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MINERALS

Volume-4



**Smt. S. R. Patel Engineering College**

At. & Po. Dabhi, Ta. Unjha - 384170

Phone : (02767) 272009 / 11 / 12.

## 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. //

યા કૃન્દેન્દુ તુષારહાર ધવલા યા શુભ્ર વસ્ત્રાવૃતા ।  
યા વીણા વર ઢંઠ મળિતકર્યા યા શ્વેત પદ્મસના ॥  
યા બ્રહ્માચ્યુત શંકર પ્રભુતિભિઃ દેવૈઃ સદા વન્દિતા ।  
સા માં પાતુ સરસ્વતી ભગવતી નિઃશેષ જાહન્યપહા ॥

અસત્યો માંહેથી પ્રભુ ! પરમ સત્યે તું લઈ જા,  
ઊંડા અંધારેથી પ્રભુ ! પરમ તેજે તું લઈ જા,  
મહામૃત્યુમાંથી અમૃત સમીપે નાથ ! લઈ જા,  
તું - હીણો હું છું તો તુજ દર્શનનાં દાન દઈ જા.





## Vision

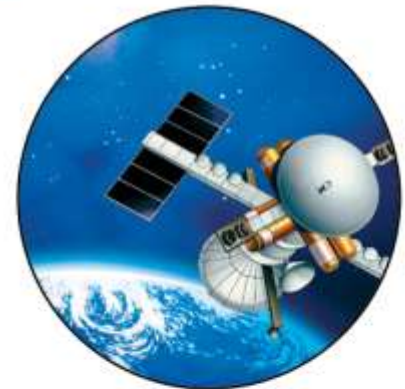
To become a leading institute committed to shape a bright future for human community by developing effective and socially responsible individual and organization through technical education.

## Mission

SRPEC targets the all round development of the students. For fuelling the overall development of our country, it aims to produce worthy and loyal citizens of a great country in addition to good professionals. The institute helps to identify individual's potential, encourages through proper preparation and training to achieve individual's life goals and satisfaction.

## 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 continually improve the System, Infrastructure and Services to satisfy the Students, Parents, Industry and Society.



# SOUVENIR

## Volume-4



## *From Chairman's Desk*



**Shri Rameshbhai H. Patel**

I feel euphoric that the fourth volume of College Souvenir "**Srujan-2015**" is going to be published. As in earlier volumes we had specified the details of our institute, its students, their accomplishments and different events, this volume is encircling the further development undergone during the present academic year with the faculty achievements. The earlier volumes were highly appreciated by one and all.

Our institute Smt. S. R. Patel Engineering College (SRPEC) strongly follows to achieve its mission and to fulfill its vision. Different activities and events are planned out around the year to supplement regular teaching and also to keep them abreast with the ongoing development in the field of science and technology.

Considering the impact of globalization and competitive world, SRPEC faculty and staff are being trained on a continuous basis in curriculum development and analysis of each subject, its concepts, principles and applications. Learning packages based on psychology of learning and subject matter analysis are prepared for easy understanding. We also give attention of students Research & Development in their master area; for that we have established the separate research project laboratory for students; which run throughout 24 x 7 (365 days).

I appreciate the efforts of staff members and students for working with such dedication and I congratulate them for their achievement in the present academic year.

**Mr. Rameshbhai H. Patel,**

Chairman



## *From Principal's Desk*



**Dr. A. H. Shah**

It is my proud privilege and gratitude to pen down the words for the fourth volume of our college souvenir **"Srujan 2015"**. I am quite sure that just like its earlier volumes, the current one will also be able to present the panorama of college achievements and equally appreciated by all.

We, at Smt. S. R. Patel Engineering College, make constant endeavors to provide quality education in frontier areas of engineering and cutting edge technology through providing encouraging environment. We always feel that we are on the embryonic stage so we found the new ways to develop us every year. We also profoundly accentuate on discipline and regularity because we believe that our students should not only be technologically superior but also be ethically strong engineers.

We leave no stone unturned to raise the intellect of our students. Apart from the regular academic lectures, practical, seminars and project we also provide them opportunities to get familiarized with the modern developments in their respective field. Regular organization of expert lectures, workshops, conferences, technical symposiums and model presentation competitions enrich their knowledge base with latest trends in technology. The student cell has been working for the college students to know very keenly the students problems. Different companies and clubs are formed for the college students. Through the various cultural and social activities of the clubs students can develop their latent talents and also link themselves with the welfare of society and environment.

Our institute has passed through its six successful academic years and I am delighted that our second batch of young Engineers has passed with flying colors and as a result of our mutual efforts many of them now working with reputed industry and institutes. I, on the behalf of whole SRPEC family hope and wish that our joint efforts may bear the fruit of success and our students may serve the nation and get well established in their life.

**Dr. A. H. Shah,**  
Principal

## Message



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

Smt. S. R. Patel Engineering College is going to publish its fourth volume of college souvenir "**Srujan-2015**" and as I informed it presents the glimpse of the activities carried out in the institute and all the achievements of the students and college.

Engineers play the most vital and important role in nation building. They create new inventions using best engineered technologies to make human life more comfortable, secure and productive. In modern times, nations which have rich engineering are flourishing economically and are providing better lives to their people. We have excellent potential to grow in diversified areas and excel in engineering fields. We need enormous number of engineers to write next story of success.

GTU works with full force to play a leading role in providing quality education and careers. We have identified the needs of modern engineering and technology for modern age students, with a vision and mission accompanying transparency, accountability and accessibility which keep us abreast with the current needs of Industry.

At the outset I send my greetings to the Management, staff members and students working sincerely for their fourth volume of college souvenir 2015. I hope this magazine will provide you the benchmark for continued improvement in overall development of the College.

**Dr. Akshai Aggarwal**

## Message



**Dr. M. N. Patel**  
Vice-Chancellor  
Gujarat University, Ahmedabad.

On the occasion of the publication of fourth volume of college souvenir "**Srujan-2015**", I would like to send my warmest gratitude and good wishes to all the students and members of the institute.

Smt. S. R. Patel Engineering College has done and continues to perform a most excellent service to the fraternity of knowledge seeker in the field of Engineering. On looking to the infrastructure site, the institute is having an excellent structure of building, classrooms and providing a state of the art apparatus and facilities to the students, which may indeed be a matter of proud for the management of institute.

I have also noted with great pleasure that the institute has consistently increased its scope of activities over the last year performs at most commendable standards.

I hope that institute will continue to be so industrious in its efforts and I wish every success in the future.

With affectionate thoughts.

**Dr. M. N. Patel**



## Message



### Dr. D. O. Shah

Director,  
Shah-Shulman Center for Surface Science and Nanotechnology,  
DDU, Nadiad, Gujarat

I am delighted with the experience I had in the National Conference organized at your Institute and first of all I congratulate the Management and Staff Members for the successful organization of the conference.

From my visit to your institute I observed that the institute always focuses on co-curricular activities along with the effective teaching for the development of the students in various dimensions. Moreover, it motivates and supports the student for their novel research activities which will help them in the future to establish themselves as leading technocrats of the country.

As I look ahead, I can visualize that the college will grow in pursuit of higher standards of teaching and research. It will continue to serve a significant role in technical education and in the service of the country.

I extend my warmest wishes to all members of the College for their fourth volume of College Souvenir "Srujan-2015". I am sure that the Institute will continue to maintain its excellence and character with great distinction.

**Dr. Dinesh O. Shah**

## Message



### Dr. Narottam Sahoo

Advisor and Member Secretary  
Gujarat Council on Science and Technology,  
Dept. of Science and Technology, Govt. of Gujarat

I am pleased to know that Smt. S. R. Patel Engineering College, Unjha is publishing its fourth volume of Souvenir "Srujan-2015".

Young students are source of creativity, energy and initiatives of dynamism along with engineering and social renewal. They are quick learner so if they are provided the opportunity they will certainly contribute to the economic and social development of nation.

SRPEC has been consistently working in that direction where students always learn new things and hence can survive with ease in this technically competitive era. So I really congratulate the management and all the staff members of the Institute for their prolific efforts.

Srujan-2015 will be the real and excellent platform for the students to showcase their creativity, innovation and artistic talent. I hope that the college shall continue with its efforts for all round development of its student as well as faculty members.

My best wishes for Souvenir and its upcoming issues.

**Dr. Narottam Sahoo**

## A word from Guardians...

First of all we would like to congratulate Smt. S. R. Patel Engineering College for their wonderful achievement in very short time. We would like to thanks Honorable Principal Madam, Board of Trustees, Secretary and all the faculty members of Institute for their support and inspiration to my daughter. I am feeling very happy and proud to share here my experience about institute which is having good infrastructure separate laboratories and highly qualified teachers.

This institute provides a very good platform like "Prakrust" for student to improve their skills. Each student gets an opportunity to show their skills. This institute hosted Intern Zonal Xitiz- 2014 and organized non-technical events like "Pratibha". Extra technical activities such as motivational lectures, seminars & workshop on new technologies are organized by the institute for the overall developments of students. Students are encouraged for social activities like "Blood Donation", Joy of Giving Day", "Tree Plantation", etc which helps them to grow socially. All these events and their schedules are well planned according to the students with proper information.

My daughter feels good and excited while going to the institute as she knows; she is going to learn something. She feels very much fresh with ideas in her mind after she came from the institute.

**Mr. Kantibhai Madhavlal Patel**  
(Guardian of Mansi Patel)



**Mansi Patel**  
4th Sem - CE  
Roll No. 13CE07



## Board of Governors

**Shri Rameshbhai H. Patel**  
Chairman

**Shri Chiragkumar R. Patel**  
Vice Chairman

**Shri Kalpeshkumar R. Patel**  
Executive Director

## Members

**Dr. M. N. Patel**  
Vice Chancellor,  
Gujarat University, Ahmedabad

**Shri Nayanbhai Parikh**  
Chairman,  
Multimedia Consultants Pvt. Ltd.  
Ahmedabad

**Dr. K. C. Thakar**  
Chairman  
KCT Consultancy Services,  
Mehsana

**Shri M. M. Salvi**  
Chartered Accountant  
Ahmedabad

**Shri B. J. Patel**  
Chairman  
Premier Engineering pvt.Ltd,  
Ahmedabad

**Prof. H. G. Rajput**  
Academic Adviser-SRPEC

**Dr. Ami H. Shah**  
Principal,  
Smt. S. R. Patel Engg. College,  
Dabhi-Unjha

**Shri Janak Khandwala**  
President  
Asso. of SFI Professional Inst.

## About Trust

Smt Sushilaben Rameshbhai Patel Charitable Trust (SRPCT) was established in the year 2008 for the purpose of carrying out various social services and establishing educational institutes to uplift the knowledge and skills of students to build their career. The trust is involved in lot of social activities to serve the society. The establishment of engineering institute in rural area is also one of the objectives of the trust. Renovation of primary school at Maktupur, promoting primary education, donating to hospitals, promoting and sponsoring mass marriages etc. are some of the activities carried out by the trust.

## Trust Activities

The trust successfully handles the activity named **“JIVIBA NU RASODU”**. It is named in the sweet memory of grandmother of the Honorable Chairman Shri Rameshbhai Patel. It provides Tiffins services on daily basis (two times in a day) free of cost to the people mostly who do not have scope to have the food because of the old age, physical inability, child age etc. The trust has concentrated the village Maktupur and nearby places and serving to needy people. Last year they have served them by sending 12,814 Tiffins. It is a great service to the society and an example of unconditional love.

The trust has taken one more initiative in the area of primary education which is now very well known as **“RAMESHDADA NU BHANTAR”**. It is working for the welfare of poor and vulnerable children. Children of poor families where both parents go out to work are the most vulnerable. They cannot have their primary education. Today, the trust supports such children from slums and villages around Mehsana district by sending them to nearby schools. They provide complete educational kit having educational material and thus motivate and inspire the children to start the primary education. It is highly convincing activity for students and staff of the college also. Students and staff have joined the hands to spread it on large spectrum by distributing 5000 kits to all needy children.

The trust had taken social project at the Muktidham, Sidhpur to implement the engineering knowledge of the students on a trial basis initially at the college and then successfully implemented it at Muktidham. At Muktidham, the chimnies were modified to promote the complete combustion of dead bodies by minimizing carbon content and thus saving the environment from pollution. Also, a great amount of wood is saved in this type of arrangement. The Project was successfully launched by the trust costing more than Rs 20 lakhs.



