



## **GREEN CAMPUS** **(43 KW Solar Power Plant)**



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

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## **SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY**



**DEPARTMENT OF ELECTRICAL  
ENGINEERING**



### ABOUT TRUST

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

### 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

Shree Swaminarayan Institute of Technology, as a part of one of the best engineering colleges in Ahmedabad and Gandhinagar had an envision of a department (faculties and students) which is helping to express, make an impact on, and lead in the field of Electrical Engineering through its Education.

The Department organizes guest lectures, short term training program, workshop and seminar on various specialized field. This is an opportunity to meet eminent speaker and exchange ideas.

## TOPPERS & EXCELLENCE

### TOPPERS IN 2018



Disha Gajjar  
SPI: 9.28  
7<sup>th</sup> Semester



Dhruvil Thakkar  
SPI: 9.10  
7<sup>th</sup> Semester



Mihir Dodiya  
SPI: 9.66  
7<sup>th</sup> Semester  
GTU RANKER



Shaikh Noormaham  
SPI: 8.3  
5<sup>th</sup> Semester



Annirudh Varma  
SPI: 8.83  
3<sup>rd</sup> Semester

### EXCELLENCE IN 2018



Parekh Shubhan  
Semester: 6<sup>th</sup>



Patel Karan  
Semester: 6<sup>th</sup>

2<sup>nd</sup> Runner up in Dream Machine Workshop  
(GTU TECHFAST)



Joshi Jay  
Semester: 6<sup>th</sup>  
Excellent Photographer



Thaker Chandrak  
Semester: 8<sup>th</sup>  
Excellent Photographer



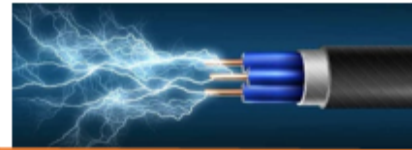
# TRAINING & PLACEMENT



## GTU Course Structure

### B.E.

## Electrical Engineering



### Semester I

- Communication Skill
- Computer Programming and Utilization
- Elements of Electrical Engineering
- Elements of Mechanical Engineering
- Calculus
- Electrical and Electronics Workshop

### Semester II

- Environmental Studies
- Physics
- Engineering Graphics
- Vector Calculus and Linear Algebra
- Basic Electronics
- Contributor Personality Development

### Semester III

- Advance Engineering Mathematics
- Engineering Economics and Management
- Design Engineering – I A
- Circuits and Networks
- Analog Electronics
- Electrical Measurement and Measuring Institute
- DC Machine and Transformer

### Semester IV

- Design Engineering – I B
- AC Machine
- Applied Thermal & Hydraulic Engineering
- Electrical Power Generation
- Field Theory
- Digital Electronics
- Signal and System

### Semester V

- Design Engineering – II A
- Cyber Security
- Power Electronics-I
- Elements of Electrical Design
- Microprocessor
- Electrical Power System-I
- Control System Engineering

### Semester VI

- Design Engineering – II B
- Power Electronics-II
- High Voltage Engineering
- Utilization of Electrical Energy and Traction
- Electrical Drives
- Design of DC Machine and Transformer

### Semester VII

- Project I
- Interconnected Power System
- Industrial Instrumentation
- Switch Gear and Protection
- Design of AC Machine

### Semester VIII

- Project II
- Testing and Commissioning of Electrical Engineering
- Power System Planning and Design
- Power Quality Management





# STAFF DETAIL



**Prof. Suvas Vora**  
Head of Department  
Area of Interests: Electrical Power System, Electrical Protection, Field Theory, Electrical Machine, Power Quality Management

**Prof. Kshipra Pandey**

Area of Interests:  
High Voltage Engineering, Power System Planning and Design



**Prof. Varun Patel**  
Area of Interests:  
Power Electronics, Electrical Drives, Electrical Power Generation

**Prof. Nishit Chotaliya**

Area of Interests:  
Electrical Machine and Electrical Machine Design, Circuit and Network



**Prof. Dipak Bhatt**  
Area of Interests:  
Power System, Power Quality Management, Electrical Machine

**Prof. Disha Bhatt**

Area of Interests:  
Electrical Measuring Instrument, Utilization of Electrical Traction system



