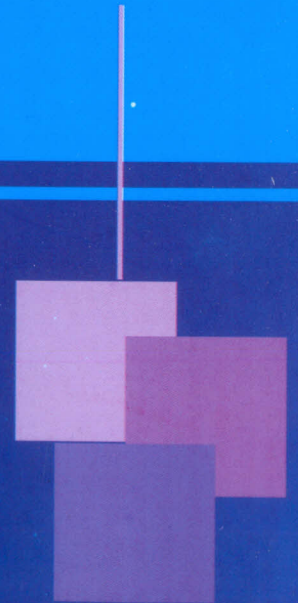




न हि ज्ञानेन सदृशं पवित्रमिह विद्यते।

Smt. S. R. PATEL
ENGINEERING COLLEGE

Placement Brochure





या कृन्देन्दु तुषारहार धवला या शुभ्र वस्त्रावृता ।
या वीणा वर दण्ड मण्डितकरा या श्वेत पद्ममासना ॥
या ब्रह्माच्युत शंडकर प्रभृतिभिः देवैः सदा वन्दिता ।
सा मां पातु सरस्वती भगवती निःशेष जाड्यपहा ॥



Vision and 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 activity and inculcate in them ethical and moral values.

Aim :

To build a better nation through quality education with team spirit.
To develop citizens with knowledge, skill and character leading to social transformation and national development

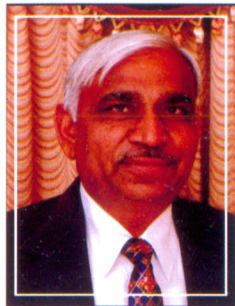


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Chairman's Message



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

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 grooming 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.

Shri. Rameshbhai H. Patel,
Chairman

Principal's Message



It gives me immense pleasure to pen down a few words for college Placement Brochure. The purpose of this brochure is to give a glimpse of activities carried out in the college and the achievements made by the students and the institute.

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. 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 your organization through their technical and managerial capabilities and their talent for innovation.

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.

Dr. A. H. Shah,
Principal



Placement Officer's Message



The department of Training and Placement, the Heart of the institute has these following functions and responsibilities :

- To nurture Industry Institute Interaction by organizing and coordinating frequent industrial visits.
- To arrange In-Plant training and projects of industrial relevance for the students with the sole aim of zeroing down the hiatus between the industry and the academia.
- To ensure that the curriculum follows the latest industrial trends by receiving and forwarding the feedback pertinent to curriculum improvement from the visiting companies to the faculty.

The present batch of our young budding engineers is working hard to be a part of the large dynamic industry. Apart from core technical skills, our students are competent in soft skills too.

Our aim is to actively assist you in attracting and identifying the individuals best suited to your needs and in developing a successful recruitment relationship.

I indeed have a great honor to present the students to your esteemed organizations as I look forward to your cooperation in the placements of our students.

Prof. H. C. Patel,
Placement Officer

About the institute

The institute "Smt. S. R. Patel Engineering College" was established in the year 2009 at Dabhi, about 4 Km. away from Unjha and 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 lush green campus is spread over in a twelve acre area. The beautiful landscaping, gardens and peaceful environment provide a true feeling of closeness to the nature.

The institute offers four years degree engineering programs in following four disciplines at under graduate level :

Department	Total Intake	Passing Out Students
Mechanical Engineering	120	66
Civil Engineering	60	50
Computer Engineering	60	66
E & C Engineering	60	66

The institute is approved by the All India Council for Technical Education (AICTE) and affiliated to Gujarat Technological University (GTU), Ahmedabad. All these programs are designed to provide application based learning environment through a combination of co curricular 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 visit and field training relevant for the students. The field training of 15 days to 1 month is organized twice, once between 5th and 6th Semester and next between 7th and 8th semester. Students take up a number of projects during their final year course. All the curricular and co curricular events are sponsored by the institute.

Facilities

Classroom

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.



Cafeteria



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.

Seminar Hall

This seminar Hall is fully media equipped with LCD Projector and HD Sound System. It has a capacity of 250 viewer seats and 25 stage seats. The hall is fully air conditioned.



Board Room



Well-equipped and spacious board room for conducting meetings and interviews.