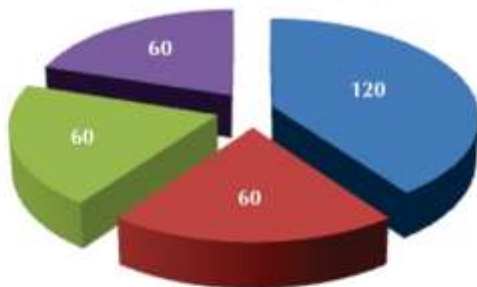
## About SRPEC

Smt. S. R. Patel Engineering College is 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 Engg. - 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.

It offers full-time bachelor engineering programs in the domains like Civil, Mechanical, Computer and Electronics and Communication Engineering. The institute also runs Master in Engineering Programs in the areas of Mechanical (Thermal) Engineering and Computer Engineering. It is affiliated to Gujarat Technological University, Ahmedabad and recognized by AICTE, New Delhi.

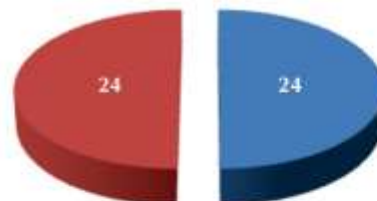
The institute vision to shape a bright future for human community through technical education. For igniting the overall development of our country, it aims to produce worthy and loyal citizens of a great country. Our students are enabled to excel in all values of Life and become Good Citizens. We continually improve the System, Infrastructure and Services to satisfy the Students, Parents, Industry and Society.

**Student Intake (BE)**



■ Mechanical ■ Civil ■ Electronics and Communication ■ Computer

**Student Intake (ME)**



■ Mechanical (Thermal) ■ Computer



## Details of College Infrastructure

### Area

Total area under college premises	:	12 acres,
Total ready building area	:	14143 square meters,
Instructional area ready	:	7508 square meters,
Administrative area	:	1083 square meters,
Area for basic amenities	:	969 square meters.

### Boy's Hostels

Rooms	:	22
Capacity	:	66 students

### Library

Number of Titles available	:	1934
Number of volumes available	:	7903
Total cost	:	₹ 24,13,068/-

Delnet Membership of more than 800 e-journals

E-journals software of IESTC

**Internet Facility** : Wifi Campus with 20 mbps Lease Line

## Laboratories

### Civil Engineering Department

Name of Laboratories	Cost (₹)
Surveying / Elements of Civil Engineering / Advanced Surveying	6,37,047/-
Concrete Technology	3,24,784/-
Mechanics of Solids	8,33,277/-
Advance Fluid Mechanics	6,22,499/-
Geotechnical Engineering – I & II	3,84,849/-
Highway Engineering	4,93,830/-
Environment Engineering/ Water & Waste Water Engineering	2,81,197/-
Earthquake Engineering	5,37,765/-
Engineering Geology	28,800/-
<b>Total Cost</b>	<b>41,43,988/-</b>



## Mechanical Engineering Department

Name of Laboratories	Cost (₹)
Elements of Mechanical Engineering	93,431/-
Workshop	2,66,141/-
Material Science and Metalurgy	1,68,889/-
Fluid Mechanics	2,52,379/-
Manufacturing Processes-I	9,65,196/-
Mechanical Measurement and Metrology	1,22,479/-
Fluid power Engineering	6,31,260/-
Manufacuring Processes-II	3,270/-
Theory of Machine	60,196/-
Refrigeration and Air Conditioning	4,77,162/-
Dynamics of Machines	1,49,968/-
Heat and Mass Transfer	4,41,501/-
Computer Aided Design	5,10,000/-
Internal Combustion Engines	7,26,588/-
Automobile Engineering	77,000/-
Computer Integrated Manufacturing	1,45,000/-
Conventional Power Engg.	5,339/-
CFD Lab	3,95,000/-
<b>Total Cost</b>	<b>54,90,801/-</b>

## Computer Engineering Department

Name of Laboratories	Cost ₹
Compiler of Design	5,61,600/-
Advanced Java Technology	5,61,600/-
Advanced Computing Technology	5,64,900/-
Mobile Computing	5,64,900/-
Computer Network	4,68,900/-
Design & Analysis of Algorithm	4,68,900/-
Operating System	4,56,900/-
Computer Programming & Utilization	4,56,900/-
Object Oriented Analysis & Design with UML	4,56,900/-
Communication Skills	6,98,214/-
<b>Total Cost</b>	<b>52,59,714/-</b>

## Electronics & Communication Engineering Department

Name of Laboratories	Cost (₹)
Elements of Electrical Engineering	1,84,085/-
Circuits and networks	12,285/-
Electronic Workshop	21,602/-
Basic Electronics	2,70,360/-
Digital Logic Design	17,640/-
Advance Electronics	25,389/-
Microprocessor and Interfacing	28,964/-
Communication Engineering	2,77,716/-
Control Theory	56,109/-
Integrated Circuit and Applications	43,700/-
Micro-controller and Interfacing	1,56,975/-
Electronic Communication	95,582/-
Electronic Measurements & Instrumentation	1,63,275/-
Applied Electronics	26,910/-
Optical Communication	93,804/-
Audio Video Systems	86,509/-
VLSI Technology and Design	1,18,125/-
Digital Communication	1,02,718/-
Antenna and Wave propagation	89,250/-
Microwave Engineering	92,400/-
Power Electronics	35,579/-
Wireless Communication	7,418/-
Embedded System	93,555/-
<b>Total Cost</b>	<b>21,59,950/-</b>





## Our Accolades...

**Last Year Mechanical Project : Amount sponsored by institute was ₹ 1,87,000/-**

**Title: An Improvement and Development of Mokshda Green Cremation System**

**Abstract:** In present era engineers are trying to reduce the use of conventional sources but there are still some places like Hindu Crematoria where we can't avoid using wood. No one is paying attention on reducing the carbon coming out from crematoria. We cannot change the rituals of Hindu religion but can modify it by using modern techniques. We selected this project to separate carbon content from exhaust of crematoria and to make cremation environment friendly. This project will reduce pollution up to 75% as compare to normal cremation. Green Cremation System decreases to time for cremation effect as well as wood.



**Patel Utsav (ME)**

**CPI-9.14**

**Congratulations for achieving 5<sup>th</sup> Rank in Mechanical Engineering in  
GTU Year 2014**

**Prize Rewarded by institute of ₹ 40,000/-**

## Our Accolades...

### *Pedagogical Innovation Award-2013*

The constant efforts made by Smt. S. R. Patel Engineering College has been recognized and recently acknowledged through two prestigious awards from GTU Innovation Council on 14<sup>th</sup> February 2013 during the occasion of 2<sup>nd</sup> Innovation Sankul Day celebration. Selected personals from the field of academics, industry and individuals associated with GTU Innovation Sankul were awarded for their remarkable innovation introduced and implemented in their respective field.



In the same context our honorable Chairman of SRPEC , Shri Rameshbhai H. Patel and Principal of college, Dr. Ami H. Shah were honored with **Pedagogical Innovation Award-2013** for their contributions as Best Trustee and Best Principal under Patan Innovation Sankul.

### *Our International Recongization*



Mr. Jay Patel and Mr. Mayursinh Vaghela from our Institute participated in the National Level Robo Championship organized at IIT Bombay and secured proud 1st Rank in the competition. As a result of this achievement a company named Technophillia sponsored one of the students Mr. Jay Patel to take part in the ROBO games Competition organized by Robotics Society of America at San Francisco, California, U.S.A. and he secured second rank making country and institute feel proud. The competition was enrolled in the Guinness Book of World Record as the largest Robo competition in the world.



## Scholarship

The institute every year provides scholarship to the needy students on the basis of the following criteria: The students merit rank throughout the year, Employee welfare scheme, Physical verification and economically background etc. In 2014 - 15 the institute provided scholarship to the following students:

Sr. No.	Student Name	Semester	Scholarship Amount (₹)
1	Patel Pooja Ratilal	3 <sup>rd</sup> & 4 <sup>th</sup>	34,500/-
2	Patel Tushar Bhagvanbhai	5 <sup>th</sup> & 6 <sup>th</sup>	58,500/-
3	Patel Sani Chandrakantbhai	7 <sup>th</sup> & 8 <sup>th</sup>	56,000/-
4	Patel Ketul Ramjibhai	7 <sup>th</sup> & 8 <sup>th</sup>	56,000/-
5	Patel Hardik Prahladbhai	7 <sup>th</sup> & 8 <sup>th</sup>	44,800/-
6	Desai Viram Ishvarbhai	7 <sup>th</sup> & 8 <sup>th</sup>	22,400/-
7	Mansuri Firoz Barkatbhai	3 <sup>rd</sup> & 4 <sup>th</sup>	29,000/-
8	Patel Jigar Jayeshbhai	3 <sup>rd</sup>	15,000/-
9	Rudani Rupsh Dilipbhai	5 <sup>th</sup> & 6 <sup>th</sup>	28,000/-
10	Soni Shriju Vinodchandra	5 <sup>th</sup> & 6 <sup>th</sup>	39,200/-
11	Patel Parth Hasmukhbhai	6 <sup>th</sup>	15,000/-
12	Prajapati Chetan Madhubhai	7 <sup>th</sup> & 8 <sup>th</sup>	13,800/-
13	Patel Darshan Jayantilal	8 <sup>th</sup>	9,100/-
14	Patel Bhavin Dahyabhai	2 <sup>nd</sup> , 3 <sup>rd</sup> & 4 <sup>th</sup>	1,18,500/-
15	Padhiyar Kishorkumar Babulal	5 <sup>th</sup>	18,900/-
16	Patel Chinmay Manubhai	5 <sup>th</sup> & 6 <sup>th</sup>	56,000/-
17	Mevada Keyur Rameshbhai	5 <sup>th</sup> & 6 <sup>th</sup>	56,000/-
18	Patel Darshan Hasmukhbhai	5 <sup>th</sup> & 6 <sup>th</sup>	16,800/-
19	Patel Jimmikummar Govindbhai	5 <sup>th</sup> & 6 <sup>th</sup>	16,800/-
20	Joshi Harsh Vishnubhai	5 <sup>th</sup> & 6 <sup>th</sup>	11,200/-
21	Patel Gopal Rameshbhai	5 <sup>th</sup> & 6 <sup>th</sup>	11,200/-
22	Patel Utkarsh Dineshbhai	5 <sup>th</sup> & 6 <sup>th</sup>	11,200/-
23	Patel Kiran Dilipbhai	1 <sup>st</sup> & 2 <sup>nd</sup>	68,000/-
24	Mehta Jinal Bhadreshbhai	1 <sup>st</sup> & 2 <sup>nd</sup>	68,000/-
25	Rabari Motibhai Valabhai	1 <sup>st</sup>	20,000/-
26	Padhiyar Vikas Sureshbhai	2 <sup>nd</sup>	20,400/-
27	Prajapati Nareshchaherbhai	4 <sup>th</sup>	30,500/-
28	Sathwara Chintan Dineshbhai	4 <sup>th</sup>	5,500/-
29	Patel Nirav Manubhai	1 <sup>st</sup> & 2 <sup>nd</sup>	68,000/-
30	Patel Shivani Pravinkumar	4 <sup>th</sup>	8,400/-
Total			10,26,700/-

*Congratulations!*

## Best Faculty Award ~ 2014

The institute every year rewards the best faculty on the basis of their performance and sincerity. The parameters which are considered for deciding award are teaching methodology, other academic responsibility taken up, co-curricular activities, extra lectures conducted, other work handled, FDPs, workshops, STTPs attended, number of paper presented, punctuality and regularity. Considering the above factors the Best Faculty award is given.

The amount rewarded to Prof. Ramesh N. Mevada has donated back to Smt. S. R. Patel Charitable Trust for charity work **"Rameshdada Nu Bhanter"**



**Prof. Ramesh N. Mevada**  
(Mechanical Department)  
(₹ 15,000/-)

## Best Student Award ~ 2014

The best student award is given to the all rounder student of the college. The indices consider for selecting the best student are academic result, discipline, regularity, punctuality, participation in technical events, co-academic activities and social contributions. Depending upon above parameter the award is given.



**Ms. Patel Urvashi** (8<sup>th</sup> CE)  
Roll No. 11CE26  
(₹ 11,000/-)

## Faculty Subject Award ~ 2013/14

Faculty Awards are given to deserving faculties on the basis of GTU result of the respective subjects according to following criterion :

- The Faculty whose subject's result secure higher in comparison to respective GTU result shall be awarded a prize of ₹ 1,000/- per percentage difference.
- Each faculty whose subject appears in Top Ten List of GTU shall be awarded a prize of ₹ 3,000/-.
- Each faculty whose subject acquires first rank in zone result shall be awarded a prize of ₹ 2,000/-.

