



न हि ज्ञानेन मरणं पवित्रमिह विद्यते ।

**Smt. S. R. PATEL**  
**ENGINEERING COLLEGE**

# Information Booklet



## Saraswati Vandana



// Saraswati is the goddess of arts, music, knowledge and wisdom.  
Goddess Saraswati is said to possess the powers of speech, wisdom and learning.  
Saraswati is regarded as the dispeller of chaos and confusion. //

या कृष्णेज्जु तृषारहार धवला या शुभ्र वस्त्रावृता ।  
या वीणा वर वंण्ड मण्डितकरा या श्वेत पद्ममालना ॥  
या ब्रह्माच्च्युत शंडकर प्रभृतिभिः वैदेः सखा वन्दिता ।  
सा मां पातु सरस्वती भगवती निःशेष जाड्यपहा ॥

असत्यो मांहेथी प्रभु ! परम सत्ये तुं लई जा,  
ठोडा अंधारेथी प्रभु ! परम तेजे तुं लई जा,  
महामृत्युमांथी अमृत समीपे नाथ ! लई जा,  
तुं - हीणो हुं छुं तो तुज दर्शननां दान दई जा.

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## About the Institute

Smt. S. R. Patel Engineering College was established in the year 2009 at Dabhi – Unjha, about 28 Km. away from Mehsana. The institute is promoted by Smt. Sushilaben Rameshbhai Patel Charitable Trust and supported by Ajay Engi-Infrastructure Pvt. Ltd., Mehsana. The institute is spread over a lush green campus in twelve acre area having a beautiful landscaping, gardens and peaceful environment, which provides a close proximity to the nature.

The Institute is approved by AICTE, New Delhi and affiliated to GTU, Ahmedabad. Institute offers B.E. & M.E. courses in various engineering disciplines. The college implements various programs which are designed to enable learning in an application based environment. These comprise a combination of co-curricular activities like technical workshops, expert lectures and hands on experience in well-equipped laboratories. Each department has advanced laboratories, equipments and software. They arrange a number of Industrial visits and field training free of cost. Students take up different projects during their final year course. All the curricular and co-curricular events are sponsored by the institute.

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## Vision & Mission

We dedicate and commit ourselves to achieve, sustain and foster unmatched excellence in Technical Education. To this end, we will pursue continuous development of infrastructure and enhance state-of-the-art equipment to provide our students a technologically up-to-date and intellectually inspiring environment of learning, research, creativity, innovation and professional expertise along with inculcating in them ethical and moral values.

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## Quality Policy

We at Smt. S.R. Patel Engineering College are committed to build a better nation through Quality Education with team spirit. Our students are enabled to excel in all values of life and become good citizens. We continuously improve the system, infrastructure and services to satisfy the students, parents, industry and finally the society.



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### *From Chairman's Desk*



We feel immense pleasure to introduce to you the Smt. Sushilaben Rameshbhai Patel Charitable Trust's Smt. S. R. Patel Engineering College (SRPEC). This is the first and foremost integrated technological institutional campus, set up by the trust at Dabhi-Unjha, in the north region of Gujarat state.

We have a clear vision to take the Institutions to new heights at Global level with world class education, technology and resources. In an age characterized by creativity, innovation and leadership, the managerial challenges are unique. Our programs are designed with emphasis to transform the students into tomorrow's best professionals.

The focus of our education is to lay stress on leadership training. We are committed to provide technocrats, leaders and computer professionals who are ready to face the challenges in a complex global environment and remain dedicated to serve the companies, society and humanity. Our vision of education is based on innovative learning methodologies including constant improvement, cultivation of practical skills and an unwavering commitment to academic quality.

We clearly believe that convergence of thoughts leads to revolution and convergence of thoughtful action culminates into the evolution. In short, we want to make learning a focused, fruitful and enjoyable experience for students.

"When technology and morals walk together, we can find the improvement in the quality of life."

Shri Rameshbhai H. Patel

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### *From Principal's Desk*



It gives me immense pleasure to pen down a few words for college information brochure. The purpose of this brochure is to give a glimpse of resourceful infrastructural facilities. We have awards and scholarship offered by the institute and activities carried out in the college.

We, at Smt. S. R. Patel Engineering College, focus on discipline and regularity with encouraging environment to provide quality education in frontier areas of engineering and technology. We, the faculty, staff and administration at SRPEC work for producing technologically superior and ethically strong engineers for the country and the world with a purpose to serve the society & mankind. Our dream is to make this institute an institution of national repute. I wish the efforts made by the institution in shaping the future of the students will bear bright result. The Institute is constantly making endeavors to scale new heights by developing synergy between academic knowledge, technical skill as per industry needs, high moral values and accountability to the environment and the nation.

SRPEC has provided a perfect environment for developing the overall personality of the students. We are confident that these youth of our college would be an asset to various organization with their technical and managerial capabilities and their talent for innovation.

Dr. A. H. Shah  
M.Tech.-IIT Bombay  
Ph.D.-IIT Roorkee





### Bachelors in Engineering

The institute offers Bachelors in Engineering, a four year full-time program, approved by AICTE, New Delhi and affiliated to Gujarat Technological University, Ahmedabad. The institute caters to branches like Mechanical Engineering, Civil Engineering, Electronics and Communication Engineering and Computer Engineering.

#### Intake

The institute has following seats for the respective branches:

Sr. No.	Branch	Seats
1	Mechanical Engineering	120
2	Civil Engineering	60
3	Electronics and Communication Engineering	60
4	Computer Engineering	60

The fee charged from the student is as set by the Gujarat Technological University (GTU) and other Government Bodies. Apart from this **no fee is charged** by the institute for the various activities round the semesters like industrial visits, field training, workshops, software training, etc.