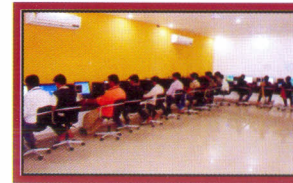
Library

It is well furnished, centrally air-conditioned and spread over 536 sq.m. At present, the library is having more than 7162 books and current subscription of 32 National / International journals. 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.



Wi-Fi Enabled Campus



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

Boy's 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



Transport facility from Unjha to College campus can be made available to students on their request. The institute has purchased bus for the purpose of local transport and industrial visits.

Mechanical Engineering Department

5

Introduction

The department offers undergraduate programme in Mechanical Engineering. It is in the process of establishment of state of the art laboratories. Central workshop is spread over 1134 sqm housing carpentry shop, fitting shop, black-smithy and tin-smithy, plumbing-shop, machine-shop and foundry-shop. The Mechanical engineers are required in automobile, electronics, steel plants, oil exploration and refining, technical wings of armed forces, space research organizations aeronautical, agriculture, etc. They get absorbed in private or public sector industries of various types. Several government departments like Post and Telegraph, Defense, PWD, and CPWD employ Mechanical Engineers.

Final Year Students' Projects

Analysis and Design of Centrifugal Pump
Analysis on effective utilization of Exhaust Gases in Automobile
Automobile Air Conditioning
Design and Development of Solar Distillation
Design of Gear Box
Development of Magnetic Pump
Development of Automation Foundry
Development of CNC Milling Machine
Development of Vibrating Spiral Elevator
Experimental analysis on the performing Improvement of Compressed Air Power Vehicle Development
Experimental Investigation of Effect of Machining parameter on Surface Roughness, Power Consumption and MRR in turning of steel
Experimental investigation on the performance improvement of Biogas Plant
Experimental Investigation to enhance Heat Transfer Device
Linear static analysis and Development of Robotics Arm
Liquid Filling Machine
Parameter analysis of MRR on EDM
Parameter analysis on WEDM
Parametric analysis on Plasma Cutting Machine
Performance analysis CPC Water Heater System



Industrial Visits & Field Trainings Undergone

Appollo Construction Equipment Ltd.
Banaskantha District Co-Operative Producer's Union Ltd.
Bio-Fuel Research and Development
Indo German Tools
J.H.Engineering Works
Neptune Industries
Sandvik Asia Pvt. Ltd.
Sardar Sarovar Dam
Shreeji Pvt. Ltd.
Thermal Power Plant of GEB
Windsor Machine Pvt. Ltd.
Wanakbori Thermal Power Plant, Kheda

Laboratory

Automobile Engineering
Computer Aided Design
Conventional Power Engineering
Dynamic of Machine Engineering
Engineering Graphics
Elements of Mechanical Engineering
Manufacturing Process- I & II
Fluid Power Engineering
Fluid Mechanics
Heat & Mass Transfer Engineering
Machine Design and Industrial Drafting
Mechanical Measurement and Metrology
Material Science and Metallurgy
Theory of Machine Engineering
Workshop

Main Equipments & Softwares

Models of Turbines
Heat Exchanger, Conduction ,Convection and Radiation Related Set-ups
Models of Governors ,Gyroscope Etc
Pelton Wheel, Francis Turbine, Kaplan Turbine Etc
Vibrometer & Furnace, Microscope Etc
Slip Gauges, Vernier Caliper, Micrometer Etc
Welding Torch, Gas Cylinder Etc
Reynold's Apparatus, Pipe Friction, Metacentric Height Etc
Hydraulic Flume, Wind Tunnel
Carpentry Tools, Smithy Tools, Fitting Tools
Lathes, Shaper, Milling Machine Etc
Disassembled Components of Maruti, Chasis of Different Models
Pro-E Software (50Terminals)
AutoCAD
Pro-E Software (Creo Parametric 1.0)
SCILAB



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 its students. The career opportunities available to a Civil Engineer are Surveyor and quantity estimator in Govt. and private sectors, architectural engineering, interior designing, as Project engineer/manager, R&D, Town planner in Govt. Sectors etc.