Sr. No.	Faculty Name	Department	Award Amount (₹)
1	Ms. Khushbu Shadhavani	General	2,774/-
2	Mr. Jignesh P. Patel	General	19,247/-
3	Mr. Rajeshkumar	Mechanical Engineering	8,369/-
4	Mr. A. G. Barad	Mechanical Engineering	9,390/-
5	Mr. Adesh V. Panchal	Computer Engineering	8,215/-
6	Mr. Bhavin D. Patel	Mechanical Engineering	3,157/-
7	Mr. J. C. Patel	Computer Engineering	2,838/-
8	Mr. Jitendra R. Patel	E & C Engineering	8,885/-
9	Mr. Kaushik J. Patel	General	18,657/-
10	Mr. Manish D. Patel	Mechanical Engineering	6,044/-
11	Mr. Mitesh J. Patel	General	6,106/-
12	Mr. Nigam Shah	Computer Engineering	5,682/-
13	Mr. Nikunj M. Patel	Mechanical Engineering	1,060/-
14	Mr. Pramod Pawar	Mechanical Engineering	5,050/-
15	Mr. Rajesh V. Chaudhary	Mechanical Engineering	1,510/-
16	Mr. Ramesh N. Mevada	Mechanical Engineering	450/-
17	Mr. Yogesh B. Patel	Civil Engineering	10,559/-
18	Ms. Jayshree R. Patel	General	6,106/-
19	Ms. Ankita Patel	Civil Engineering	29,441/-
20	Ms. Darshana D. Patel	Civil Engineering	6,466/-
21	Ms. Dhara R. Patel	Computer Engineering	2,613/-
22	Ms. Nisha B. Patel	Computer Engineering	24,288/-
<b>Total</b>			<b>1,86,916/-</b>



*Congratulations!*

## Students' Awards ~ 2014

### Gold Medal

(Institute Topper)



**Patel Utsav (ME)**

CPI-9.14

Gold Medal + ₹ 40,000/-

### Silver Medals



**Soni Ankit (EC)**

CPI-8.4

Silver Medal + ₹ 25,000/-



**Prajapati Jigar (ME)**

CPI-8.35

Silver Medal + ₹ 18,000/-



**Patel Krunalben (CE)**

CPI-8.24

Silver Medal + ₹ 13,000/-

*Congratulations!*

## Institute Merit Award ~ 2014

On the basis of performance of the students in University examination and depending on the GTU result, deserving students of each year are encouraged with the following awards if they fulfill one or more of the criterion given below.

- A. For Rankers of the below:  
First: ₹ 20,000/-      Second: ₹ 15,000/-      Third: ₹ 11,000/-
- B. For Rankers of Each Branch of the Institute:  
First: ₹ 5,000/-      Second: ₹ 3,000/-      Third: ₹ 2,000/-
- C. In addition, each student appearing in to the Ten Rankers list of the GTU shall be awarded a prize of ₹ 15,000/- each
- D. The best student of the institute for the year shall be awarded a prize of ₹ 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.

### Sem - I & II



**Ronak Patel (Civil)**

1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Palak Patel (Civil)**

2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Kshama Patel (Civil)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



**Kaushik Thakor (ME)**

1<sup>st</sup> Institute Rank  
1<sup>st</sup> Branch Rank  
(₹ 25,000/-)



**Harish Dhukka (ME)**

3<sup>rd</sup> Institute Rank  
2<sup>nd</sup> Branch Rank  
(₹ 14,000/-)



**Jay Trivedi (ME)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



**Mansi Patel (CE)**  
2<sup>nd</sup> Institute Rank  
1<sup>st</sup> Branch Rank  
(₹ 20,000/-)



**Bhoomika Thakkar (CE)**  
2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Juiben Amin (CE)**  
3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)

## Sem - III & IV



**Dharmik Patel (Civil)**  
1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Viren Patel (Civil)**  
2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Vaibhav Patel (Civil)**  
3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



**Ravi Barot (ME)**  
1<sup>st</sup> Institute Rank  
1<sup>st</sup> Branch Rank  
(₹ 25,000/-)



**Keyur Mevada (ME)**  
2<sup>nd</sup> Institute Rank  
2<sup>nd</sup> Branch Rank  
(₹ 18,000/-)



**Nishant Raval (ME)**  
3<sup>rd</sup> Institute Rank  
3<sup>rd</sup> Branch Rank  
(₹ 13,000/-)



**Pooja Patel (CE)**  
1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Kajal Patel (CE)**  
2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Tushar Patel (CE)**  
3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



*Congratulations!*

## Sem - V & VI



**Siddharth Patel (Civil)**

1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Vijay Patel (Civil)**

2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Krunal Mevada (Civil)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



**Yunish Ghanchi (ME)**

1<sup>st</sup> Institute Rank  
1<sup>st</sup> Branch Rank  
(₹ 25,000/-)



**Jenish Patel (ME)**

2<sup>nd</sup> Institute Rank  
2<sup>nd</sup> Branch Rank  
(₹ 18,000/-)



**Kaushal Patel (ME)**

3<sup>rd</sup> Institute Rank  
3<sup>rd</sup> Branch Rank  
(₹ 13,000/-)



**Urvashi Patel (CE)**

1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Hardik Patel (CE)**

2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Hitesha Patel (CE)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



**Khayati Mevada (EC)**

1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Payal Patel (EC)**

2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Paresh Prjapati (EC)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)

*Congratulations!*

## Sem - VII & VIII



**Umesh Patel (Civil)**

1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Sanket Patel (Civil)**

2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Hemantsang Thakor (Civil)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



**Utsav Patel (ME)**

1<sup>st</sup> Institute Rank  
1<sup>st</sup> Branch Rank  
(₹ 40,000/-)



**Rushabh Patel (ME)**

3<sup>rd</sup> Institute Rank  
2<sup>nd</sup> Branch Rank  
(₹ 14,000/-)



**Jaydeep Thakkar (ME)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



**Binal Prajapati (CE)**

1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Ankit Prajapati (CE)**

2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Narendra Prajapati (CE)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)



**Parth Dave (EC)**

2<sup>nd</sup> Institute Rank  
1<sup>st</sup> Branch Rank  
(₹ 5,000/-)



**Maulik Patel (EC)**

2<sup>nd</sup> Branch Rank  
(₹ 3,000/-)



**Yakinben Patel (EC)**

3<sup>rd</sup> Branch Rank  
(₹ 2,000/-)

## Industrial / Field Training Award ~ 2014

Students of the 5<sup>th</sup> & 6<sup>th</sup> Semester take up various projects during Industrial Training these are supervised by internal and external guide, and evaluation sheet is provided for each student. Depending upon the evaluation of the guides the student's performance, awards are given to the first three scorers in each department.

Sem - V & VI

*Congratulations!*



**Siddharth Patel (Civil)**

1<sup>st</sup> Rank  
(₹ 5,000/-)



**Vivek Patel (Civil)**

2<sup>nd</sup> Rank  
(₹ 3,000/-)



**Karan Patel (ME)**

1<sup>st</sup> Rank  
(₹ 5,000/-)



**Harsh Dave (ME)**

2<sup>nd</sup> Rank  
(₹ 3,000/-)



**Dipak Nair (ME)**

3<sup>rd</sup> Rank  
(₹ 2,000/-)



**Urvashi Patel (CE)**

1<sup>st</sup> Rank  
(₹ 5,000/-)



**Unnati Patel (CE)**

2<sup>nd</sup> Rank  
(₹ 3,000/-)



**Sani Patel (CE)**

3<sup>rd</sup> Rank  
(₹ 2,000/-)



## Students' Seminar Awards ~ 2014

*Congratulations!*

Students' Seminar organizes for the 3rd to 6th Semester in each branch. During this students chose topics related to their disciplines, prepare presentation and present them. In order to motivate the students; institute has commenced a competition where students showcase their presentation skills and they are evaluated accordingly.

### Sem - III



**Harsh Patel (CE)**  
1<sup>st</sup> Rank ₹ 3,000/-



**Harish Dhukka (ME)**  
2<sup>nd</sup> Rank ₹ 2,000/-



**Kaushik Thakor (ME)**  
3<sup>rd</sup> Rank ₹ 1,000/-

### Sem - IV



**Jyotiba Shekhavat (CE)**  
1<sup>st</sup> Rank ₹ 3,000/-



**Keyur Mevada (ME)**  
2<sup>nd</sup> Rank ₹ 2,000/-



**Upal Patel (ME)**  
3<sup>rd</sup> Rank ₹ 1,000/-

### Sem - V



**Jyotiba Shekhavat (CE)**  
1<sup>st</sup> Rank ₹ 3,000/-



**Keyur Mevada (ME)**  
2<sup>nd</sup> Rank ₹ 2,000/-



**Akshay Shah (ME)**  
3<sup>rd</sup> Rank ₹ 1,000/-

### Sem - VI



**Urvashi Patel (CE)**  
1<sup>st</sup> Rank ₹ 3,000/-



**Bhupendra Shekhavat (CE)**  
2<sup>nd</sup> Rank ₹ 2,000/-



**Bhavik Patel (ME)**  
3<sup>rd</sup> Rank ₹ 1,000/-

*Congratulations!*

## Sports' Awards ~ 2014

During the college sports' week celebration in the Year 2014 as a part of "Funethnize", the following students were winners in the Boys and Girls categories. Some events were organized for both categories while some were specific for any one category.



**Divyesh Patel**  
1<sup>st</sup> Rank in Carrom



**Manish Prajapati**  
2<sup>nd</sup> Rank in Carrom



**Gaurav Panchal**  
1<sup>st</sup> Rank in Shot Put



**Mukesh Padhiyar**  
2<sup>nd</sup> Rank in Shot Put



**Gaurav Panchal**  
1<sup>st</sup> Rank in Badminton



**Maulik Nayi**  
2<sup>nd</sup> Rank in Badminton



**Jalap Paramar**  
1<sup>st</sup> Rank in Chess



**Bhaumik Joshi**  
2<sup>nd</sup> Rank in Chess



**Gaurav Panchal**  
1<sup>st</sup> Rank in Long Jump



**Balvant Thakor**  
2<sup>nd</sup> Rank in Long Jump



**Mukesh Padhiyar**  
1<sup>st</sup> Rank in 200m Race



**Rahul Panchal**  
2<sup>nd</sup> Rank in 200m Race



**Mukesh Padhiyar**  
1<sup>st</sup> Rank in 100m Race



**Akshay Shah**  
2<sup>nd</sup> Rank in 100m Race



*Congratulations!*

## Volley Ball Winner Team

Sem - VI Mechanical Engineering



## Cricket Winner Team

Sem - VI Mechanical Engineering





## Important Activities of the Year....

### XITIJ ~ 2014... GTU Inter Zonal Youth Festival

The Institute hosted GTU Inter Zonal Youth Festival "Xitij - 2014". The College Principal, Dr. Ami H. Shah took the charge of Organizing Chairman for the same. The festival was held on 5<sup>th</sup> and 6<sup>th</sup> October, 2014. Total 73 different degree colleges of all the five zones under the umbrella of GTU participated in this two days' festival. During the festival 24 various events under 5 major categories of Music, Dance, Theatre, Literature and Fine Arts were organized.

The opening ceremony of the festival started at 09:00 A.M. and to grace Shri. Yogesh Gadhvi, The Chairman, Sangeet & Natya Academy Gujarat State was present as the Chief Guest. The event was further honored by the kind presence of Capt. C. S. Sanghvi, Member Secretary, Board of Cultural Activities, GTU as Guests of Honor. The respected Chairman, Shri. Rameshbhai H. Patel and Principal Dr. Ami H. Shah of the college were there to honor the event.



