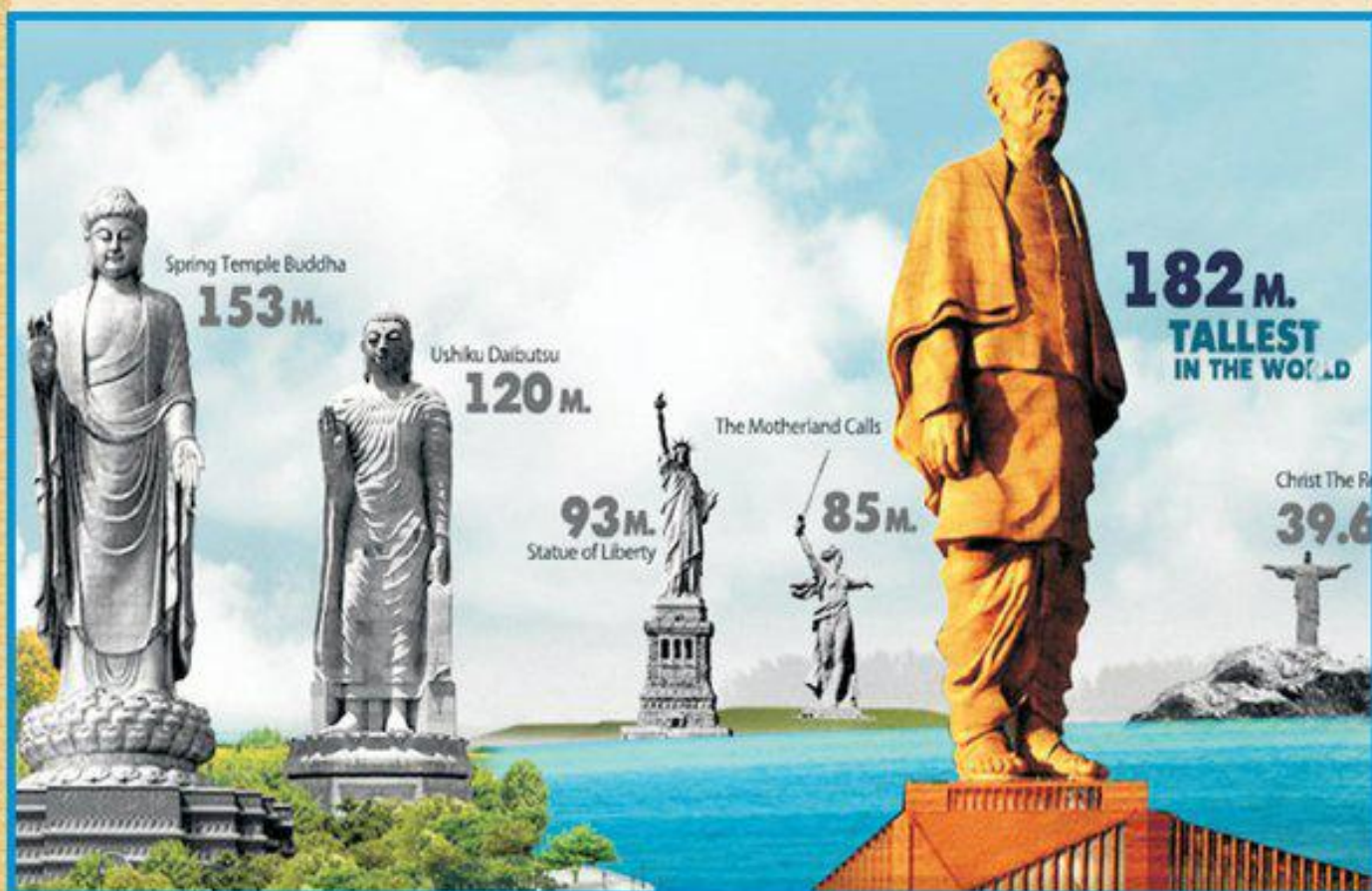




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THE SOUVENIR 2015
13th Annual Convention

SVNIT ALUMNI ASSOCIATION

S. V. NATIONAL INSTITUTE OF TECHNOLOGY
SURAT



AIR

1

IIT-JEE
2014

ALLEN Created Historical
Result in **INDIA** by
Securing both
AIR-1 from
ALLEN Classroom Course



AIR

1

AIPMT
2014

CHITRAANG MURDIA

Authenticity of Result : Power of **ALLEN**

TEJASWIN

JAYSHIVTM

Real Estate Consultant

Contact No. : 98251 09141

Contact No. : 98798 93615

Member of



Office Address

G-18-19, Hira Panna Shopping Mall, Near Maheshwari Bhavan,
City Light Road, Surat.