Laboratory

Advance Fluid Mechanics
Advance Surveying
Concrete Technology
Elements of Civil Engineering
Environmental Engineering
Geotechnical Engineering I
Geotechnical Engineering II
Highway Engineering
Mechanics of Solids
Water and Waste Water Engineering
Surveying



Main Equipments & Softwares

Dumpy Level, Theodolite, Total Station
Los Angeles, Impact Test, Ductile Test Machine, Bituminous Extractor
Digital PH Meter, Digital Spectrophotometer, BOD Incubator, COD Digester, Digital Conductivity Meter, Digital Turbidity Meter, Distillation plant Quartz, Desiccator-250 mm.
Compressive Testing Machine, Vicat Apparatus, Slump Cone, Mixture Machine, Compaction Factor Testing Machine, Vibrating Table, Vee Bee Testing Machine
Swell Test Apparatus, Unconfined Compression Tester, Relative Density Apparatus, Consolidation Apparatus, Direct Shear, Plastic Limit Device, Dynamic Cone Penetrometer, Permeability Apparatus.
.Izod Impact, Universal Testing Machine, Rockwell & Brinell Hardness, Simply Supported Beam, Universal Force Table, Single Winch Crab, Wheel & Differential Axle.
Autodesk Revit 2013, Autodesk AutoCAD 2013, Scilab

Final Year Students' Projects

Artificial Sand use in Plaster Mortar
Bridge Foundation
Concrete Admixture
Crumb Rubber & Fly-ash
Design of Multistoried Residential Tower using Staad.pro package analyzed for Earthquake Forces with Ductile Detailing as per IS 13920.
Development of Earthquake Shake Table
Development of Rural Area (Village: Degam)
Green building
Material Management Practices Indian Middle Level Construction
Reinforced Earth Wall
Retrofitting of Different Element of Structure
Solid Waste Management
Traffic Analysis and Signal Design



Industrial Visits & Field Trainings Undergone

Arvind Mill	Ajay Engineering Pvt.Ltd
Godrej Garden City	H.G.Engineering Pvt. Ltd
Gujarat Water Supply Sewerage Board	Gujarat Maritime Board
Hot Mix Plant	Ajay Protect Pvt.Ltd
Indira Bridge	Anubhav Construction Company
KCT Consultancy Services	Ajit Construction Company
M.S. Khurana Engineering Ltd.	Tacon Infrastructure Pvt.Ltd
Narmada Dam	Gujarat Siddhi Cement
Railway Staff College	Patel Infratech
Ranjeet Buildcon Ltd.	Sanjay Construction Pvt.Ltd
Abhishek Engg.Pvt.Ltd	



Computer Engineering Department

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Introduction

The Computer Engineering Department offers 4 years UG 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 130 computers with latest software and internet connectivity.

Laboratory

Advanced Computing Technology Lab

Computer Programming and Utilization Lab

Data File & Structure Lab

Database Management System Lab

Design Analysis and Algorithm lab

Embedded Technology Lab

Java Lab

Advanced Java Lab

Mobile Computing



Main Equipments & Softwares

Computer Sets 190

IBM Server 2

Cyberoam

SQL Server 2005

Netbeans

Visual Studio

Oracle 10 g

Final Year Students' Projects

Accounting system Software

Attendance System

Automobile Management System

Car Trading Portal

College Website

E- Conference Manager

E-Bidding Portal

E-Learning Portal

Industry Metamorphosis

Insurance Agent

Mortar Mayhem Game in Android

Online Courier Management

Online Insurance Information System

Online Share Trading

Online Study

Project Management System

Representing Hindi Serials and Cinemas

Secret SMS Magnet

Social Networking

Tendering Portal



Industrial Visits & Field Trainings Undergone

Bhaskaracharya Institute For Space Applications and Geo-Informatics (BISAG)

HCL

Vikram Sarabhai Space Exhibition

Rishubh Infotech

Regional Telecom Training Centre, BSNL

Sigma Solve IT

Web Revolution

Safal InfoTech

Novetrise technologies

E & C Engineering Department

8

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.