### Masters in Engineering

The institute offers Masters in Engineering program, a two year full time program approved by AICTE, New Delhi and affiliated to Gujarat Technological University, Ahmedabad. The branches offered are Mechanical Engineering (Thermal Engineering) and Computer Engineering.

#### Intake

The institute has following seats for the respective branches:

Sr. No.	Branch	Seats
1	Mechanical Engineering	24
2	Computer Engineering	24

#### Fee Relaxation

To encourage meritorious students for admission at SRPEC, college management offers **100 % to 30 % Fee Relaxation** for all **four years** based on their ACPC merit numbers.

## Introduction

The institute offers undergraduate & postgraduate programs in Mechanical Engineering. It has state of the art laboratories. Central workshop is spread over 1134 sqm. area housing carpentry shop, fitting shop, black-smithy and tin-smithy, plumbing shop, machine shop and foundry shop. The Mechanical Engineers are required in automobile industries, steel plants, oil exploration and refining industries, technical wings of armed forces, aeronautical, agricultural industries etc. They get absorbed in private or public sector industries of various types. Several government departments like SAIL, ONGC, Defense, PWD, CPWD, Reliance, L & T, Siemens etc. employ mechanical engineers.

## Laboratories

Sr.	Laboratories	Cost ( ₹ )
1	Elements of Mechanical Engineering	93,432/-
2	Workshop	2,66,141/-
3	Material Science and Metallurgy	1,68,889/-
4	Manufacturing Process-1 and 2	9,59,466/-
5	Fluid Mechanics	2,52,379/-
6	Mechanical Measurement and Metrology	1,22,480/-
7	Conventional Power Engineering	5,339/-
8	Theory of Machine	60,196/-
9	Fluid Power Engineering	6,31,260/-
10	Dynamic of Machines	1,49,968/-
11	Computational Fluid Dynamics	3,95,000/-
12	Heat and Mass Transfer	4,41,501/-
13	I.C. Engine and Automobile	8,03,588/-
14	Computer Integrated Manufacturing	1,45,000/-
15	Refrigeration and Air Conditioning	4,77,162/-
16	Computer Aided Design	5,10,000/-
<b>Total</b>		<b>54,81,801/-</b>



## Equipments

- Basic models of IC engines, clutches, gears
- Carpentry tools, Smithy tools, Fitting Tools, Furnace, Microscope
- Lathes, Shaper, Milling Machine, Drilling Machine, Grinding Machine
- Welding Torch, Gas Cylinder
- Reynold's Apparatus, Pipe Friction, Metacentric Height
- Slip Gauges, Vernier Caliper, Micrometer
- Models of Turbines, Pelton Wheel, Francis Turbine, Kaplan Turbine
- Model of Governors, Gyroscope, Static & dynamic balancing, Whirling of shafts
- Heat Exchanger, Conduction, Convection and Radiation related setups
- Hydraulic Flume, Wind Tunnel
- Disassembled components of Maruti, Chasis of Different Models
- CNC milling machine
- VCR test rig, VARS test rig, Heat pump traine

## Softwares

- Pro-E Software (50 Terminals), Creo Parametric 1.0, Autocad 2010



## Introduction

The Civil Engineering Department offers 4 years UG Programme in Civil engineering. It provides wide spectrum of construction and planning, structural design, water resources, surveying, architect and environmental studies. In surveying lab, Total Station is available in the college for ready hands on experience to ours students. The career opportunities available to a Civil Engineer are Surveyor and valuator in Govt. and private sectors, architectural engineering, interior designing, as Project engineer/manager, R&D, Town planner in Govt. Sectors etc.

## Laboratories

Sr.	Laboratories	Cost ( ₹ )
1	Elements of Civil Engineering/Surveying	1,46,151/-
2	Mechanics of Solids	8,33,277/-
3	Concrete Technology	29,075/-
4	Engineering Geology	32,412/-
5	Advanced Surveying	6,25,000/-
6	Highway Engineering	4,67,850/-
7	Environmental Engineering, Water and Waste Water Engineering	3,26,500/-
8	Geotech Engineering – I & II	1,87,973/-
9	Applied Fluid Mechanics	5,74,997/-
10	Earthquake Engineering	4,66,000/-
<b>Total</b>		<b>36,89,235/-</b>



## Equipments

- Total Station, Theodolite, Auto Level, Dumpy Level, Compass, Planimeter, Impact Test, Ductile Test Machine
- Universal Testing Machine, Rockwell & Brinel Hardness, Izod Impact
- Simply Supported Beam, Universal Force Table, Single Winch Crab
- Compressive Testing Machine, Vicat Apparatus, Slump Cone Mixture Machine
- Compression Factor Testing Machine, Vibrating Table
- Set of 70 rocks, Set of 70 minerals, Charts of Interior of the earth, Formation of rocks
- Deformation of earth, and Earthquakes
- Los angles, Sieves, Impact tests, Ductile apparatus, Bituminous, Bitumen
- BOD Incubator, COD Digester, Spectrophotometer, Digital Conductivity Meter
- Digital Turbidity Meter, Digital PH Meter, Digital Weigh Balance
- Unconfined Compression Tester, Relative Density Apparatus
- Consolidation Apparatus, Direct Shear, Swell Test Apparatus
- Dynamic Cone Penetrometer, Permeability Apparatus
- Reynold's Apparatus, Pipe Friction, Met centric height, Hydraulic Flume
- Wind Tunnel, Earthquake shake table with models

## Softwares

- Autodesk Auto CAD 2013, Autodesk Revit 2013, SAP 2000, ETAB



## Introduction

The E&C Engineering Department offers 4 years UG Programme in Electronics and Communication engineering. The well-equipped basic electrical engineering laboratory gives an insight of fundamental of electrical engineering to the students of all branches of engineering. Electronics engineers get employed in the public and private sectors such as the Indian Telephone Industries, MTNL, NPL, AIR, Civil aviation, and the police wireless departments. They also get absorbed into the entertainment transmission industry, research establishments and defense.