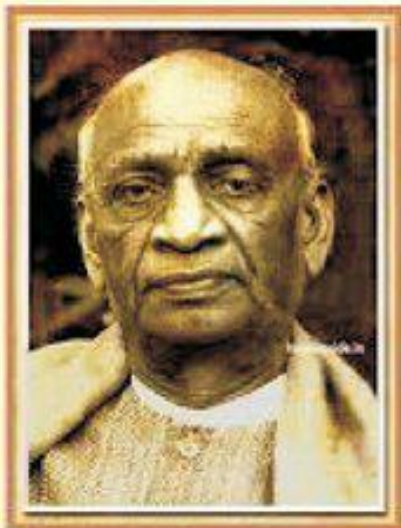
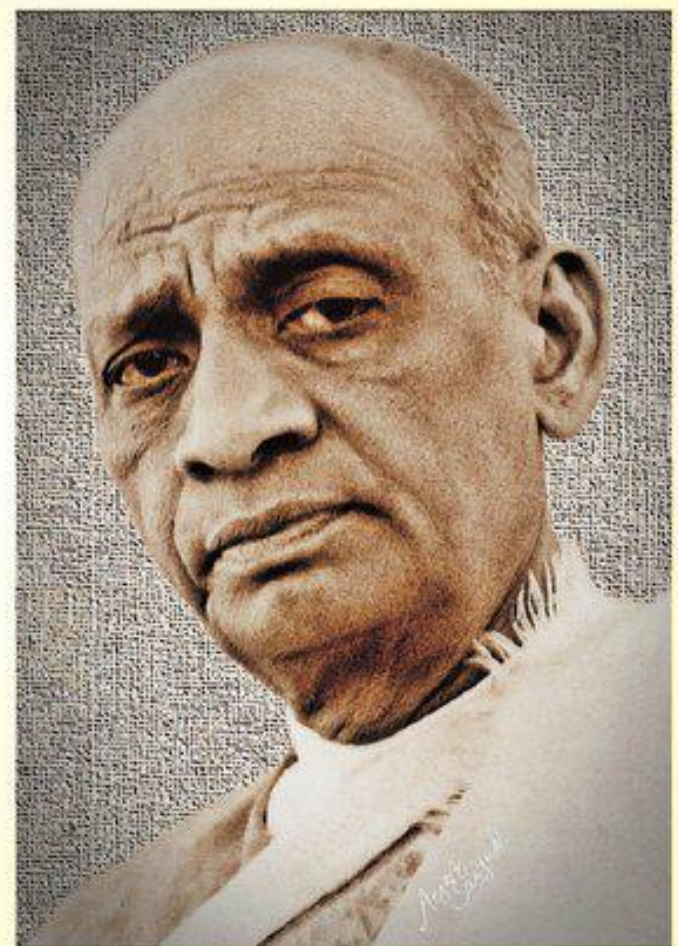
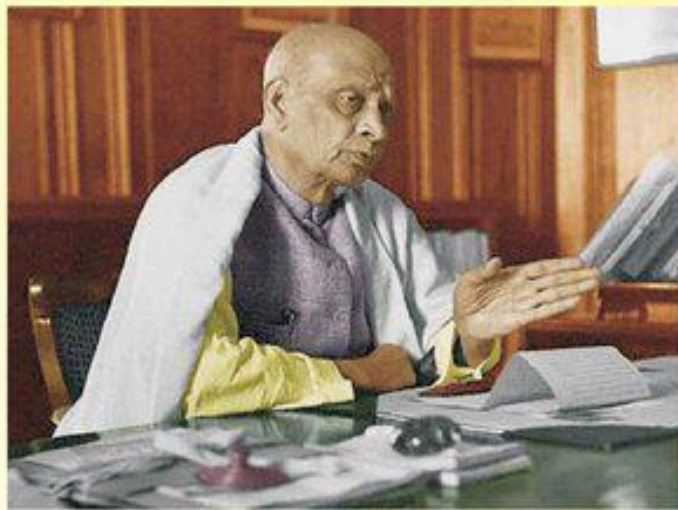
E-mail: jayshiv_realestat@yahoo.in