The event was successfully executed with great deal of satisfaction to one and all and numerous participants from well-known colleges of the different zones revealed their underlying talent which mesmerized everyone present over there. The valedictory of the Youth festival was held on the evening of 6<sup>th</sup> October, 2014, at 6:00 P.M. and graced by The Chief Guest Dr. M. N. Patel, Vice Chancellor of Gujarat University & The Guest of Honor Dr. G. P. Vadodariya The Chairman of SRPEC Shri. Ramesh H. Patel, Principal of College and Organizing Chairman of Xitij - 2014, Gandhinagar Zone, Dr. Ami H. Shah and the Organizing Secretary, Mrs. Malini Roy Choudhury & Mrs. Jayshree Patel also preceded over the event. Some of the participants expressed their views regarding the organization of the whole event. They were over-whelmed by the smooth execution, perfect management, best hospitality and the exquisite food arrangement by the host institute. Finally the Trophies and certificates were given to all the rank holders of the various events and zonal champions of all the five categories

## Important Activities of the Year....

### Short Term Training Program (STTP) 2014...

In order to equip faculties to update their knowledge, 'Train the Trainer' program is conducted under which faculties are trained on various aspects by experts from different academic fronts having experimental knowledge and those who have created a mark through their teaching. These programs are arranged in semester breaks so that all the faculties can participate in the same. Last year, it was organized....

Date	Department	Topic
21/06/2014	Mechanical Engineering	"Advances in Refrigeration & Air-Conditioning"
12/05/2014 to 15/05/2014		"ANSYS 15.0"
29/11/2014 to 03/12/2014		"Product Development using Computational Fluid Dynamics"





## Important Activities round the Year....

### Prarambh... Orientation Program

The Orientation Program for the first year students "Prarambh-2014" was held on Sunday, 27<sup>th</sup> July 2014 and was blessed by Dr. Dilipbhai Patel as a Chief Guest. It witnessed dignitaries inspiring and wishing the fresher's a bright future. With new entrants this year, the program was successfully organized. It was well appreciated by the students and their parents who attended the function.

Dr. Dilipbhai Patel delivered his inspiring and thought provoking speech to the mass. He stressed over rational thinking and setting high ambitious goals. During the new entrants visit; senior students of the college had given introduction about well equipped and hi-tech laboratories with all the advanced machineries which are available in our laboratories and gave an informative demonstration of the same.





## Important Activities round the Year....

### Pratibha.... Unleashing the Unrevealed

The Institute dedicated two days to unleash the talents residing amongst the students hence they organized the event entitled "PRATIBHA" which was scheduled after the regular classes on 14<sup>th</sup> August and on 15<sup>th</sup> August since the early morning after hoisting the National Flag. 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.

On the Students uncovered their potential creativity in various competitions as: Debate, Logo Designing, Documentary, Drawing, Cartooning, Tattoo Designing, Elocution, Light Vocal (Indian), Extempore, Instrument Playing, Quiz, Model Making, Poster Making, Collage Designing and Clay Modeling. Institute appreciated the efforts of the students by honoring them with awards and giving them preference to participate in the GTU youth festival.



## Important Activities round the Year....

### Teacher's Day

Teacher's Day was celebrated with great enthusiasm on 5<sup>th</sup> September 2014. The whole event of that day was mainly planned and organized by the students of the college. Total 71 students from various semester and branches efficiently performed the task of a teacher. Their performance was being evaluated by the teams of experts comprised by college faculties. During the prize distribution ceremony students who played the role of a teacher shared their noteworthy experiences. Depending on the evaluation-reports of the participant Student-Faculty, Semester wise awards were given to first, second and third position holders.



#### Winners of the Teacher's Day

**1<sup>st</sup> Rank** : Mitesh Nayi, Keyur Mevada, Mansi Patel, Dhruv Patel

**2<sup>nd</sup> Rank** : Hiren Parmar, Vaibhav Modi, Chintan Sathwara, Divy Patel

**3<sup>rd</sup> Rank** : Ruchit Patel, Jyoti Shekhavat, Rohan Thakkar, Mehul Chauhan



## Important Activities round the Year....

### Samarpan... A Blood Donation Camp

On 17<sup>th</sup> September 2014 a Blood Donation Camp was organized in the institute. The Blood Donation Camp was organized in association with Mehsana Jesis Charitable Trust and all the medical support was arranged by Sarvoday Voluntary Blood Bank Members.

Total 165 units of blood were donated during the camp. College Management had distributed gift among students and faculties during the event around ₹ 20,000/-. College Management and Student Volunteers did a commendable job in smooth and successful organization of the event.





## Important Activities round the Year....

### Thalassemia Test

A special camp was organized at Smt. S. R. Patel Engineering College, Dabhi-Unjha on 25<sup>th</sup> September, 2014 for Thalassemia test of all the students and the staffs of the college. The camp was totally free of cost for them. The camp was organized in association with the Indian Red-Cross Society, Ahmedabad. They were specially invited for collection of blood samples for testing. Prior to the organization of Thalassemia Testing Camp the importance of Thalassemia Testing was also elaborated as it is the only measure of preventing spreading of this disorder.

The whole event was well organized and controlled by the faculties of the college. The camp was another evidence of the commendable efforts done by the college for all round development of their students and staffs and taking up regular measures of social cause. A large number of students were present during the camp for getting their blood tested.





## Important Activities round the Year....

### Ramzat... A Garba Fiesta

A vibrating Raas-Garba event "Ramzat-2014" was organized on the 7<sup>th</sup> October, 2014 for Navratri Celebration among students and the staffs of the college. The objective of the event was to revive the feel of the rich traditional and cultural values among our new generation. Special Awards for Best Dressing and Best Performance to Student and Faculty up to ₹ 5,000/- was given to various participants to encourage their efforts.





## Important Activities round the Year....

### Science Fair

The institute organizes Science Fair with the aim of bringing together the students of 11<sup>th</sup> & 12<sup>th</sup> science through different competitive events to encourage these junior innovators to enhance their technical and edifice skills.

So this year Science Fair, Third in the series, was organized on 14<sup>th</sup> December 2014 at the college campus. The Chief Guest of the event Mr. Sanjay Raval, and invited guest Shri Gordhanbhai Patel along with the other dignitaries did the inauguration and provided their blessings to the event. Total number of 235 students along with 36 teachers from various reputed schools of North Gujarat region uncovered their technological competence through models and posters. The efforts of the participants were appreciated by honoring the winners of different events with the prizes of total ₹ 11,900/-.

The noteworthy segment of the event was the motivational lecture delivered by the Chief Guest of the event Mr. Sanjay Raval. He had totally mesmerized the participants by showing them new and true way of living life.

Valedictory function was held on the same day at 5:00 P.M. with the auspicious presence of Dr. A. H. Shah (Principal, SRPEC) and Prof. Jignesh Patel (Co-Coordinator of Event)



## Important Activities round the Year....

### NCIET... The 2<sup>nd</sup> National Conference...

In continuation with the grand success of National conference last year our institute organized its second "National Conference on Innovative and Emerging Technologies (NCIET-2014)" during 3<sup>rd</sup> January, 2014. The primary goal of the conference was to bring together the nationwide leading researchers, engineers and academicians interested together to exchange their innovative ideas in the fields of technology for futuristic development and human welfare. The conference was formally inaugurated by the Chief Guest Dr. Dinesh O. Shah along with the key note speakers from the most reputed technical institutes of the nation such as IIT Roorkee, IIT Kharagpur, IIT Gandhinagar. About 89 research papers were received from active researchers and scholars in academia and industries in the following tracks:

- Information Technology/Computer Science and Engineering
- Electronics and Communication Engineering
- Mechanical Engineering
- Civil Engineering



After thorough review, 60 papers were selected for oral presentation and were published in the college proceeding. The valedictory function was arranged on 3<sup>rd</sup> January evening; Mr. P. K. Laheri- a retired IAS officer graced the function as a chief guest. Dr. R. Jayagandhan and other well-known dignitaries were also present to honor the function. Finally awards were given to the participants by chief guest, chairman and other invited dignitaries. In student category two papers were awarded as best with prize of ₹ 8,000/- and second best with prize amount of ₹ 5,000/- in each track. Similarly track wise one best paper was awarded with prize amount of ₹ 5,000/- under professional category. Participant registration fees were refunded for all the students who had presented their papers in NCIET 2014.



## Important Activities round the Year....

### Funethniz... A Cultural and Sports Festival

Cultural and sports activities are organized every year in the form of Funethniz. The Cultural and sports festival inaugurated on 27<sup>th</sup> February 2014 and ends up on 28<sup>th</sup> February 2014 late evening. During this most entertaining time many sports activities are arranged where all the students and the employees of the institute take part with true sportsmanship. In the cultural event students unleash their latent talent in various fields as music, dance and theater. The whole event fills the air of the campus with abundant zeal and spirit.





## Important Activities round the Year....

### Prayag... Alumni Meet

'Prayag' is a name of a place based near Allahabad. The event was organized on 27<sup>th</sup> February, 2014 from morning to afternoon. We give the name 'Prayag' the alumni meet. This event also witnessed meeting of two substantial bodies of the institute i.e. alumni and Final year students who are going to graduate in 2014. It aimed to provide the platform to the final year students to take the advantage of the alumni. Alumni shared their invaluable experience of post graduate life. Honourable principal Dr. A. H. Shah shared her words of wisdom and focused on the aim of the event by her valuable speech.

#### Alumni Speaks...

"Students who wish to study further should make a wise decision over selecting the institute..."

- Himalay Patel

"Students should focus on skills development rather than concentrating much on academic results..."

- Nagji Rajput



## Important Activities round the Year....

### Annual Day

Institute organized Annual Day to award the varied achiever of the past academic year. Annual Day held on 27<sup>th</sup> February 2014 at 03:30 P.M. by lighting the lamp in the auspicious presence of Honourable Chief Guest Mr. Anilbhai Patel (Chairman of Apollo Industry), and Dr. M. N. Patel (Vice Chancellor of Gujarat University). Our patrons of the event were Shri R. H. Patel (Chairman of SRPEC), Shri K. R. Patel (Executive Director of SRPEC), Dr. A. H. Shah (Principal of SRPEC) & Prof. Jayshree R. Patel (Co-ordinator of the event). The Parents were called on the stage for distributing the awards to the winners.





## Important Activities round the Year....

### Joy of Sharing Day...

Understanding our responsibilities towards the society; the trust and institute organize “**Joy of Sharing Day**” on 01/03/2015 but this year we have organized whole week from 01/03/2015 to 07/03/2015. With this noble aim of helping the poor and needy the trust initiated new step ahead as “**Rameshdada Nu Bhanter**” for primary education. This initiative is working for the welfare of poor and vulnerable children.

Various articles of daily use clothes, toys, crockery and utensils etc. had been centrally collected and than distributed to mark this day. It gives deep inner contentment to all the persons who directly or indirectly contribute to this noble cause.



## Important Activities round the Year....

### Prakrusht 2014.... a Technical Symposium

The 4<sup>th</sup> National Level Technical Symposium entitled Prakrusht-2014 was conducted on 11<sup>th</sup> April, 2014 with the aspiration of providing a common platform to the students of engineering where they can not only show case their knowledge but can enhance their technical and edifice skills. Other than the traditional crowd-pulling events, Prakrusht-2014 put forward many new initiatives and interactive events.

This was ensured by having competitions like Robo Race, Robo Fight, Acqua Robo, Paper Presentation, Technical Documentary, Circuit Debugging, Scissor Liftor, Simulation Based Innovative Application, Web Designing, Relay Programming, Civil - O – Tress, Structure, Pro - E – Modelling. All the events, like always, saw a huge turnout both in terms of passionate participants and a lively audience. Almost everyone who attended Prakrust-2014 would agree that Lecture Series was indeed at its highest point. The effort that had been put by staff members, management and students was truly praiseworthy.

Inauguration function was held on 11<sup>th</sup> April 2014 at 9:30 am by lighting the lamp in the auspicious presence of honorable Guest of Honor Mr. R. H. Rajput and Chief Guest Mr. Narottam Sahoo, Mr. R. H. Patel (Chairman, SRPEC), Dr. A. H. Shah (Principal, SRPEC), Prof. D. M. Patel (Co-coordinator, Prakrust - 2014), & Mr. Hitarth Patel (President) (Prakrust - 2014).



Valedictory function was held on the same day at 6:00 p.m. with the auspicious presence of Shri, R. H. Patel (Chairman, SRPEC), Dr. A. H. Shah (Principal, SRPEC), Prof. R. N. Mevada (HOD of Mechanical Dept.), Prof. J. R. Patel (Co-ordinator of Prakrust - 2014) and Mr. Nirmal Khamar (Student Vice President of Prakrust - 2014).



## Important Activities round the Year....

### Prasthan.... A Farewell Party

A grand Farewell Party was organized for going to pass-out students of 2010-14 batch. It Inaugurated on 8<sup>th</sup> June 2014, at 12:00 P.M. and ends up on 9<sup>th</sup> June 2014, at 10:00 A.M. (two days and one night) stayed at Shanku Water Park, Mehsana where Students and Staff members spent one of the most memorable and fantastic day of their life. They enjoyed water rides for fun, delicious food throughout the day.

