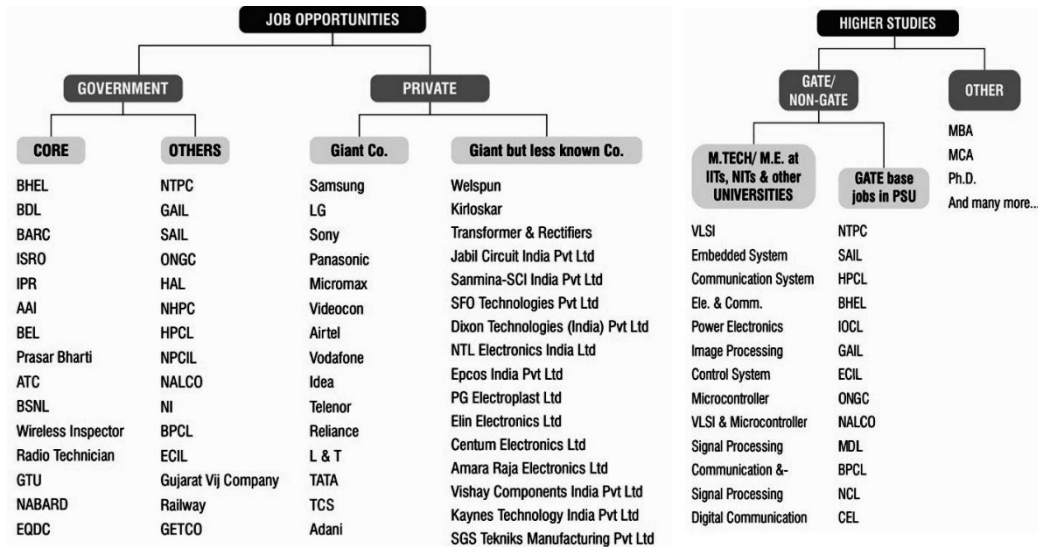


## FUTURE SCOPE



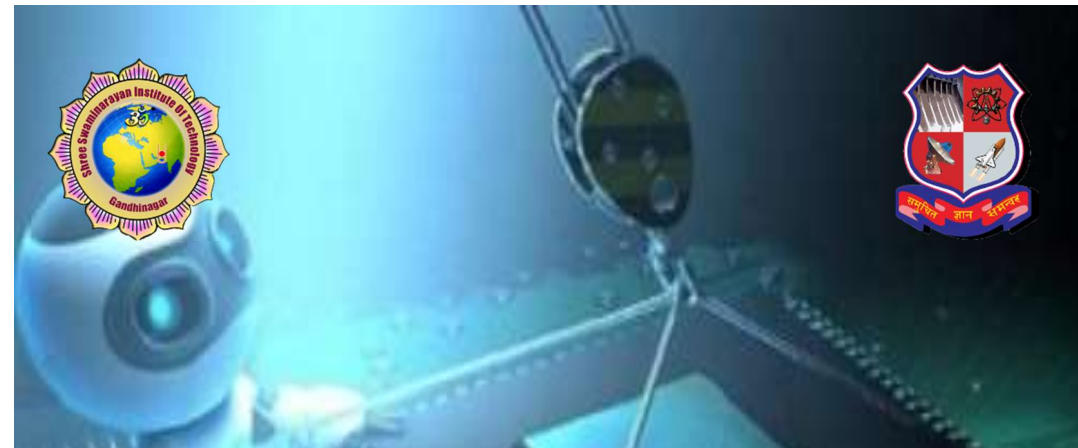
શિક્ષણ – સંસ્કાર સાથે સર્વાંગી વિકાસ....



Satsang Shiksha Parishad  
Shree Swaminarayan Gurukul, Gandhinagar  
**SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY**

Nr. Agora Mall & Indira Bridge, Sardar Patel Ring Road,  
Bhat Circle, Bhat, Ahmedabad.