website : www.realestatebank.in

Buy - Rent - Lease - Sell



या कुन्देन्दुतुषारहारधवला या शुभ्रवस्त्रावृता
या वीणावरदण्डमण्डितकरा या श्वेतपद्मासना ।
या ब्रह्माच्युतशंकरप्रभुतिभिर्देवः सदा पूजिता
सा मां पातुसरस्वती भगवती निःशेषजाड् यापहा ।



Vallabhbhai Patel





Darshana Jardosh

MEMBER OF PARLIAMENT
(LOK SABHA, SURAT)



MESSAGE

Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat is one of the leading National Institutes of Technology in India.

I would like to take this opportunity to invite all of you to join forces and take part in our Hon'ble PM Shri Narendrabhai Modi's "Swachh Bharat Abhiyan".

Cleanliness plays a vital role in the health of an individual. While some people do know the importance of cleanliness, many are clueless about the dangers of staying in unhygienic conditions. Rural areas are the regions where the people lack information regarding the diseases killing thousands of life and how the contraction of such diseases can be avoided by merely maintaining a clean surrounding. Cleanliness is not only essential to lead a physically healthy life but also a mentally healthy life.

Let us all make small but substantial changes in our day to day lives regarding basic personal hygiene and working towards cleaner surroundings at our homes and work places.

I applaud your accomplishments and celebrate with you the momentous success of the University that has been achieved through many years of hard work put in by all those associated with this University. These contributions to the university would not have been possible without the university SVNIT's Alumni Association participation and collaboration.

I wish you all the best for continuing your efforts to further this great university through these planned activities and others that will improve the functionality, robustness, and reliability of information technology and engineering services for the entire country.

Regards,

Darshana Jardosh

(Darshana Jardosh)
Member of Parliament
Surat (Lok Sabha)

59, South Avenue, New Delhi - 110001. Tele-Fax : (011) 23795337

Office : 10/417, 'Jardosh House', Pani ni Bhint, Bhagatalav, Surat - 395 003. Tele-Fax : (0261) 2594455
Residence : 10/430, Tasveer Apt., Pani ni Bhint, Sonifalia, Surat - 395 003.
mail@darshanajardosh.in



Jaya Panvalkar

Chairperson, Board of Governors
SVNIT Surat

Message

I am extremely happy to welcome you all to the 13th general Convention of SVNIT Alumni Association held in Surat on January 2nd & 3rd, 2015, along with Silver Jubilee celebration of 1990 pass out batch.

The alumni play a vital role in development & progress of any Institute. I am proud that alumni of SVNIT are very well involved & keenly look forward to have SVNIT flag flying high on the map of world of academia. I wish more involvement of alumni in building up strong relationship between the Institute & Industry, as well as encouragement to the students and faculty in building the culture of Innovation at the Institute will help SVNIT to march towards the ultimate excellence.

I wish all the success to the alumni and alumni association in its endeavor to s.

succeed in all walks of life



Dr. P. D. Porey

Director
SVNIT, Surat.

On behalf of the Institute, I have great pleasure in welcoming all of you to the 13th General Convention of SVNIT Alumni Association Surat. As you are keen to know about what is happening in our beloved Institute, so I am more excited to tell you about it.

We have a very vibrant Alumni Association capable of delivering cooperation and contribution. Over the past few years tremendous efforts are being made in almost all the fronts, by one and all members of SVNIT family to develop the institute and the infrastructure. We have been providing the ambiance for our faculty and students to live up to their highest potential. The emphasis on research publications, attending national and international conferences, patenting etc., has increased over the years.