## Laboratories

Sr.	Laboratories	Cost ( ₹ )
1	Elements of Electrical Engineering	1,84,085/-
2	Basic Electronics	2,70,360/-
3	Circuit and Network	12,285/-
4	Digital Logic Design	17,640/-
5	Electronics Workshop	21,602/-
6	Control Theory	56,109/-
7	Microprocessor & interfacing	28,964/-
8	Communication Engineering	2,77,716/-
9	Advance Electronics	25,389/-
10	Integrated Circuit and Application	43,700/-
11	Applied Electronics	26,910/-
12	Microcontroller & Interfacing	1,56,975/-
13	Electronics Communication	95,582/-
14	Electronics Measurement and Instrumentation	1,63,275/-
15	VLSI	1,18,125/-
16	Digital Communication	1,02,718/-
17	Antenna and Wave Propagation	89,250/-
18	Audio and Video	86,509/-
19	Optical Communication	93,804/-
20	Microwave Engineering	92,400/-
21	Embedded	93,555/-
22	Power Electronics	35,579/-
23	Wireless Communication	7,418/-
<b>Total</b>		<b>20,99,950/-</b>



## Equipments

DC Motor – Gene. Set, Diode & BJT Characteristics, Kirchof's Voltage & Current law Trainer Kit, Basic Logic Trainer Kit, Flip Flop Trainer Kit, Ripple Counter Trainer Kit, Binary Parallel Adder Kit, Solder Iron, Multimeter, Brad Board, Open Loop Control System, Basic Feedback Control System, 8085 Microprocessor Trainer, AM Transmitter Trainer, RC coupled amplifier Amplitude, Modulation & Demodulation Trainer, OP-Amp. Trainer Kit, SCR Triggering Circuits, UJT Relaxation Oscillator, LCD Matrix Key Board Inmterfacing Kit, 8-Bit DAC Interfacing Kit, TK Base Universal VLSI Trainer Board, CPLD Daughter Board with JTAG Connector, TDM Pulse Amplitude Modulation & Demodulation Trainer, Stepper Motor Controller, Antenna Trainer Kit, Analog Voice Link Trainer, Analog Link Trainer, Digital Link Trainer, Microwave Bench, Discrete Compont Trainer, GSM Mobile Telephone Communication Trainer

## Softwares

Multisim, Proteus, Keil, Flash Magic, Xilinx, WPL Soft, Matlab, Packet Tracer



## Introduction

The Computer Engineering Department offers 4 years UG and 2 years PG Programme in Computer engineering. Graduates of the Computer Engineering program can make their careers in the field of Information and Communication Technology, Electronics Industry, Academics and R&D. The institute has a computer centre with 300 computers with latest software and internet connectivity.



## Equipments and Softwares

- Study Skill Success (SSS)
- SQL Server 2005/ Oracle
- Linux OS like Ubuntu / Fedora 15
- MATLAB / 8085 Simulator
- Visual Studio Express / Netbeans
- Computer Sets (Intel i3 based)
- IBM Server 2 (Windows 2008 Server)
- Cyberoam

## Laboratories

Sr.	Laboratories	Cost ( ₹ )
1	Language LAB (Communication Skills)	8,95,000/-
2	Database LAB	6,20,400/-
3	Operating System LAB (Linux)	5,70,400/-
4	Image Processing and Processor LAB	4,90,000/-
5	Web Development LAB	5,70,400/-
6	Advance Java Technology	5,61,600/-
7	Compiler Design	5,61,600/-
8	Computer & other peripherals	8,37,000/-
<b>Total</b>		<b>51,06,400/-</b>



The Institute has two Academic Buildings and a separate administrative building. In its two academic buildings, "Jiviba Vidyabhavan" and "Amthaba Vidyabhavan", all the academic activities are carried out. The whole administration of the institute is governed in "Administrative Building" which also includes Placement Cell, GTU Cell, Library and Auditorium Hall.

## Classrooms

All the classrooms are spacious, well illuminated with natural light and properly ventilated to make environment more refreshing. They are also equipped with modern amenities like projectors, speakers etc.



## Seminar Hall

The institute encompasses two seminar halls, which are designed in a way to accelerate the teaching learning process using modern technological aids. It is normally used to give the presentations, seminars, etc. The halls are fully air conditioned.



## Wi-Fi Enabled Campus

The Wi-Fi internet facility allows students & faculties to share, download and access information on campus. The institute has a 2 Mbps lease line for Wi-fi, and 10 BSNL internet lines of 512 Kbps each. The internet access is available through "Cyberoom".



## Auditorium

"Hirabhai Amtharam Auditorium" is fully media equipped with LCD Projector and HD Sound System. It has a capacity of 300 viewer seats and 25 stage seats. The hall is fully air conditioned.



## Library

It is well furnished, centrally air-conditioned and spread over 536 sq.m. At present, the library is having more than 7787 books and current subscription of 60 National/ International journals. Library has a rich e-resource of 800 e-journals, 202 e-books and 220 NPTEL DVDs on 100 different subjects. The facilities of Computerized Book Search, Photocopying, Newspaper Reading, Video (CD/DVD) Viewing, Digital Resources including E-books, and Past Examination Papers are available.