Laboratory

Advance Electronics
Advanced Processor
Antenna & Wave Propagation
Applied Electronics
Audio-Video systems
Basic Electronics
Electronics Measurements
& Instrumentation
Circuits & Networks
Communication Engineering
Digital Communication
Digital Logic Design
Digital Signal Processing
Electronics Communication
Elements of Electrical Engineering
Embedded System
Microcontroller & Interfacing
Microprocessor & Interfacing
Microwave Engineering
Optical Communication
Satellite Communication
Power Electronics
Simulation & Design Tools
VLSI Design and Technology
Wireless Communication

Main Equipments & Softwares

Stepper motor Connector
Maxwell Bridge
Diode Characteristics
TAT,COT,PAT Trainer Kit
DC Motor – Gene. Set
CDMA GSM Trainers Kit
8255 Study CARD
Analog link Transistor
All Analog and Digital Components
SCR ,UJT, Triode Omega
Basic Logic Gates
OP-Amp. Trainer Kit
Color TV Trainer and P.A. System
Satellite Comm. Kit
Open Loop Control System
SSB,DSB, Modulation and Demodulation
TDM Pulse Amplitude Modulation and Demodulation
Microwave Test Bench
The venin's Theorem
Antenna Trainer Kit
CPLD,FPGA Trainer Kit
Embedded Software, Microcontroller & Interfacing , Microprocessor, SDCC

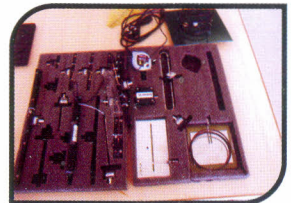
Final Year Students' Projects

8051 interfacing with GSM module and Graphical LCD
Automatic Volume Filler
Automation Car Parking System
Car Security System using GSM System
Emergency Calling System in Hospital
GSM and Controller based Accident Alert System
GSM based Automatic Pump Control in Farm
GSM based Home/Factory Automation System
GSMC based Automatic Power Meter Reading System
Industrial Pollution Check and Tracking
Low Cost Attendance System
Multilevel (3 Level) Security System (Finger Print, Password, GSM with LCD)
Multilevel Automatic Car Parking System
Over Speed Detection of Vehicle using RFID and GSM
Paperless Energy Billing Machine
Patient Monitoring System
PF measurement Monitoring and Analysis
Pre-Post Cost Effective Billing
Real Time based Energy Saving Intensity Controlled Timer
RF ID based attendance Cum Security System
RS-232 Transmitter/Receiver using FPGA with VHDL code
Sensor based Automatic Paint Marking Machine for Sprocket Industries
SMS Controlled LCD Scrolling Message Display

Industrial Visits & Field Trainings Undergone

Circuit Systems India Ltd.
Hitachi Hi-Rel Power Electronics PVT. Ltd.
TATA Tele Communication Service Ltd.
Solar Plant, GPCL, GETCO,
Ericsson India Global Services Pvt. Ltd.
Reliance Communication Pvt.Ltd
Anchor Electronics Pvt. Ltd.
BSNL Tele Communication
PCS Technology Pvt.Ltd.

Truemake NIDC Estate
Amtech Electronics
Jayant Circuit
MCBS
Sahajanand Laser
Ocleg Control
Sigma Trainers and Kits
NICIT
EQDC



Various events and activities are arranged throughout the year to provide an exposure to the students to different responsibilities & make them self-reliant. To enhance the ability in students to develop, execute and handle the real time projects at industries a number of clubs and companies were formed in the college. These clubs and companies are of the students, by the students and for the students. Apart from various positions held by the students, faculty mentors are also there to supervise the activities of these groups.

Clubs :

Four different clubs are formed for overall development of the students, to make them morally, culturally, technically and socially responsible citizen. The four clubs & their activities are :



"Ayaam"- Career Club

To provide an opportunity to the students to develop an interest about the various possible future vistas in their respective area and make them able to study and represent their ideas about the new topics through seminars, workshops, expert lecture series etc.



Personality Development Program



Presentation Skill Development



Expert Lecture



"Urja" - Sports and Cultural Club

To encourage the students in field of sports and games, & also to showcase their talents in the form of Music, Songs, Dance, Mimicry and Skits. They also organise and celebrate other events like Annual sport's week & Cultural Night as "Funethize", Teachers day, College days etc.



Navratri Celebration
"Ramzat"



Cultural Night, Sports & inter-zonal Sports event
"Funethize"



"Yogdaan" - Social Accountability Club

To develop a sense of responsibility to earth, its people and its environment.