A new trend has been introduced this year for students to excellence in academic research through the generous donation of our Alumni and well wishers.



H. A. Parmar

Registrar,
SVNIT, Surat.

It is a proud moment for Sardar Vallabhbhai National Institute of Technology (SVNIT) that the Alumni Association of SVNIT, Surat is organising the Annual General Convention of its Alumni Association on 3rd January, 2015 alongwith Silver Jubilee Celebration of 1990th pass out batch.

The amalgamation of the present and the past members will definitely associate with the progress of the Institute and will lead to reach to the pinnacle of success. This Convention with its unique nature will stir a series of memory for the members of the Alumni Association and will provide a glimpse of future for the present members. It will be an opportunity for the institute to expand its horizon amongst the globally known companies and collaborate with them.

I extend a warm welcome to all the members and I am confident that this meet followed by the Silver Jubilee Celebration of the Alumni of the Year "1990" will be a memorable one and will be remembered for years to come.

With Best Wishes

Place : Surat

Date: 1st January, 2015

A handwritten signature in black ink, appearing to read 'H. A. Parmar', with a long horizontal line extending to the right.

(H. A. PARMAR)
REGISTRAR
SVNIT, SURAT

ROLE OF ALUMNI AT SVNIT A NEED OF TIME



Dr. D. V. Bhatt

Professor (MED) & Dean (AL & RG)

Conversion from R.E.C. to S.V.N.I.T. has resulted in to major changes in infrastructure, technology and academic excellent. Eleven years of journey as N.I.T. has achieved remarkable bench marks in the area of Research, Publication, awards and in particular student placements. Liaison with Industry & global academic institution has also increased and resulted in no. of MOUs for the purpose of institute excellence. MHRD Govt. Of India is also promoting autonomy to NIT's and expects to develop culture of entrepreneurship and Innovation among the budding technocrats. Our students have demonstrated their "Next Gen" skills and knowledge through participation in various National International events. SVNIT - management has also established various platforms to up-grade knowledge skills for all categories of students for better placement opportunities or career option.

Alumni Association SVNIT is also contributing from its inception in the institute. Well defined objectives, guidelines also approved by BOG SVNIT to provide mechanism to operate alumni activities. Eleven alumni conventions are also organised during NIT tenure till the date. Now time demands some concrete participation or input for the excellence of student community in the form of establishment of "INNOVATION CENTRE" like NTS. Such Infrastructure is expected to be planned, executed and operated by the Alumni SVNIT which will ultimately result in development of national leaders in technology. Alumni can participate and share their views/ experiences as visiting faculty, as venture capitalist, as trainer, as motivator over and above resource full support to various student managed activities.

At present fortunately SVNIT is having visionary Director Dr. P.D.Porey, Dynamic Registrar Shri H .A. Parmar and a team of young faculty Deans -Associate Deans to lead the Institute at global level. Alumnis are appealed to come forward to contribute in whichever way they prefer to up-lift our Institute under global competition. Opportunities are ample, sky is the limit. With this wishing a grand success to 13th Alumni Convention and 1990 batch silver Jubilee celebration .

Jai Hind



Er. UTPAL MISTRY

President,
SVNIT Alumni Association
president@svnitalumni.com

Dear Alumni friends,

Firstly let me start by expressing "Thank You". Right from bottom of my heart. And I mean it.

2014 marks the completion of our 25 years, the silver jubilee of our batch. It has been a challenging and exhilarating year in which Alumni Association has certainly made a mark. This is a very crucial point of time, wherein we have to make faster and swifter moves leveraging the innovative technology of this new era. We as a young budding team are putting unparalleled & immense efforts to foster our Alma Matter and we are progressing strongly and sternly towards fulfilling our major goals and objectives.

It is to our great pleasure that SVNIT Alumni Association has attained a firm footing in the institute platform by now representing in Board of Governors, Senate and Board of Studies and is playing a key role in building & participating actively in building the brand image of our own SVR / SVNIT – The institute of National Importance.