Call 70436 09281, 94082 60607, 75748 12305



**SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY**



**DEPARTMENT OF ELECTRONICS & COMMUNICATION**



## ABOUT SSIT

Shree Swaminarayan Institute of Technology (SSIT) is managed by well established trust Shree Satsang Shiksha Parishad, Gandhinagar, Gujarat Popularly known as GURUKUL.

We are running 5 Core branches of Engineering and 1 Post Graduate Course of MCA. MCA college was established in 2001 than later on bachelor of engineering was introduced in 2014. Each Branch of Engineering is having intake of 60 students so that quality of teaching can be maintained.

## MISSION

To Provide Quality Education in the domain of Electronics and Communication Engineering. To Achieve Excellence in Technical Education through effective teaching-learning process and best infrastructure. To assimilate the students with research and innovation to be an Effective Engineer.

## VISION

To prepare engineers, competent to meet the needs of current technological advancements in the field of Electronics and Communication Engineering by establishing a learning environment consistent with industry standards in academics and research.

## ABOUT DEPARTMENT

Department of Electronics & Communication Engineering was established in the year 2014 and has a current intake of 60 students in Bachelor of Engineering. The institute being affiliated to Gujarat Technological University, the curriculum, examination and other academic structure of the department are as per defined by the University.

## TOPPERS VIEW



Everyone says college life is the best part of the life and I came to know this when I joined SSIT. This is the place where I learned a lot not only related to the syllabus but also about how to be good person.

**SHIVANI SAXENA (8TH EC)**

A new academic year begins with new energy and vibrant faces on the campus. I want to give a small message to every individual who joins SSIT that here you will get ample opportunities to explore and develop yourself.

**MEGHAL PATEL (6TH EC)**



SSIT provides an ambient and religious atmosphere for students. They work for overall development of students by conducting entrepreneurial, cultural and sports events.

**RADHA BARIA (6TH EC)**

SSIT not only focus on the syllabus but also provide practical exposure. They have a robotics lab named e-yantra which is helping us to learn and build small embedded applications.

**VIRAL RAVAL (6TH EC)**



Awesome College to learn and explore new things. After being part of this institute, I learn lot of good things from faculty and my classmates. This institute provides good opportunities for students who thinks out of the box.

**KUSUM CHAUDHARY (4TH EC)**

## TRAINING & PLACEMENT



**Electrodrive**



प्लाज्मा अनुसंधान संस्थान  
Institute for **Plasma Research**

**@yantra**

**TEKSUN**  
CULTIVATING TECHNOLOGY



Reve Automation LLP.



**ONGC**



भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA



**BLAZING  
ARROWS**

## COURSE STRUCTURE

Duration: 4 Years    College Fees: 61000/-    Scholarship: 11000/-

### SEM 1

1. Communication Skills
2. CPU
3. Elements of Elect. Engg.
4. Elements of Mech. Engg.
5. Calculus
6. Electrical and Electronics Workshop

### SEM 3

1. Adv. Engg. Mathematics
2. Engg. Eco. & Mngt.
3. Circuits and Networks
4. Digital Electronics
5. Electrical Machines
6. Electro. Devices & Ckts.

### SEM 5

1. Cyber Security
2. MCU & Interfacing
3. Engg. Electromagnetics
4. Electronic & Comm.
5. Audio Video Systems
6. Mini Project

### SEM 7

1. Microwave Engineering
2. Digital Signal Processing
3. Wireless Communication
4. Embedded Systems
5. Data Comm. & Networking
6. Satellite Communication

### SEM 2

1. Basic Electronics
2. Vector Calculus
3. Engg. Graphics
4. Environment Studies
5. Contributor Personality Development
6. Physics

### SEM 4

1. MPU & Interfacing
2. Analog Circuit Design
3. Electronics Measurement and Instrumentation
4. Control System Engineering
5. Signals and Systems
6. Simulation & Design Tools

### SEM 6

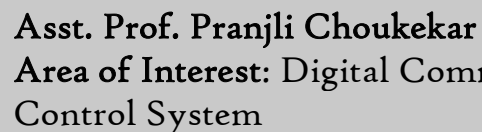
1. VLSI
2. Digital Communication
3. Optical Communication
4. TSSN
5. Antenna & Wave Propa.