Tree plantation "Vasundhara"



Blood donation "Samarpan",
& Thalassemia testing



Independence
/Republic day Celebration



"Khoj" - Discovery Club

To encourage the students for innovations in technical field, provide necessary guidance and opportunity to showcase their technical creativity. To organize and participate in different technical competitions.



Annual day Celebration



Model Development by Student

Companies :

In each department a company has been formed with students taking up the role of Board of Directors, CEO, Production Manager and Marketing Manager. The companies make arrangements for field training of the students, where they identify the problems faced in industries and strive to find solutions to them. The companies also organize special expert lecture series, seminars and soft training programs for the students of respective divisions.

The different companies are :

- 1) Mechnotech (Mechanical Engineering)
- 2) Civengers (Civil Engineering)
- 3) Cyber Space (Computer Engineering)
- 4) Electron (E&C Engineering)

Technical Symposium "Prakrusht"

To develop Technical awareness about the recent trends in areas of science and technology, National Level Technical Symposium "Prakrusht" is organized each year since 2011. The symposium is jointly organized by all the companies of different departments, "Aayam" – Career club and "Khoj" – Discovery club. Students of different colleges participate in various Technical events, Paper and Model presentations and Competitions. Expert lectures on recent trends are also organized. Awards of more than Rupees 2 lakhs are given to winners of all the events.



Technical Workshops

Along with the regular classes and laboratory work, workshops are organized for the benefit of students and faculties of various departments. These workshops are arranged and handled by companies of respective departments and totally funded by the college management. They are meant for providing an exposure and hands on of the cut-edge technologies prevailing in various areas of engineering.

Workshop of
Robotics by
Mechnotech



Workshop
on Total Station
Application by
Civengers



Workshop on
Android
Applications
by Cyber Space

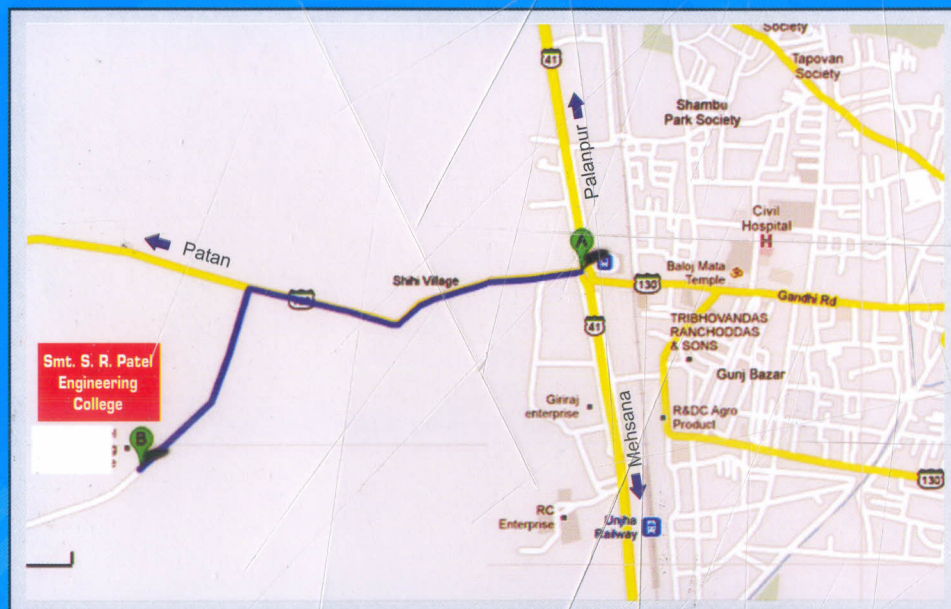


Workshop on
Embedded
Systems by
Electron



The Talent Pool...

	Our Zone	Our College
Total Students	2820	188
Students above First class	1098	108



Our Recruiters...



And many more...



Smt. S. R. Patel Engineering College

At. Dabhi, Ta. Unjha, Dist. Mehsana, (North Gujarat) Pin. 384170.

Tele. (O) 02767 - 272009 / 11 / 12. Fax. 02767 - 272617.

Website : www.srpec.org.in,

E-mail : info.srpec@gmail.com, placement.srpec@gmail.com