At night all together rock the floor in the DJ party and later took luscious dinner. Then after all assembled in the garden and blessed with the emotional and motivational address delivered by Principal Madam Dr. A. H. Shah. Towards the end of the function students shared their unforgettable experiences and showed their gratitude by presenting mementos to Principal Madam and Teachers of different departments.





## Important Activities round the Year....

### Motivational Lecture

Every year we organize two time Motivational Lectures for all the students and faculty to aware them about their internal and external personality Development. For that we concentrate on 'Dynamics of personality development', 'The need & importance of 'can do' outlook', 'How to become high achiever' and 'Identifying the Hidden you' etc.

We organize this type of lectures as per the students present requirement and their over all professional development. In 2014, We invited Dr. Mehul G. Thakkar from Navsari Agriculture University and other motivator was Shri Shaileshbhai Rathod, he is follower of Shri Shri Ravishankar Maharaj.





## Beyond Academics... the complimentary side

### Skill and Employment Enhancement Program...

#### Training Program

In this era of competition, students are expected to build an outstanding personality who is not only good with the academic curriculum but also can prove themselves as 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 Examinations	Through out semester
Preparation For Competitive Exam (GPSC, UGC etc)	Through out semester
Industry Expert's Talk	Twice

#### Semester VII

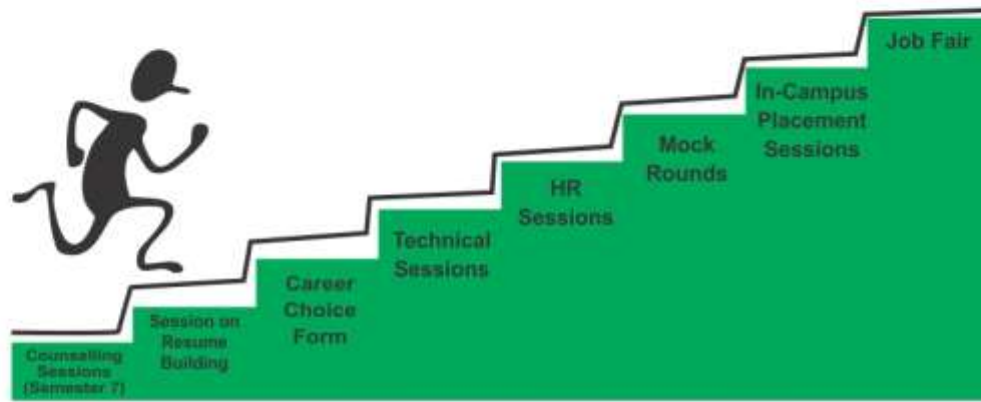
Activity	No. of times in a Semester
Industrial Visits	Minimum once
Industry Expert's Talk	Twice
Preparation For GATE Examinations	Through out semester
Preparation For Competitive Exam (GPSC, UGC etc)	Through out semester
Innovative Projects*	Through out semester
Professional Resume Making*	Once (every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

#### Semester VII

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*	

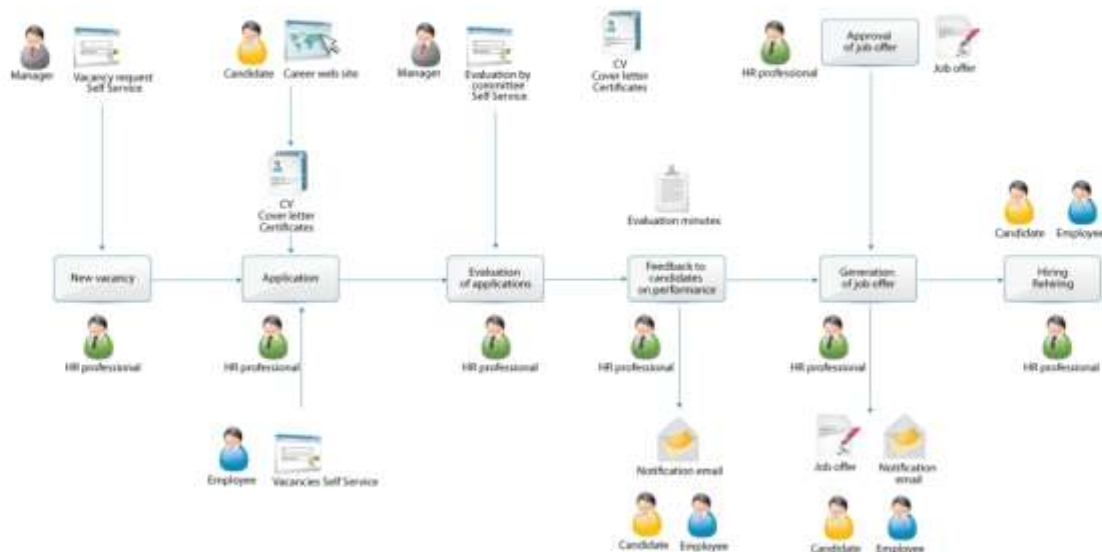
## Training Delivery Model

Understanding the training needs of the students, various stages of training delivery are designed which carries various activities. Depending of the type of training, tentative schedule and list of experts is defined and executed accordingly.



## Recruitment Model

To streamline the procedure of campus placements the institute has identified sequential process and follows according to the need of the industry and type of candidates required.





## Innovative Projects Sponsored by Institute to 4<sup>th</sup> Year Students...

The students of 4<sup>th</sup> Year had taken up Industry defined or User defined projects as a part of their curriculum. These projects are supervised by internal and external guide, and evaluation sheet is provided for each student. Depending upon the evaluation of the guides regarding the student's performance, awards are given to first three scorers in each department. The list of important projects taken up by the 4<sup>th</sup> Year students are given below.

### Civil Engineering

#### 1. Title: Toll Fixation- A Case Study of Mehsana To Radhanpur Highway (Sh55)

**Abstract:** Toll Rates and traffic volume (or demand) are the two major factor affecting revenue as well as investment strategies on the Toll roads. Although it has been experiencing dramatic growth in its highway system during the past 10 years, There has been lack of understanding in maintaining and operating its toll roads. Since the most of freeways in India are Toll roads. It is necessary to established the methodology for the toll road system based on characteristics of India's transportation system and social economy. A methodology to determine Toll rates for India's Toll roads system is introduced. Factor affecting the Toll Rates are analyzed.

**Student Name :** Krunal P. Mevada      Mulji J. Chaudharii  
                          Vaiibhav A. Patel      Karan J. Chandarana

**Guided by :** Prof. Hiren V. Patel

#### 2. Title: Improvement of Engineering Properties of Expansive soil by using Bagasse ash and Groundnut Shell Ash

**Abstract:-** Black cotton soil is one of the major regional soils in India, covering an area of about 3.0 lakh sq.km. Black cotton soil or the expansive soils in India are highly problematic, as they swell on absorption of water and shrink on evaporation thereof. Expansive soils are problematic soil because of their inherent potential to undergo volume change corresponding to change in the moisture regime. When they imbibe water during monsoon, they expand and on evaporation thereof in summer, they shrink. Because of these alternate swelling and shrinkage, structures founded on them are severally damaged. The annual cost of damage to the civil engineering structure is estimated at thousands of crores. To overcome this, property of soil must be improved by artificial means known as 'soil stabilization'. It is a technique which improvise one of more soil properties by mechanical, cementing and chemical use. Today world is facing serious problem of disposal of agricultural waste. South Gujarat is popular for production of sugarcane is large quantity. Sugar factories produces waste after extraction of sugar an in machines that waste when burnt, the resultant ash is known as 'Bagasse ash'. Saurashtra of Gujarat is popular for production of ground nut is large quantity. ground nut factories produce waste after extraction of ground nut an in machines that waste when burnt, the resultant ash is known as 'Ground nut shell ash'. It is a fibrous material with presence of silica ( $\text{SiO}_2$ ) and can be used to improve the properties of black cotton soil.

**Student Name :** Patel Vijay M.      Patel Vivek S.  
                          Patel Sahil B.      Patel Sanket J.

**Guided by :** Prof. Amar Y. Salariya

## Mechanical Engineering

### 1. Title: Design and Development of Semi Automatic Agricultural Product for The Sorting Out Potatoes According To Size

**Abstract:** Our final project is based on sorting and grading in various sizes of potatoes. To realize project and extensive research and study have to be done on various different size of potatoes during cropping condition. It's synchronization with various hardware components like sieves, a.c motor, connecting rod, gear etc.

Potatoes sizing and grading prototype machine sorting out various different size of potatoes by using a.c motor speed reduction gear, connecting rod, sieves are constructed. ac motor gives a power to reduce speed by gear train to rotary motion to reciprocating motion by crank and connecting rod to connected the sieves and sieves are reciprocate. Potato feed n to the hopper on sieves and sorting out a different diameter by different diameter of sieves.

**Student Name :** Vyas Sanket D. Faruki Bashiruddin A.  
Patel Harshit D. Gami Vipul A.  
**Guided by :** Prof. M. D. Patel

### 2. Title: Design And Development of Automatic Wheelchair and Bed For Old-Age Home

**Abstract:-** The need for automatic Wheelchair is especially present in care of immovable people (people with persistent vegetative state, paraplegia, stroke and spinal cord injuries), where the care requires a lot of time and manpower. This report is the result of a design and development of an automated multi-functional Wheelchair that would perform all functions present in today's Wheelchair (Wheelchair height adjusting, trendelenburg (anti-shock) and anti-trendelenburg position adjusting, lateral bed tilting, inclination of head section adjusting and protective sidewalls lifting) as well as new functions of appropriate Wheelchair sections (each leg positions adjusting). It is expected that this new automatic Wheelchair would enable people's better medical care, and would greatly reduce time and manpower to the old-age home staff.

**Student Name :** Patel Vishal N. Joshi Mohitkumar J.  
Bhavsar Deep S. Prajapati Mehul P.  
Patel Hirenkumar M. Shah Rushabh J.  
Patel Jimmy R. Patel Hardik B.  
**Guided by :** Prof. J. B. Patel Prof. H. C. Patel

## Computer Engineering

### 1. Title: E - Conferencing

**Abstract:** E-Conferencing Supports Audio Sharing, Public and Private Chat, Desktop Sharing Online Meeting. This System Is For Online Learning, Meetings & Online Conferencing & Online Workshops. It Enables You To Share Documents, Chat, Audio And Your Desktop. It Can Also Record Sessions for Later Playback.

**Student Name :** Halani Mitesh J. Swami Krutarth A.  
**Guided by :** Prof. Gaurav Bhardhwaj



## 2. Title: Face Recognition System

**Abstract:-** Face reorganization have been fast growing, challenging and interesting area in real time application. This system detects the faces in a picture taken by webcam and these images are checked with training image dataset based on eigen features & characterize the image.

**Student Name :** Patel Jay K. Swami Parasgiri A.

Master Bhavin M. Patil Nikhil R.

**Guided by :** Prof. Gaurav Bhardhwaj

## EC Department

### 1. Title: Wireless Health Monitoring System

**Abstract:** In this project, a wireless communication system is designed and developed for remote patient monitoring. In this proposed system transmitting module continuously reads patient's body temperature through a digital temperature sensor, displays it on the LCD screen and sends it to the microcontroller which transmits the encoded serial data over the air by RF (radio frequency) through an RF module. At the receiving end, a receiver is used to receive the data, decode it and feed it to another microcontroller which is then displayed on an LCD screen. The receiver module is kept in the doctor's chamber to continuously display the patient's body temperature wirelessly.

**Student Name :** Joshi Saurabh K. Chauhan Ripal M.

Patel Milap B.

**Guided by :** Prof. S. B. Patel

### 2. Title: To Control Boiler Operation Using PLC

**Abstract:-** Over the years the demand for high quality, greater efficiency and automated machines has increased in the industrial sectors and power plants. These are require continuous controls. There are possibilities of errors at measuring and various stages involved with human workers and also the lack of few features of microcontrollers. Thus this project takes an Operation to Control Boiler.

PLC (Programmable Logic Controller) is also used for the internal storage of instruction for the implementing function such as logic, sequencing, timing, counting and arithmetic to control through digital or analog input/output modules various types of machines processes.

PLC (Programmable Logic Controller) control that is applied to the boiler which will increase high quality and greater efficiency. This system control boiler's temperature and pressure and volume via different sensors which provide input to PLC. The output of PLC controls the boiler temperature and pressure and gives out the user required volume of steam.