### Canteen

The college canteen is well equipped with modern steam cooking and utensils. Large Canteen hall with a facility for 100 members to dine at a time enables all students and staff to have their breakfast and lunch. A separate dining hall for hostellers with television is also provided in the canteen.



### Hostel

The institute has spacious and well furnished hostel with required basic facilities including kit for indoor and outdoor games. Total 66 students can be accommodated in the hostel.

### Transportation

Transportation facility from Unjha and nearby places to College campus can be made available to students. College also provides free transport facilities during various occasions like industrial visits, technical events, participation in sports or cultural competitions etc.



### Students' Store

A self-sufficient students' store is provided by the institute where apart from all sorts of stationary goods, books, EG- Drawing sheets, Lab-Manuals, calculator etc. are available at genuine price. It also houses photocopying and desk top printing facilities.

### RO Water System

Considering hygiene as a main point of consideration, institute has instilled a RO Plant providing the students, faculties and other staff with the purified water.



### Academic Excellence Awards

Each academic year awards are given to students who stand first, second and third in the GTU exams. Awards are given to position holders in each branch in **every semester**. Overall position of the institute holders are also awarded from each branch. In order to motivate and appreciate their efforts in academics the college expends every year around ₹ **3.5 lakh** award money.

### Best Student Awards

Apart from the academic award best student award of ₹ **11000** is also given to students **each year**. The criterion for the award is based on the performance of student in studies, extra curriculum activities, regularity, punctuality, and participation in workshop, social and cultural events. Based on the evaluation provided by the HOD the best student is selected and awarded.

### Student Scholarships

Similar to the Tuition Fee Waiver (TFW) given by GTU the college also provide scholarship to needy and deserving students. Applications are invited in **each semester** by considering the following criteria: Financial background, Exam results and Academic Performance and active participation in college events. A committee is formed to physically visit the applicant's family. Based on the review of the committee scholarship is sanctioned to the deserving students. For equal learning and growth opportunity to needy and bright students Institute offers total scholarship amount of ₹ **7 Lakh** approximately **every semester**.



Institute Code : 078

### Smt. S. R. Patel Engineering College

(Approved by AICTE & Affiliated to GTU)

At. & Po.- Dabhi, Ta.- Uriga, Dist.- Morbi (N.G.), Pin Code : 388 170

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Website : <http://www.srppec.org.in>

E-mail : [info@srpec.org.in](mailto:info@srpec.org.in)

#### MERIT PRIZES for First Sem. Students on the basis of First Sem. University Exam result:

##### A. For Rankers of the Institute:

First Rank	: Rs.20000/-
Second Rank	: Rs.15000/-
Third Rank	: Rs.11000/-

##### B. For Rankers of Each Branch of the Institute:

First Rank	: Rs.5000/-
Second Rank	: Rs.3000/-
Third Rank	: Rs.2000/-

- C. In addition, each student appearing in to the Ten Rankers list of the G.T.U. shall be awarded a prize of Rs. 15000/- each.
- D. The best student of the institute for years shall be awarded a prize of Rs. 11,000/-.
- E. If there is more than one student holding same rank, under point A or B, then the corresponding prize amount will be given to each of them separately.

All above awards shall be given based on certificate of merit to be issued by Principal and/ or Chairman.

  
Chairman



Dr. Akshai Aggarwal V.C., GTU, Ahmedabad awarding the meritorious student



### Field Training Award

Students go for field training twice, once between 5<sup>th</sup> and 6<sup>th</sup> semester and next between 6<sup>th</sup> and 7<sup>th</sup> semesters. Students take up various projects during field training which are supervised by internal and external guide, and evaluation sheet is provided for each student. Depending upon the evaluation of the guide regarding the students' performance, awards are given to first three scorers (First ₹ 5000/-, Second ₹ 3000/-, Third ₹ 2000/-) in **each department each semester.**

### Technical Symposium - Prakrusht Awards

During the National Technical Symposium Prakrusht the participants in the various events are awarded on securing positions in the event. Total Prize amount of **₹ 3.25 lakh** provided **every year.**

### Conference - NCIET Awards

The best papers presented during National Conference on Innovative and Emerging Technologies "NCIET" are awarded. These awards are given in each track under both students and professional categories. An overall best paper is awarded with prize amount of ₹ 10,000/- The total amount awarded during NCIET is more than **₹ 1.5 lakh every year.**

### Pratibha Awards

The institute dedicates one week to unleash the talent residing amongst the students where students can showcase their artistic talent in different arena of art and literature. To appreciate their effort and to motivate them for further creativity Institute gives awards.

### Seminar Awards

Students' seminar are arranged in order to make them study at their own where they can also develop their presentation skills and can get confidence to present themselves on the stage. To motivate the students for this activity Institute has initiated Seminar Competition from 3<sup>rd</sup> to 6<sup>th</sup> semester where students can showcase their presentation skills. Students are given prize money of ₹ 3000, 2000 and 1000 for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> rank respectively from **each semester.**

### Innovative Project Funds

The students of Final Year undertake Industry defined or User defined projects as a part of their curriculum. The project proposals are invited who want financial assistance and based on innovative concept and current need of technology, the Institute decides financial assistance. Some of the important projects in different branches which were funded by the institute are:

Sr. No.	Project Name	Amount ( ₹ )
1	Experimental & Analytical Evaluation of Base-Isolated Water Tank Structure	33,040/-
2	Experimental & Analytical Evaluation of Base-Isolated Building Structure	
3	An improvement and development of mokshadam green cremation system	1,20,000/-
4	Cleaning of Solar Plate by Automation	10,350/-
5	Design and Development of Vertical Axis Wind Turbine	10,000/-
6	Design and Development of Air Caster	15,000/-
7	CNC Milling Machine	1,56,700/-
8	Earthquake Shake Table with Models	4,46,000/-

### Training Programs- Free of Cost

In this age of fine competition, students are expected to build an all-round personality who is not only good with the academic curriculum but also can prove himself/herself work-efficient by projecting the crucial aspects of working in the industry. Considering this, the institute organizes various activities for the students for all the semesters bearing in mind the mental aptitude to grasp and comprehend and also the use of these activities in their academic program. All these activities are made free of cost for the students by the Institute.