**Prof. Ripan Patel**  
Area of Interests:  
Power Electronics, Signal and System, Control System Engineering

# NEWS @ GLANCE

## શ્રી સ્વામિનારાયણ ઇન્સ્ટિટ્યુટ ઓફ ટેકનોલોજીમાં માતૃ-પિતૃ વંદના દિવસ



## શ્રી સ્વામિનારાયણ ઇન્સ્ટિટ્યુટ ઓફ ટેકનોલોજી ખાતે કમ્પ્યુટર વિષયે તાલીમ કાર્યક્રમ યોજવામાં આવ્યો

ગાંધીનગર, તા. ૩  
શ્રી સ્વામિનારાયણ ઇન્સ્ટિટ્યુટ ઓફ ટેકનોલોજી, ખાતે આઈ.આઈ.ટી. અને કમ્પ્યુટરના સંયુક્ત ઉપક્રમે આઈ.આઈ.ટી. ક્લાઉડ કમ્પ્યુટિંગ અને બીજા ડેટા વિષય પર એક દિવસીય સંવાદન સંમેલન યોજાયાં જેના આયોજન કરવામાં આવ્યું હતું. જેના કમ્પ્યુટર ઇજનેરી શાખાના કાર્યક્રમ વર્ષના વિદ્યાર્થીઓએ ભાગ લીધો હતો. કમ્પ્યુટર એન્જિનીયરિંગના મોડેસર અને હેડ ઓફ ડિપાર્ટમેન્ટ ડો. વિજયકુમાર ગઢવીએ જણાવ્યું કે આવનાર સમયમાં આઈ.આઈ.ટી. ઇન્ડસ્ટ્રીઝ ઓફ ટેકનોલોજી, બીજા ડેટા, ક્લાઉડ કમ્પ્યુટિંગમાં ખૂબ જ તક રહેલી છે. જે બાબતે આ તાલીમ કાર્યક્રમ પ્રોગ્રામ ખૂબ જ મહત્વનો સાબિત તરીકે અને આ વિષયના નિષ્ણાતોની આવનારા સમયમાં ખૂબ જ મોળ વધવાની શક્યતાઓ રહેલી છે.

## કોલેજમાં વિવેકાનંદ જયંતી ઉજવાઈ



અમદાવાદ : સ્વામિનારાયણ પોલિટેકનિક કોલેજ, ભાટ દ્વારા સ્વામી વિવેકાનંદના જન્મદિવસે યુવા દિવસની ઉજવણી કરવામાં આવી હતી. યુવાનોને સ્વચ્છ તથા ગ્રીન ભારત વિષય પર વક્તવ્ય આપવામાં આવ્યું હતું. આ દિવસે યુવાનોએ રાષ્ટ્રને ગ્રીન બનાવવા માટે શપથ લીધા હતાં અને સ્વચ્છતા માટે પણ શપથ લીધા હતા.

## સ્વામિનારાયણ ઇન્સ્ટિટ્યુટ દ્વારા ઇન્સ્ટ્રી સ્કીલ ડેવલપમેન્ટ વર્કશોપ



## જીટીયુના ઓપન સોસ ટેકનોલોજી કલબના સેન્ટરનો ગાંધીનગરની કોલેજમાં પ્રારંભ







**KEVADIYA COLONY POWER PLANT ADANI POWER**



**SWITCH EXPO**

**CHARANKA SOLAR  
POWER PLANT**

## STUDENTS ACTIVITIES

Industrial Visit | Exhibition

## WORKSHOP/ SEMINARS



One Day Seminar on  
“Importance of Power Generation Technology”  
conducted by L&T Power Training Institute



One day Workshop on  
“Experimental Training in Solar Energy  
System”, Conducted by RealTek Automation



Two Days Workshop on  
“Panel Designing with Industrial  
Training” conducted by  
Illumination Power & SN Technologies

## LAB FACILITIES

ELECTRICAL ENGINEERING  
DEPARTMENT



### AC Machine

In this laboratory the faculties study about the main component of the DC Machine and how the components working



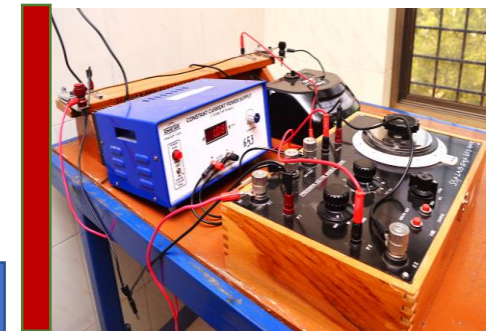
### DC Machine

This Lab is equipped with Industrials base Training Kit for study about real Field Machine Kits.



### Analog Electronics

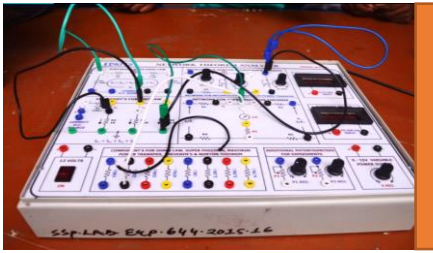
This Lab is equipped with all Training Kits required to study about the Communication of Analog Signals.



### Electrical Measurement

In this Laboratory study about the different types of Electrical Laws and Calibration of Instruments.





### Circuit & Network

This Laboratory is equipped with Different theorem (Kirchoff's law, Thevenin Theorem,) to study For how to apply in real field equipment.

### Simulation & Modeling

In this Lab students get to work on some of efficient software like Lab VIEW, MATLAB, PSIM using these software and get results to analyze of various electrical systems.



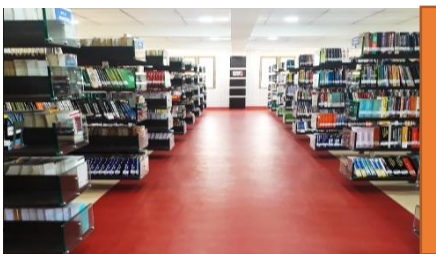
### High Voltage

In this Lab student get to work on High voltage testing equipment. Laboratory is also having facility of testing various insulating materials as per Indian standards.



### Power Electronics

The lab conducted includes learning of different gate/triggering circuits, single phase rectifier, switched mode dc-dc converter, Chopper circuit etc. Also in this lab student get to work on some of software to run the electronics circuit.



### Digital Library

Library and Information Centre is the heart of the school and aims to provide an ideal ambience for both creation & dissemination of knowledge, information, all its academic programs.

## STUDENT PROJECT



Earth Leakage Monitoring System in Substation



Green Building Using Footstep Power Generation



Industrial Base Speed Control of Induction Motor



Road Side Power Generation Using Pizo Electric Material