**Student Name :** Ruchit M. Patel Priyanka Thakkar

**Guided by :** Prof. R. P. Patel

## Field Training...

While the industrial visits provides an overall 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. All the expenses during these training are sponsored by the college management and no financial burden put on the students. These visits are free of cost to the students including all the travel and stay expenses.

## Mechanical Engineering...

Sr. No.	Industry Name	No. of Student	Duration	Cost (₹) Sponsored by Institute
1	Heavy Metal & Tubes Ltd.	4	15 Days	5,530/-
2	Birla Cellulosic, Birladham	1	15 Days	1,800/-
3	Shree Kuwarika Industries	4	15 Days	5,860/-
4	Express Lift Ltd.	4	15 Days	5,510/-
5	Heavy Metal & Tubes Ltd.	4	15 Days	5,450/-
6	Shivam Engineering	4	15 Days	5,810/-
7	Kalpataru Power Transmission Ltd.	3	15 Days	3,990/-
8	ONGC	6	15 Day	11,200/-
9	P I Industries Ltd.	1	15 Days	1,300/-
10	Lignite Thermal Power Station	4	15 Days	7,680/-
11	Ammann Appolo	2	15 Days	2,560/-
12	Jay Vishwkarma Engineering Works	4	15 Days	5,550/-
13	Kudrat Engineering	3	15 Days	4,450/-
14	Hi Tech Industries	4	15 Days	5,520/-
15	Sandvik Asia Ltd.	3	15 Days	4,040/-
16	Maxim Tubes Co Pvt Ltd.	4	15 Days	5,240/-
17	Ammann Appolo.	3	15 Days	3,840/-
18	Siyavar Steel Industries	2	15 Days	1,680/-



Sr. No.	Industry Name	No. of Student	Duration	Cost (₹) Sponsored by Institute
19	Ammann Appolo Pvt Ltd.	1	15 Days	1,050/-
20	Paluga Pump & Pvt Ltd.	4	15 Days	6,280/-
21	Bajarang Krupa Powder Coating	4	15 Days	5,676/-
22	Gokul Refoils & Solvent Ltd.	2	15 Days	1,210/-
23	Windsor Machine	5	15 Days	2,690/-
24	Pilot Industries	5	15 Days	5,246/-
25	Mazda Pvt. Ltd.	4	15 Days	6,090/-
26	Mahalaxmi Industries	8	15 Days	9,550/-
27	Ammann Appolo Pvt Ltd.	4	15 Days	4,890/-
28	Nirmik Fabric	4	15 Days	5,420/-
29	Rajratna Metal Industries Ltd.	4	15 Days	5,230/-
30	Arvind Limited	6	15 Days	7,320/-
31	Audi Workshop	2	15 Days	2,100/-
32	Essar Steel India Ltd.	1	15 Days	2,500/-
33	Windsor Machines Ltd.	4	15 Days	5,550/-
34	Ahmedabad Engineers Pvt. Ltd.	4	15 Days	7,650/-
35	Siddhi Vinayak Micron	4	15 Days	4,200/-
36	Jindal Saw Ltd.	1	15 Days	2,250/-
37	IFFCCO	1	15 Days	1,950/-
38	IOCL	2	15 Days	2,200/-



## Computer Engineering...

Sr. No.	Industry Name	No. of Students	Duration	Cost (₹) Sponsored by Institute
1	Technobright Solution	9	30 days	15,400/-
2	Data Post Solutions	6	30 days	5,283/-
3	CK-IICT	5	30 days	11,000/-
4	Aurosoft Technologies	2	30 days	2,950/-
5	CMC Ltd.	2	30 days	3,200/-
6	Keen Softwares	2	30 days	3,333/-
7	Softtech Infosys	8	30 days	11,383/-
8	Horizon Technology	5	30 days	6,094/-
9	Compindia Technologies	5	30 days	7,504/-
10	Web Education Services	3	30 days	4,482/-
11	Data Post Solutions	1	30 days	1,870/-

## Civil Engineering...

Sr. No.	Industry Name	No. of Students	Duration	Cost (₹) Sponsored by Institute
1	Ajay Construction Pvt.Ltd.	4	15 days	2,400/-
2	Ajay Construction Pvt.Ltd.	5	15 days	3,000/-
3	Vijay Gehlot & Associates	2	15 days	1,200/-
4	Hardware & tools Machinery Pvt. Ltd.	2	15 days	2,200/-
5	Ajay Engineers & Infrastructure Pvt. Ltd.	4	15 days	2,055/-
6	Rachna construction Co.	4	15 days	5,976/-
7	Ajay Engineers & Infrastructure Pvt. Ltd.	4	15 days	1,800/-
8	Shree Umiya Construction Co.	4	15 days	2,765/-
9	Guru Developers	2	15 days	2,400/-
10	Vikash Construction & Co.	8	15 days	3,450/-
11	Pyramid Design	4	15 days	3,784/-
12	Nidhi construction Co.	4	15 days	4,800/-
13	Maa Amba Developers	4	15 days	3,450/-
14	Joyos Hubtown	5	15 days	5,848/-
15	Bhagawati Infrastructure	4	15 days	5,008/-



## Industrial Visit

### Computer Engineering...

Sr. No.	Industry Name	No. of Students	Duration	Semester	Cost (₹) Sponsored by Institute
1	Dots & Coms	42	1 Day	7 <sup>th</sup>	5,090/-
2	BISAG	38	1 Day	3 <sup>rd</sup>	5,400/-
3	Compindia Technology	25	1 Day	5 <sup>th</sup>	5,600/-
4	RTTC,Ahmedabad	34	1 Day	8 <sup>th</sup>	6,500/-
5	Compindia Technology	25	1 Day	6 <sup>th</sup>	5,600/-
6	BISAG	22	1 Day	4 <sup>th</sup>	5,100/-
7	Dots & Coms	28	1 Day	6 <sup>th</sup>	11,160/-
8	RTTC	27	1 Day	4 <sup>th</sup>	5,400/-

### Mechanical Engineering...

Sr. No.	Industry Name	No. of Students	Duration	Semester	Cost (₹) Sponsored by Institute
1	Adani Foundation,Mundra	152	3 Days	7 <sup>th</sup>	18,060/-
2	Amman Apollo India Pvt Ltd.	150	1 Day	5 <sup>th</sup>	11,000/-
3	Banas Dairy,Palanpur	97	2 Days	3 <sup>rd</sup>	9,000/-
4	Elecon india,Anand	65	1 Day	8 <sup>th</sup>	12,992/-
5	Gujarat Solar Park,Charanka	150	2 Days	6 <sup>th</sup>	19,680/-
6	Banas Dairy,Palanpur	141	2 Days	4 <sup>th</sup>	13,000/-
7	Electrotherm , Indus University	10	1 Day	ME	35,060/-

### Electronics & Communication...

Sr. No.	Industry Name	No. of Students	Duration	Semester	Cost (₹) Sponsored by Institute
1	Amtech electronics India Ltd.	30	1 Day	7 <sup>th</sup>	6,560/-
2	ACME Solar Technology Pvt Ltd	49	1 Day	8 <sup>th</sup>	11,178/-
3	Sahajanand Laser Technology	30	1 Day	6 <sup>th</sup>	5,400/-

## Civil Engineering...

Sr. No.	Industry Name	No. of Students	Duration	Semester	Cost (₹) Sponsored by Institute
1	State Water data Centre	62	1 Day	5 <sup>th</sup>	7,390/-
2	Adani Foundation	152	3 Days	5 <sup>th</sup> & 7 <sup>th</sup>	18,438/-
3	Sardar Sarovar Dam	52	1 Day	8 <sup>th</sup>	17,420/-
4	Kandala Port	55	1 Day	7 <sup>th</sup>	15,600/-
5	Railway Staff College	41	1 Day	5 <sup>th</sup>	6,700/-
6	Radhe Galaxy Pvt.Ltd	50	1 Day	4 <sup>th</sup>	2,000/-
7	Tirupati Sarjan pvt. Ltd.	41	1 Day	6 <sup>th</sup>	7,500/-
8	Ahmedabd I.D.college	62	1 Day	7 <sup>th</sup>	3,500/-

## Workshop

## Computer Engineering...

Sr. No.	Workshop Name	No. of Students	Duration	Semester	Cost (₹) Sponsored by Institute
1	Anriod Application Development	42	3 Days	7 <sup>th</sup>	14,000/-
2	Ethical Hacking	155	1 Day	All CE	2,000/-

## Civil Engineering...

Sr. No.	Workshop Name	No. of Students	Duration	Semester	Cost (₹) Sponsored by Institute
1	Total Station & Instrument Practice	117	2 Days	4 <sup>th</sup> & 6 <sup>th</sup>	2,000/-
2	Software (Microsoft Excel, Autocad)	117	2 Days	4 <sup>th</sup> & 6 <sup>th</sup>	2,000/-
3	Laying Out of Building Plan or Foundation Trenches	62	1 Day	7 <sup>th</sup> & 3 <sup>rd</sup>	2,000/-
4	Traffic Volume Study and Spot Speed Study	58	1 Day	5 <sup>th</sup>	2,564/-



## Electronics & Communication...

Sr. No.	Workshop Name	No. of Students	Duration	Semester	Cost (₹) Sponsored by Institute
1	Embedded Syatem	29	3 Days	7 <sup>th</sup>	2,000/-

## Mechanical Engineering...

Sr. No.	Workshop Name	No. of Students	Duration	Semester	Cost (₹) Sponsored by Institute
1	Patent Awareness	130	1 Day	3 <sup>rd</sup>	2,000/-
2	PLC	40	1 Day	5 <sup>th</sup>	5,000/-
3	Creo 2.0	88	2 Days	6 <sup>th</sup> & 8 <sup>th</sup>	2,000/-
4	MS Office	103	2 Days	4 <sup>th</sup>	2,000/-

## Expert Lecture

## Mechanical Engineering...

Sr. No.	Expert Lecture topic	No. of Students	Date	Semester	Cost (₹) Sponsored by Institute
1	Application of different software for industry and research works	130	26/3/2014	6 <sup>th</sup>	2,000/-
2	Unconventional Production Technology	175	28/04/2014	4 <sup>th</sup>	2,500/-
3	Application of different software for 2D and 3D modeelling	170	26/3/2014	4 <sup>th</sup>	2,000/-
4	Advances in Mechanical Engineering in Future	123	09-08-14	7 <sup>th</sup>	3,760/-
5	Fundamental of Fluid Mechanics and Dynamic Compressor	76	28/08/2014	5 <sup>th</sup>	3,920/-
6	Cooling Circuit in Thermal Power Plant: Design Cosnideration of Cooling Towers & Condensers	102	17/10/2014	5 <sup>th</sup>	4,304/-

## Computer Engineering...

Sr. No.	Expert Lecture topic	No. of Students	Date	Semester	Cost (₹) Sponsored by Institute
1	Database Management Syatem	22	10-11-14	3 <sup>rd</sup>	2,696/-
2	Web Designing	44	26/8/2014	7 <sup>th</sup>	3,760/-
3	Expert Evaluation Of Project(GTU)	56	28/04/2014	8 <sup>th</sup>	1,000/-
4	Design & Analysis of Algorithm	28	08-09-14	5 <sup>th</sup>	2,560/-
5	E-Commerce	85	24/02/2015	6 <sup>th</sup> & 8 <sup>th</sup>	2,700/-

## Civil Engineering...

Sr. No.	Expert Lecture topic	No. of Students	Date	Semester	Cost (₹) Sponsored by Institute
1	Tendering and contracs	55	16/1/2014	8 <sup>th</sup>	3,760/-
2	Basics of Earthquake Engineering	56	17/1/2014	6 <sup>th</sup>	3,840/-
3	Structure Analysis-II	71	21/1/2014	6 <sup>th</sup>	4,610/-
4	Michanics of Solids	6	10/10/201	3 <sup>rd</sup>	5,000/-


## Electronics & Communication...

Sr. No.	Expert Lecture topic	No. of Students	Date	Semester	Cost (₹) Sponsored by Institute
1	Embedded workshop on Microcontroller	30	25/1/2014	7 <sup>th</sup>	5,568/-
2	Latest Embedded Systems	50	09-04-13	7 <sup>th</sup>	2,500/-
3	Embedded syatem and Its Application	27	23/8/2014	7 <sup>th</sup>	3,600/-
4	Digital Signal processing	50	22/10/2013	7 <sup>th</sup>	5,480/-