#### Semester I

Activity	No. of times in a Semester
Motivational Training	Twice
Career Development Course (CDC)	Throughout Semester

#### Semester II

Activity	No. of times in a Semester
Motivational Lecture	Twice
Personal Counselling	Once
Resume Preparation	Once
Career Development Course	Through out semester
How to Communicate	Once

#### Semester III

Activity	No. of times in a Semester
Motivational Lecture	Once
Students' Seminar	Through out semester
Software Training	Through out semester
Technical Workshop	Once
Career Development Course	Through out semester
Industrial Visits	Minimum once

#### Semester IV

Activity	No. of times in a Semester
Motivational Lecture	Once
Software Training	Through out semester
Students' Seminar	Through out semester
Industrial Visits	Minimum once
Career Development Course	Through out semester
Technical Workshop	Once

#### Semester V

Activity	No. of times in a Semester
Motivational Lecture	Once
Technical Workshop	Once
Preparation for GATE Examination	Through out semester
Industrial Visits	Minimum once
Students' Seminar	Through out semester
Software Training	Through out semester
Field Training	Once
Preparation For Competitive Exam (GPSC, UGC etc.)	Through out semester
Industry Expert's Talk	Twice

Note: \* Indicates activities conducted in reference to Training and Placement. The detailed description of the same is mentioned in Training and Placement Section.

#### Semester VI

Activity	No. of times in a Semester
Motivational Lecture	Once
Students' Seminar	Through out semester
Field Training	Once
Industrial Visits	Minimum once
Technical Workshop	Once
Software Training	Through out semester
Preparation For GATE Examination	Through out semester
Preparation For Competitive Exam (GPSC, UGC etc.)	Through out semester
Industry Expert's Talk	Twice

#### Semester VII

Activity	No. of times in a Semester
Industrial Visits	Minimum once
Industry Expert's Talk	Twice
Preparation For GATE Examinations	Through out semester
Preparation For Competitive Exam (GPSC, UGC etc.)	Through out semester
Innovative Projects*	Through out semester
Professional Resume Making*	Once (every week)
Session on Vocabulary & Grammar*	
Technical Sessions*	
Entrepreneurship Development Program*	
Team Work, Group Dynamics & Improve Communication Skills*	
Verbal Ability Test*	
Psychometric Test (Online)*	
Startup Success Stories*	
Career Counselling*	
Online Aptitude Test*	

#### Semester VIII

Activity	No. of times in a Semester
Industrial Visits	Minimum once
Preparation For GATE Examinations	Initial of the Semester
Industry Expert's Talk	Twice
Innovative Projects	Through out semester
Improving Aptitude Quotient*	Through out semester
A Guide to Interview Questions*	Through out semester
Career Choice Form*	Once (every week)
One day with HR*	
Technical Sessions*	
HR Sessions*	
Group Discussions*	
Grooming & Etiquette*	
Profile Making on the Job Portals*	
Job Ready Skills*	
Minimizing The Stage Fear*	
Business Plan Writing*	
Guidance for Higher Studies*	
Arenas after B.E.*	
Freelancing*	

### Motivational Trainings

The institute recognizes the importance of human values and motivation required for development of perfect professionals. Hence, experts carrying the specialized knowledge and prolonged experience are invited to deliver sessions to encourage, motivate and guide the students.

### Personal Counseling

One to one personal counseling is provided to every student at different times. The counseling is given to make the students aware of their potentials, so that they can concentrate on the area of their expertise and strengthen those factors where they have deficiency. It also increases the confidence level of the students for their future.

### Session on Vocabulary and Grammar

Vocabulary plays vital role in an effective communication and understanding of basic rules of Grammar is necessary for error free communication. So students are given an ample practice of Grammar and Vocabulary.

### Resume Preparation

Students are trained to prepare attractive and effective resume which helps them showcasing their academic and other laurels. The orientation session on Resume making is conducted in semester II with an intention of letting the students know that they are required to fill the necessary information in the blank fields which are pre-defined in the format of Standard Resume used for all the students.

### How to Communicate?

Communication is the backbone of Commercial and Industrial world so effective communication plays crucial role in the success story of an individual. Here students are given exposure to better oral and written communication.

### GATE Classes

GATE is one of the most difficult competitive exams of the nation in technological field so to make it easier for the students, provide them ample knowledge and required guidance institute has made arrangements for special preparatory classes for GATE. The classes are conducted by the subject experts specially appointed for these classes and whole course is made **free of cost** to interested students by the college management.



*Swami Nikhileshwaranand blessing the students through his invaluable motivational words*



*Students in an Aptitude Test organized in the institute*



### Workshops

Regular workshops are arranged in each branch and in **every semester** so that the students and faculties of respective department remain abreast with latest trends of their fields. These workshops are made free of cost and are totally funded by the institute. Such workshops provide an exposure and hands on experience of the prevailing cut-edge technologies.