### SEM 8

1. RADAR
2. Project
3. Image Processing



## NEWS @ GLANCE



શ્રી સ્વામીનારાયણે ઈસ્ટીકટ્ટ, ભાટ ખાતે આઈઈઈ, મુંબઈના સહયોગથી ઈ-યંત્ર રોબોટિક લેખ બનાવવામાં આવી છે. આ વેબપૃષ્ઠ ઉપરના અનેક આઈઆઈઈઈ, મુંબઈ અને કોલેજના ડિરેક્ટર ધર્મચંદ્ર દાસરા દીપ પ્રગટયોથી કિર્તિમાં આવેલ છે. ઈ-યંત્ર લેખમાં આઈઆઈઈઈ, મુંબઈએ લેટેસ્ટ કોલોલોજના રોબોટ આપ્યા છે, જેનાથી ક્યવાનીઓ વિવિધ પ્રોજેક્ટ ઈ-કોમ્પોઝિશન તેમજ પ્રેક્ટિસ ક્લારસ ઈ-પ્રગટિના વિવિધ નામ-પ્રેમી જીવંત પ્રોલેલેસ સોલ્ક કડી કાઢે. આઈઆઈઈઈ, ભાટના આ પ્રયત્નથી ગોપીનરના વિદ્યાર્થીઓ પણ હવે રોબોટિક તેમજ ઈજનજિવ કારકડીના વિવિધ શરો.



## INDUSTRIAL VISITS



**BISAG**



**ADANI (MUNDRA) PORT**



**SWITCH EXPO**

## LAB FACILITIES



**EMBEDDED SYSTEMS LAB**

This Lab has various system development board cum trainer to understand diff. Microprocessor & Microcontrollers. It has advanced trainer kit for various processors to study assembly programming as well as interfacing of these processors with various peripherals.

### ROBOTICS LAB

This Lab is sponsored by E-yantra initiative of IIT, Bombay. Two types of fully sensor equipped robot, Firebird V and Spark V are for student practice. Students need not spend time for hardware, instead they can improve their programming skill.



### VLSI/ AVS LAB



This lab is equipped with various audio video and Xilinx FPGA and CPLD Kit. By operating Audio video equipment student can have deep knowledge of electronic circuit that is used in audio devices. They can also be getting through LED and LCD type of display that is widely used in day to day life. By performing practical on Xilinx FPGA and CPLD kits, student can know how integrated circuit can be design and how things are being small now.

## LAB FACILITIES

### ANALOG COMMUNICATION LAB



This lab is equipped with all major training kits required to study the concepts of Analog Communication Methods (like Amplitude, Frequency and Phase Modulation and Demodulation). They can also understand how to operate signal generators and oscilloscopes, on which output can be analyzed. They can connect their circuit to equipment so that they can

also check their project output.

### SIMULATION LAB

In this Lab students get to work on some of the much efficient software like MultiSim, MATLAB, Keil, Arduino. By using MATLAB Students prepare simulated various blocks of communication also image can be processed by special toolbox of MATLAB. By using MultiSim students can design and analyze output of electronic circuit without actual interface of electronic component. They can also design PCB with this software.



### ANALOG/DIGITAL LAB

In this Lab students can get through knowledge of various Logic gates like AND, OR, NOT etc. They can design various logical circuit by connecting various gates by means of cables. They can physically check the output through LED so that they can understand behavior of logic

gates. They also understand the basic memory element of memory, flipflop in this laboratory.



## WORKSHOP @ SSIT



### IOT USING RASPBERRY PI



### TWO-DAY HANDS ON ARDUINO



### MSP 430 MICROCONTROLLER