## Faculty Achievements of the Year...

### Faculty promoted to Doctorate Studies

Sr. No	Faculty Name	Topic of the Doctorate studies	University	Photo
1	Prof. R. N. Mevada	Solar collector study	Kadi Sarva Vishvvidyalay, Gandhinagar	
2	Prof. H. C. Patel	Wire Cut Electrical Discharge Machining	Ganpat University, Kherva	
3	Prof. J. R. Patel	Numerical Solution Of Boundary Layer Equation For Non Newtonian Fluid Flow	Gujarat Technological University, Ahemedabad	
4	Prof. V. M. Modi	Designing & Evaluating CALL to improve Communicative Competence in English for Degree Engineering Students	Kadi Sarva Vishwavidyalaya, Gandhinagar	

### Research Paper Published in National/International Journal

Sr. No	Faculty Name	Title of the Research Paper	Journal Name	Month & Year
1	Prof. R. N. Mevada	Researchers and reviews on Active solar distillation system	IJSRD	September - 2014
2	Prof. R. N. Mevada	Reviews on different energy absorbing materials for performance analysis of solar still	IJAERD	November - 2014
3	Prof. R. N. Mevada	Review of Literature Survey on Effect of Thermal Coating on Cylinder and Piston Crown	IJERGS	November - 2014
4	Prof. H. C. Patel	Mathematical modeling on CO <sub>2</sub> laser cutting parameters of AISI304	IJIRST	July - 2014
5	Prof. H. C. Patel	A Review on Tip Clearance Flow and Secondary Flow Losses in Linear Turbine Cascade	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	June - 2014
6	Prof. J. B. Patel	Increasing Calorific Value Of Biogas Using Different Techniques: A Review	IJSRD	November - 2014
7	Prof. M. D. Patel & Prof. R. V. Chaudhary	Experimental Investigation of CO <sub>2</sub> Laser cutting parameters of ASSI 304	ICCIET	November - 2014
8	Prof. R. V. Chaudhary	Current Research Trends of CO <sub>2</sub> Laser Beam Machining of AISI 304- A Review	IJIRST	March - 2014

Sr. No	Faculty Name	Title of the Research Paper	Journal Name	Month & Year
9	Prof. Sumanta Das	Rock type classification by image analysis using the quaternion color extraction model and support vector machine classifier	J. Oil Gas Coal Engineering	April - 2014
10	Prof. Sumanta Das	Slum redevelopment strategy using GIS based multi-criteria system: A case study of Rajkot, Gujarat, India	World J. Civ. Engg. Const. Tech.	June - 2014
11	Prof. Sumanta Das	An Integrated GIS and Spatial Decision Support System for Market policy, Analysis, Research and Development	International Journal of Geography and Regional Planning	May - 2014
12	Prof. Sumanta Das	Utilization of fly ash byproduct in synthetic zeolites.	World J. Civ. Engg. Const. Tech.	February - 2014
13	Prof. Sumanta Das	Degradation of Monocrotophos Pesticides Using the Advanced Oxidation Method.	Journal of Environment and Waste Management	August - 2014
14	Prof. Sumanta Das	Biodiversity Conservation to Mitigate Environmental Pollution.	Int. J. Agri. Sci. & Tech.	September - 2014
15	Prof. Sumanta Das	A Geo-Statistical Approach for Crime hot spot Prediction in India	International Journal of Advances in Remote sensing and GIS	December - 2014
16	Prof. Malini Roy Choudhury	Rock type classification by image analysis using the quaternion color extraction model and support vector machine classifier	J. Oil Gas Coal Engg.	April - 2014
17	Prof. Malini Roy Choudhury	Slum redevelopment strategy using GIS based multi-criteria system: A case study of Rajkot, Gujarat, India	World J. Civ. Engg. Const. Tech.	June - 2014
18	Prof. Malini Roy Choudhury	An Integrated GIS and Spatial Decision Support System for Market policy, Analysis, Research and Development	International Journal of Geography and Regional Planning	May - 2014
19	Prof. Malini Roy Choudhury	A Geo-Statistical Approach for Crime hot spot Prediction in India	International Journal of Advances in Remote sensing and GIS	December - 2014
20	Mr. Vineet Jain	A Rational Approach for Evaluation of Quality of Service of Public Transport Routes: Case Study of Bhopal	International Journal of Advance Engineering and Research Development	August - 2014
21	Mr. Vineet Jain	A Statistical Approach for Identification of Hazardous Locations in A Road Network	Journal of Advanced Research in Automotive Technology and Transportation System	August - 2014



Sr. No	Faculty Name	Title of the Research Paper	Journal Name	Month & Year
22	Prof. V. M. Modi	Journey from CALL to MALL in Teaching English Language	ICT Based: Innovative Methods of Teaching English Language Today	January - 2014
23	Prof. V. M. Modi	Try out of MALL Gadgets in Education: A Review	Reforms and Innovations in Education	July - 2014
24	Prof. V. M. Modi	Thematic Aspects in the Trio of Indian English Fiction: A Review	Langlit	August - 2014
25	Prof. V. M. Modi	Shifting from Modernism to Postmodernism	Research Innovator	October - 2014
26	Prof. V. M. Modi	Try out of MALL to enhance Listening and Speaking Skills in English of Degree Engineering Students of Gujarat	Research Scholar	December - 2014
27	Prof. V. M. Modi	Innovation to Excellence New Initiatives in Education at Gujarat	SUBAH - IJRMS	December - 2014
28	Prof. V. M. Modi	Technology aid Blog to for teaching Communication Skills	Indian Scholar	December - 2014

## Research Paper Presented in Seminar/Conferences

Sr. No	Faculty Name	Title of the Research Paper	Organized By	Month & Year
1	Prof. Utkarsh Nigam	Fuzzy Logic Based Modelling Of Reservoir Operation: A Case Study Of Ukai Dam, Tapi Basin, India	M.A.N.I.T, Bhopal	December - 2014
2	Prof. Utkarsh Nigam	Effect Of Climate Change On Reservoir Inflow: A Case Study Of Ukai Reservoir	Govt. PG college, Chamba, Himachal Pradesh	October - 2014
3	Prof. Utkarsh Nigam	Overview of Sediment Transport Modelling & Deposition Pattern	VIT University	April - 2014
4	Prof. Utkarsh Nigam	Energy Dissipation through Hydraulic Jump Type (HJT) Stilling Basin and Overview of Hydrodynamic Design of Spillway for HJT Stilling Basin	MVGR College of Engineering	February - 2014
5	Prof. Utkarsh Nigam	Sediment Transport Modelling and Deposition Pattern	MVGR College of Engineering	February - 2014
6	Prof. Utkarsh Nigam	Hydraulic Jump Type Stilling Basin as an Energy Dissipator & Introduction to HJT of Spillway	SNPIT&RC, Umrakh, Bardoli, Surat	March - 2014
7	Prof. Utkarsh Nigam	Fuzzy Logic Based Operation of Gated Spillway	SNPIT&RC, Umrakh, Bardoli, Surat	March - 2014
8	Prof. Utkarsh Nigam	Energy Dissipators Comparison & Hydrodynamic Studies of Hydraulic Jump Type Stilling Basin for Spillways.	ADIT&BVM, Vallabh Vidyanagar	April - 2014
9	Prof. Utkarsh Nigam	Hydel Power Potential in India and Introduction to power generation through Small Hydel Power Plants	ADIT&BVM, Vallabh Vidyanagar	April - 2014
10	Mr. Vineet Jain	"A Rational Methodology for Ranking Accident Prone Locations in A Road Network"	National Institute of Technology, Calicut	May - 2014

11	Prof. Rishikumar	Analysis of Laminated Composite Using Matlab	MANIT, Bhopal	January - 2014
12	Prof. Rishikumar	Modeling and Optimization of Milling Parameters on Al-6061 Alloy using Genetic Algorithm	IIT, Guwahati	December - 2014
13	Prof. Rishikumar	Modeling and Optimization of End Milling Parameters on Aluminum 6061 Alloy using GRA based Taguchi Method Coupled with PCA	IIT, Guwahati	December - 2014
14	Prof. V. M. Modi	Journey from CALL to MALL in Teaching English Language	Smt. M. M. Shah Mahila Arts College, Kadi	January - 2014
15	Prof. V. M. Modi	Shifting from Modernism to Postmodernism	Yashwantrao Mohite College, Pune	February - 2014
16	Prof. V. M. Modi	Try Out of MALL Gadgets in Education: A Review	Swami Vivekanand Sarvodaya Education College, Mehsana	March - 2014
17	Prof. V. M. Modi	Innovation to Excellence New Initiatives in Education at Gujarat	Waymade College of Education, Vallabhvidyanagar	March - 2014
18	Prof. V. M. Modi	Influence of Western Feminist Trends on Indian Woman	M. S. Uni., Baroda	March - 2014

## Participation and attended Workshop /STTP/ FDP/ Seminar

Sr. No.	Faculty Name	Title / theme	Organized By	Month & Year
1	Prof. Sumanta Das	Effective teaching and learning methodology	MEFGI, Rajkot	January - 2014
2	Prof. Sumanta Das	Effective Mentoring	MEFGI, Rajkot	March - 2014
3	Prof. Sumanta Das	Integrated Research and teaching	MEFGI, Rajkot	March - 2014
4	Prof. Malini Roy Choudhury	Effective teaching and learning methodology	MEFGI, Rajkot	January - 2014
5	Prof. Malini Roy Choudhury	Effective Mentoring	MEFGI, Rajkot	March - 2014
6	Prof. Malini Roy Choudhury	Integrated Research and teaching	MEFGI, Rajkot	March - 2014
7	Prof. Utkarsh Nigam	River Water Management and Management of Indian Rivers	S.V.N.I.T., Surat	March - 2014
8	Prof. Utkarsh Nigam	Mobile Channel hydraulics	S.V.N.I.T., Surat	April - 2014
9	Prof. Rishikumar	Recent Advancements in Product Innovations and Design (RAPID-2014)	MANIT, Bhopal	Feb - 2014
10	Prof. Rishikumar	Preparing Young Researchers	MANIT, Bhopal	March - 2014
11	Prof. Rishikumar	Product development using Ansys	S.R.P.E.C., Unjha Gujarat Power	Nov-Dec - 2014



12	Prof. Vinod P Rajput	Advances in Refrigeration and Airconditioning ( One Day FDP )	Engineering & Research Institute, Mevad	June - 2014
13	Prof. Vinod P Rajput	Product Development using Computational Fluid Dynamics ( 5 day STTP )	Smt. S. R. Patel Engineering College, Dabhi, Unjha.	November – 2014
14	Prof. Vinod P Rajput	Futuristic Innovations on Solar Energy ( One Day National seminar )	Gujarat Power Engineering & Research Institute, Mevad	December- 2014
15	Prof. R. N. Mevada	Product Development using Computational Fluid Dynamics	Mechanical Department, Smt. S. R. Patel Engineering College, Unjha	Nov-Dec 2014
16	Prof. H. C. Patel	Product Development using Computational Fluid Dynamics	SRPEC, Dabhi	Nov-Dec - 2014
17	Prof. H. C. Patel	Advances in Refrigeration & Air-Conditioning	Gujarat Power Engineering & Research Institute, Mevad	June - 2014
18	Prof. H. C. Patel	Design Engineering	GTU	Nov - 2014
19	Prof. H. C. Patel	A One Day Workshop on PLC (Mentor)	SRPEC	Sep - 2014
20	Prof. H. C. Patel	Patent Awareness (Mentor)	SRPEC	Oct - 2014
21	Prof. H. C. Patel	Microsoft Office (Mentor)	SRPEC	Jan - 2014
22	Prof. J. B. Patel	Product Development using Computational Fluid Dynamics ( 5 days STTP )	Smt. S. R. Patel Engineering College, Dabhi, Unjha.	November – 2014
23	Prof. A. G. Barad	Product Development using Computational Fluid Dynamics ( 5 days STTP )	Smt. S. R. Patel Engineering College, Dabhi, Unjha.	November – 2014
24	Prof. N. N. Chaudhari	Product Development using Computational Fluid Dynamics ( 5 days STTP )	Smt. S. R. Patel Engineering College, Dabhi, Unjha.	November – 2014