*Mr. Sujit Chavda during an experts' talk in the institute*

### Industry Experts' Talk

The expert lectures have been frequently organized to enrich the students with the knowledge in their respective subjects and to provide them latest sufficient information related to Technical field.

### Preparation for Competitive Examinations

Looking at the inclination of the students towards the competitive examinations especially GPSC/UPSC, orientation and training sessions are arranged by inviting the experts carrying profound knowledge and experience to deliver the session.



*Dr. Bharat Patel from SPIPA during an interaction with the students*



### Innovative Projects

Students of 7<sup>th</sup> and 8<sup>th</sup> semester take up industry defined or user defined projects as a part of their curriculum. These projects are supervised by internal and external guide. For encouraging research and innovation in technology, institute provide total fund to these projects.



### Software Training- Free of Cost

The world is heading towards technological innovation and is bringing up many such technologies using which work can be done easily. Going with the same concept, the institute organizes these training programs for the students from 3<sup>rd</sup> to 6<sup>th</sup> Semester for all the branches **without any fees**. Institute invests more than **₹ 3 Lakh every semester** for Software training.



Semester	Electronics and Communication
3 <sup>rd</sup> Semester	Embedded C – Level 1
	MS-Office
4 <sup>th</sup> Semester	MATLAB
	Embedded C – Level 2
5 <sup>th</sup> Semester	MATLAB Simulation
	Embedded C – Level 3
6 <sup>th</sup> Semester	PLC Scada
	Advanced VLSI

Semester	Computer Engineering
3 <sup>rd</sup> Semester	C Language
	MS-Office
4 <sup>th</sup> Semester	HTML /Web Designing
	DBMS
5 <sup>th</sup> Semester	VB
6 <sup>th</sup> Semester	Java
	ASP.NET
	PHP
	Systems Programming (Linux, etc.)

Semester	Mechanical Engineering
3 <sup>rd</sup> Semester	C Language
	MS-Office
4 <sup>th</sup> Semester	Autocad
5 <sup>th</sup> Semester	Pro-E
6 <sup>th</sup> Semester	ANSYS

Semester	Civil Engineering
3 <sup>rd</sup> Semester	C Language
	MS-Office
4 <sup>th</sup> Semester	Autocad-3D
5 <sup>th</sup> Semester	Revit
6 <sup>th</sup> Semester	ETAB /SAP 2000 /STAAD-PRO

### Industrial Visits

Along with the regular classes and laboratory, Industrial visits are also conducted in **each department each semester**. The visits are planned for the students of third and higher semesters. The visits provide an opportunity to get exposure to the present industrial application of technology. These visits are **free of cost** for the students including all the travel and stay expenses. Following is the list of industries with which institute has interaction in terms of industrial visits, field training, industry Expert.

### Mechanical Engineering

- Prasad-Prashant Group of Industry, Ahmedabad
- Sardar Sarovar Dam, Kevadiya Colony, Bharuch
- Thermal Power Plant of GEB
- Neptune Industries, Mehsana
- Indo German Tool Room, Ahmedabad
- Appollo Construction Equipment Ltd., Mehsana
- Windsor Machine Pvt. Ltd., Gandhinagar
- Sandvik Asia Pvt. Ltd, Mehsana
- J.H.Engineering Works,Vatva, Ahmedabad
- Wanakbori Thermal Power Plant, Kheda.
- Banaskantha District Co-Operative Producers' Union Ltd.
- Shreeji Pvt.Ltd, Hebatpura. Palanpur
- Bio-Fuel Research and Development, Palanpur
- Pawan Cement Co. Ltd., Palanpur
- Nirma Ltd.
- IFFCO, Gandhidham and many more...



### Civil Engineering

- M.S.Khurana Engineering Ltd., Ahmedabad
- Ranjeet Buildcon Ltd, Ahmedabad
- KCT Consultancy Services, Ahmedabad
- Arvind Mill, Vadsar
- Gujarat Water Supply Sewerage Board, Gandhinagar
- Godrej Garden City, Ahmedabad
- Railway Staff College, Vadodara
- Railway Museum Board, Baroda
- Narmada Dam, Kevdiya Colony
- Ajay Engi-infrastructure Pvt. Ltd.
- Hot Mix Plant, Ahmedabad
- Mundra Port Gujarat Maritime Board, Gandhinagar
- RMC Plant, Koba, Gandhinagar
- Swastik Tiles, Mehsana-Ahmedabad highway
- Adani Shantigram and many more...

## Electronics and Communication Engineering

- EQDC, Gandhinagar.
- Circuit Systems India Ltd., Gandhinagar.
- Doordarshan Kendra, Ahmedabad
- Sahajanand Laser, Gandhinagar.
- MCBS, Gandhinagar.
- Hitachi Hi-Rel Power Electronics Pvt. Ltd., Gandhinagar.
- Solar Park and GETCO, Charanka, Patan.
- NCIT, Gandhinagar.
- Sardar Saorvar, Narmada Nigam Ltd.
- Amtech Electronics, Gandhinagar.



## Computer Engineering

- HCL, Gandhinagar.
- Sigma Solve IT
- Rishubh, Vadodara.
- Bisag, Gandhinagar.
- ISRO, Ahmedabad.
- Bisag, Gandhinagar.
- RTTC, Ahmedabad.
- ISRO, Ahmedabad.
- Dots and Coms, Baroda.
- Web Revolution, Ahmedabad.
- Atenssa Software, Ahmedabad.
- Fourfox Infotech, Ahmedabad.
- Data Soft IT Computer Solution, Ahmedabad.

For Industrial Visits of students Institute provide financial assistance of around ₹ 6 Lakh every year.

## Field Trainings

While the industrial visits provide an over-all view of the present industrial scenario and technological applications, the field trainings are meant to make the student self-reliant and confident in carrying out various projects in association with respective industries. The field training is organized twice, once between 5<sup>th</sup> and 6<sup>th</sup> Semester and next between 6<sup>th</sup> and 7<sup>th</sup> semester. These trainings are **free of cost** to the students including all the travel and stay expenses. Total fund of around ₹ 3.5 Lakh are allotted **every semester** by the Institute.





### Students' Seminar

Seminars for the students of 3<sup>rd</sup> to 6<sup>th</sup> semesters are organized in each branch. It is organized with the purpose so that students can explore the new technologies and inventions in their respective subjects. During this students chose topics related to their disciplines, prepare presentations and present them, this further help them to develop presentation skills. In order to motivate the students institute has commenced a competition where students showcase their presentation skills and they are evaluated accordingly. To appreciate their efforts 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> prizes are given in **each semester** worth ₹ 3000/-, ₹ 2000/- and ₹ 1000/- respectively.

### Students' Group

To inculcate the varied skills amongst the students like leadership, initiation, interpersonal, managerial, persuasive and communication; the institute has taken a step by introducing self-managed students' group. These groups shall be responsible to manage allied activities of the institute by coordinating various activities after the teaching hours. Following are the groups in which the students have registered their membership:

- Study Circle
- Motivational Lectures
- Training and Placement
- GATE Classes
- Preparation for Competitive Exams
- Cultural Activities
- Gym and Physical Exercises
- Central Announcements
- De-addiction Programs
- Social Service Group
- Students' Seminar
- Sports Activities
- Designing and Publication
- Language Club
- Students' Counseling
- Technical Groups

### Expert Lectures

The experts from the industries and academics are been frequently called **each semester** to enrich the students with the knowledge in their respective fields. Such experts' talks are helpful in getting latest and lucid information of the path breaking developments in technology, which is otherwise difficult to obtain through regular academic syllabus.





## "Prakrust" – A National Level Technical Symposium

A National Level Technical Symposium entitled "Prakrust" is conducted **every year**. As the name suggests it is to find excellence in technology. Other than the traditional crowd-pulling events, Prakrust boasts many new initiatives and interactive events.

The aim of competitions & events at Prakrust has been to cater to all genres of engineering and technology. This is ensured by having competitions like Robo Race, Robo Fight, Paper Presentation, Model Presentation, Aqua Robo, Documentary, Circuit Debugging, Bug Hunter, and Add & Made. All the events show a huge turnout both in terms of enthusiastic participants and an exuberant audience.



*Inauguration of "Prakrust" and enthusiastic participants of "Prakrust"*

## "NCIET" – National Conference on Innovative and Emerging Technologies

In continuation of various significant activities our institute organizes "National Conference on Innovative and Emerging Technologies" **every year**. The primary goal of the conference is to bring together the nationwide leading researchers, engineers and academicians interested to exchange their innovative ideas in the fields of technology for futuristic development and human welfare.

Technical papers under four different tracks namely, Civil, Computer Science/IT, E&C and Mechanical engineering are presented in students and professional categories.



*Shri Rameshbhai H. Patel with other dignitaries inaugurating "NCIET" and Shri P.K. Laheri, Rtd. IAS, awarding the participants.*

### “Ramzat” – Navratri Celebration

A vibrating Raas-Garba event “Ramzat” is celebrated with the students and the staff of the college. The objective of the event is to revive the feel of the rich traditional and cultural values among our new generation.



### Pratibha

The Institute dedicated one week to unleash the talents residing amongst the students hence they organized the event entitled “PRATIBHA”. The prime objectives of organizing this event was to help the students in unleashing their hidden and artistic talents, to involve themselves in some other activities so that they can get the momentum to focus more on their studies and to wipe out the stage fear of the students.

### “Funethiz” – A Cultural and Sports Event

Funethiz is the cultural and sports event which is organized in the institute **every year**. During this event a week long sports activities are organized, where all the students and employees of the college participate with a true sportsman spirit. In the cultural event student showcase their talent in music, dance and acting. The whole event rejuvenates the campus life with enthusiasm.



### Xitij

The Institute hosted GTU Youth Festival “Xitij 2013” for Gandhinagar zone. The College Principal, Dr. Ami H. Shah took the charge of Organizing Chairman for the same. The festival was held on 20<sup>th</sup> and 21<sup>st</sup> September, 2013. Total 18 different degree colleges of Gandhinagar under the umbrella of GTU participated in this two days’ festival. During the festival 23 various events under 5 major categories of Music, Dance, Theater, Literature and Fine Arts were organized.

### "Prarambh" – Orientation Program

The Orientation Program for the first year students "Prarambh" is held in the initial days of the academic year and looks forward to various dignitaries and inspiring fresher. The event is designed in a way that can help the new students to understand the policies and practices of the institute and also to make them adapt to the institute culture. It also introduces the fresher with institute location and infra structural facilities.



### "Prasthan" – Farewell Event

A farewell function "Prasthan" is organized by the institute for the passing out students of the college. It is to mark the long association of the students with the SRPEC family, to wish them success in the upcoming endeavors and to make the college days a memorable part of their life. It is also meant to bless the students to get established as best technocrats.