## *Pieces of Art...*

### LET ME LIVE

I want to live  
 To see the real life  
 Mom-dad if you by my side  
 Nothing is stuff to the ride  
 I always welcome you with open arms  
 Make sure nothing is harm  
 I feel you very proud  
 Why do you not want to get me out?  
 I want a tiny seed  
 Mom nature to care my need  
 I want to live  
 But why do you not want to 'LET ME LIVE'

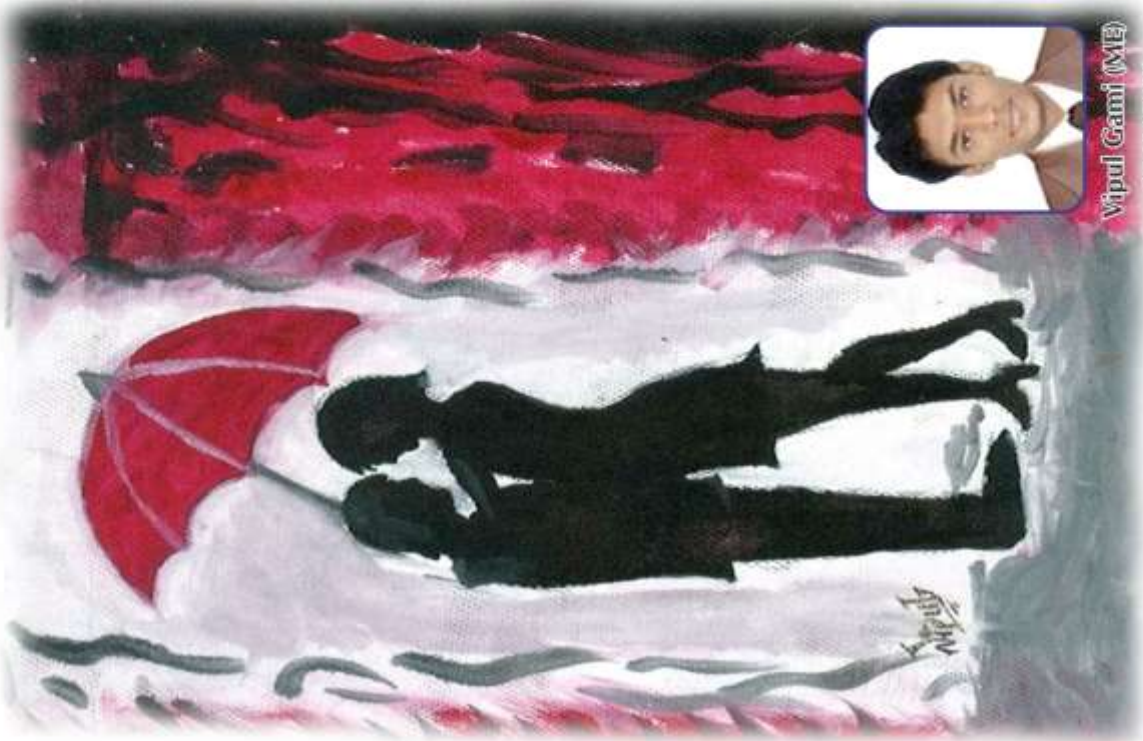


Dhruvi Thakkar (CE)

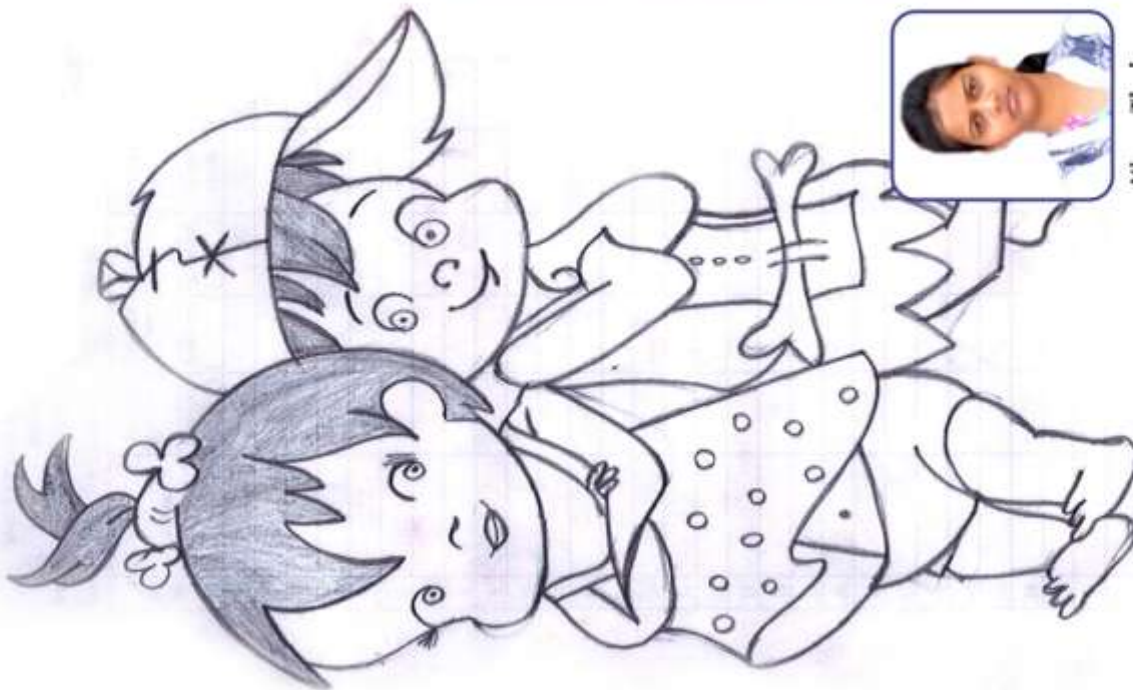
13CE04



## Curves & Strokes



Vipul Gami (ME)  
D12ME15



Kiran Thakor  
(Faculty - CE)

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**And Many More...**

## STUDENT CELL

Students Cell is a democratic body with all its representatives being elected by the students themselves. It was emerged in the year 2013 at Smt S. R. Patel Engineering College. Reputation of every great institution is mainly built by its Students and the work they do both while in the Institution and then when they enter the Corporate world. The mission of the Students Cell is to nurture and enhance the reputation of the Institute within the Student fraternity, corporate world and the Society in general. Student Cell acts as a link between the Students and the administration. The list of main committee members of Student Cell are:

1. **President: Bhaumik Patel (6th Mechanical)**
2. **Vice President: Nihar Maheshwari (4th Mechanical)**
3. **Secretary: Hemadri Parikh (6th Computer)**
4. **Coordinator: Ajay Raval (6th Mechanical)**
5. **Co-Cordinator: Mitu Thakkar (6th Computer)**
6. **Co-Cordinator: Ravi Shah (2nd Computer)**

Various activities carried out by Student cell are as follows:

1. **Internet Cell**
2. **News Cell (Anchoring)**
3. **Photography Cell**
4. **Designing Cell**
5. **Sports Cell**
6. **Cultural Cell**
7. **Gym Cell**
8. **Social Cell**
9. **Competitive exams Cell**
10. **Technical Cell**







શ્રીમતી એસ.આર. પટેલ એન્જનીયરીંગ કોલેજ પરિવાર

Dt. 10/1/2014

DL 20/9/2014

Dt. 5/12/2014

Dt. 18/12/2014

A photograph showing two men standing in a room. The man on the left is wearing a dark jacket over a light blue shirt and dark pants. The man on the right is wearing a dark jacket over a light blue shirt and blue jeans. They are standing in front of a table covered with a white cloth. On the table, there is a small white object and a small red object. In the background, there is a poster on the wall and a doorway leading to another room.

(H. g. a.)      दिनांक १६      Dt. 16/7/2014

જાણી, પાણીમાં ધોપાઈ જતા અને કાળે ન રહીત મુખમાં વિચારીવાળી ચીમનીની બહાર ફેંકાશે. પરિણામે સ્વચ્છ સંપૂર્ણ કલનના વિજ્ઞાનના નિયમ અનુસાર જાણી એવું બનવાશે. સમયનો આશરે થશે તેમજ પાણીના વલણમાં કાળે ને સરળતાથી જાણી થશે નહિ અને જુદા વિચારો મુખમાં ફેંકાવાની મુશ્કેલી એવું થઈને સ્વાસ્થ્યનું નુકસાન બેઠકાની બાજુએ



## *Photo Courtesy...*

Prof. Ajaypalsinh Barad (ME)



Prof. Ravi P. Patel (EC)



## *Up Coming Events...*

- Pratibha - 2015
- Funethniz - 2015
- Annual Day - 2015
- Prayag - 2015
- NCIET - 2015
- Prakrusht - 2015
- Prasthan - 2015

### **Souvenir Committee**

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Dr. Ami H. Shah (Principal)

#### **Souvenir Editor**

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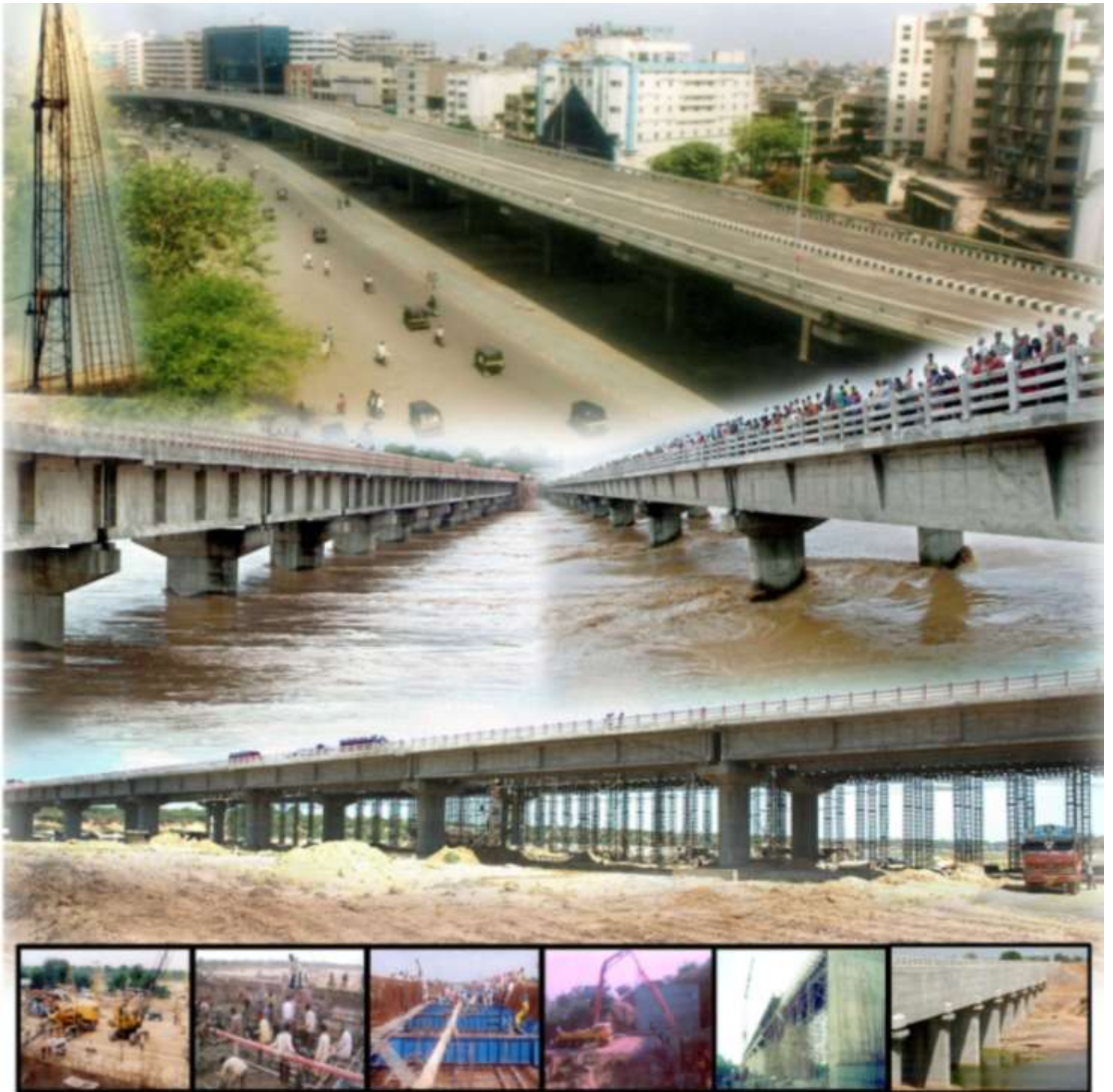
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