### "Prayag" - An Alumni Meet

"Prayag" aimed at providing a platform to the final year students to take the advantage of the experience of the alumni who passed out previous year and can also learn the various facets of working in an industry. It was a mesmerizing experience to see the warmth of the alumni which they reflected by sharing their invaluable experience of post - graduation life. They wished the students for all success for their future professional carrier.



*Dr. A. H. Shah, Principal of the Institute awarding the student on Annual Day*

### Annual Day Celebration

Annual day is organized by the college during which the annual report of all the important activities carried out during the past academic year is presented. During the annual day various awards of excellence in Academics, sports, various projects, technical events along with "Prakrusht" awards are given to deserving students. Emancipation of college souvenir "Srujan" is also done on this occasion.

### College Days Celebration

To mix in fun with studies a week long College Days are celebrated **every year**. Various days which are observed, are Chocolate Day, Rose Day, Group Day, Black and White Day, Traditional Dress Day etc.



### National Day Celebration

To instill the spirit of patriotism and make the citizens of this country proud of our nation, Republic Day and Independence Day is celebrated **every year**. It becomes fascinating to witness the environment which is ruled by our Indian Flag.



*Swarni Sachchidanand blessing the students on Orientation Day*







### "Samarpan" – Blood Donation Camp

A blood donation camp is organized at institute campus **every year**. The blood donation camp is organized in association many well known organizations actively involved in societal development. More than 100 units of blood are donated by students and staff of the college.

### "Vasundhara" – Tree Plantation

"Vasundhara" the Tree Plantation event is organized on 15<sup>th</sup> August **every year**. Many saplings are planted during this noble event by the staff members and students. The complete event receives an enthusiastic support from the whole student and staff members.



### Thalessemia Testing

In continuation with the mission of societal welfare and development, a camp is organized where the students are tested for widespread disease called Thalessemia.

### Joy of Sharing Day

To see the smiles on the faces of the people was the main objective of celebrating Joy of Sharing Day. The event focuses on giving a help to the poor and needy people. This event is celebrated with a great zeal and enthusiasm.





## Campus Connect

Placement is an integral part of any academic program. The institute has identified different activities to not only place the students in esteemed organizations but also prepare them for the working in the industry. The placement team also takes care about the expectations of students and their employability skills. If some areas are found where students lack; training programs and workshops are organized to fill the gap. Following are some activities which are conducted as far as placement is concerned.



### Resume Preparation

Students are trained to prepare attractive and effective resume which help them get short listed for job.

### Grooming and Etiquette

Along with technical skills and knowledge students need to learn professional etiquette and mannerisms. Keeping in mind this aspect Institute invites experts from the Industrial and Business world to groom the students for better professional life.

### An Orientation on Group Discussion

Group Discussion has become an integral part of any Admission and Recruitment process so students are explained the whole process of formal Group Discussion and they are made aware about the Do's and Don'ts of Group Discussions.

### Career Counseling

The main objective of conducting one to one counseling sessions is to know the level of employability of the students; their areas of interest, positives and negatives about their personality and several other parameters which are important for the industry to evaluate them. It is also inevitable to identify where they can fit best as far as organizations are concerned.



### Career Choice Form

Considering that all the students have a varied career choice and not all of them are interested to work after the graduation; arrangements have been made to identify the respective career choices of the students through Career Choice Form. This form entails many relevant details to classify the career choices so that the sessions can be arranged to direct them into their choice.

### Improving Aptitude Quotient

In today's age, where quality is considered as a prior element in almost all the activities of the organization; the companies even look up for such candidates who are capable and possess all the necessary skills to work in the industry. Looking at this perspective, the students are prepared on the basic aspects of Aptitude Quotient comprising of various sections like Logical Reasoning, Quantitative Ability, Basic English, etc.

### One day with HR

To introduce the students with the organizations' work culture and the expectations that the industry has from the employees in terms of code of conduct, a session is arranged where a representative from the Human Resource department of esteemed organizations is invited to deliver a talk.

### A Guide to Interview Questions

Students need an exposure to the Interview process in the final semester where they can learn different ways to succeed the interview. They are also introduced to certain common and complex questions asked frequently in the interviews.

### Technical Sessions

Technical sessions help the students to identify the important concepts of their field which are frequently asked during the technical interviews. The experts during the session help the students to strengthen their technical competencies and teach them how to transfer their theoretical knowledge into workplace.



*Dr. A.H. Shah, Principal, motivating the students for their technical sessions*



*Students with an Industry Expert in mock HR interview*

### HR Sessions

These sessions object at explaining the importance of soft skills and other related parameters during interviews. The sessions are arranged on the areas of how to handle interviews, body language, communication skills, etc.

### Pre – Placement Training

The training is organized initially to make students aware about the current scenario of the industry, the expectations from the industry personnel and the acceptable standards of behavior at workplace. It also aims at helping the students to adapt to the transition from a student to an employee.



### Mock Interviews

Apart from pre-placement training and counseling, mock round of interviews for HR as well as technical are conducted to make the students experience the environment of interviews and also to eradicate the fever of facing the interviews. Placement drives are also organized for those companies who wish to have exclusive rounds of placement activities.

### Campus Placement and Job Fairs

The institute organizes campus placement and job fairs where industry giants are invited to conduct recruitment process for the students of not only our institute but also the students of North Gujarat region. It is assured that all the students receive a fair chance of getting placed.







**Dr. Akshai Aggarwal**  
Vice Chancellor,  
Gujarat Technological University



**Mr. Satyendra Gupta**  
Ass. Manager,  
ONGC, Mehsana.



**Dr. D. O. Shah**  
Professor, University of Florida.



**Dr. L. N. Patel**  
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Saint & Philosopher



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**Shri P. K. Laheri**  
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