We had a great year so far with International / National / Regional and Local Chapter meets starting with Pan-NIT-Dubai , Delhi , Surat , Vadodara , Nasik , Mumbai and finally the Ramzat celebrations. These meets were highly successful and were a great occasion to meet some of old friends & Families. Our new alumni website ([Http://www.svnitalumni.com](http://www.svnitalumni.com)) has remain instrumental in helping us to publish news / Events and send out an invite to our alumni for all such events. You can always check list of attendees on our website & linked with is our official Facebook Page. <https://www.facebook.com/groups/svnitalumniasso/>

We have now built a database of 15,000+. We need all Alumni to register to make our fraternity more vibrant. The first step was to build strong online presence across all social media platforms including FB, Twitter and most importantly revamping our own website (<http://www.svnitalumni.com>). While giving utmost preference to data security, we want to make sure the alumni database is up-to-date and is very easy for all to search and communicate with fellow alumni & post Job vacancies and Internship offers to students. On this note I request everyone to register using Facebook, LinkedIn or email id and update their own or their friend's profile with their current and college time photos. Also spread the word to our fellow SVNIT alumni. The more the merrier.

We have started a well-equipped, well-furnished our own office in the new premises near the bank with facilities like internet, computer with printer, scanner facilities, conference hall , Front desk with our office clerk who sits in office from 14:00 pm to 20:00 pm. Thanks to our

Honorable Director, Registrar, the current and previous managing committee & all those who played an instrumental role to make this come true.

The series of lectures by our distinguished Alumni for the third and final year students which was initiated previous year is a matter of great pride for us and has continued the same zeal. The aim is to bridge the gap between our merry college life and the expectations of an engineering industry from its employees.

We are so fortunate to have both our Elder and Younger Alumni, the college management & of course the existing exhilarating students supporting me - elders with their valuable experience, and youth with their exuberant enthusiasm.

We have planned events for three successive days in the month of January. Here is a brief schedule 2nd January - Friday (Leadership summit from Hall of Fame Alumni), 3rd January - Saturday - Annual Convention, 4th January-Sunday - Silver, Golden and Decade celebration. We are thankful to all our sponsors, Chief Sponsor, Co-Sponsor, Associate sponsor, Lunch and Dinner Sponsor, Annual Convention Event Sponsor, Hall of Fame and Leadership summit sponsor, accommodation Sponsor, Medals Sponsor, Needy Students Funds Sponsor. Please do come forward if you want to help the institute in any manner. You can check the donations section for details.

I heartily thank our new Chairman Ms. Jaya Panvalkar , Honorable Director Dr. Porey, Registrar Mr. H A Parmar , Dean Alumni, all the Wardens, Faculties, Estate Section and Dean Planning & Development, office bearers and entire Managing Committee, members and persons who extended their whole hearted support.

We are indebted to our Alma-Mater SVNIT as one of the reasons for our successful career is the very fact that we are SVRITE/ SVNITIAN...!!!

"What takes Guts is to stand for something higher, to behave greater and to be of service to others. The future is not something we enter. The future is something we create."

We all are blessed to be able to meet all interesting people from all walks of life regularly because of the job assigned to us. We will be meeting all , Some Good People , Some critics , Some Makers , Some Poets , Some Brilliant college students , Definitely some Wise teachers , Some Visionary Entrepreneurs, Taking that extra mile at the end of the day is not an easy thing to do but its right thing to do. Our Path will be a balance of Tender yet Tough, Compassionate yet courageous, Friendly yet Firm, Humble but Devoted.

An email reply to me at president@svnitalumni.com will be always highly appreciated. That will keep our spirits high and will ensure that you are getting our emails and involvements. And of course keep visiting our new website <http://www.svnitalumni.com> and involve all your friends to register online and update their profiles with their college time and current photos.

Jai SVR / Jai SVNIT / Jai Icchanath Mahdev Ki.

Thank You.



Er. Kamal Parekh

Hon. Secretary
SVNIT Alumni Association

From The Desk Of Secretary

It gives me immense pleasure to present a secretarial report of the year 2014-15, which was full of joyful events and activities with warm chapter meets and what not. I sincerely express my gratitude to the entire alumni family and friends for giving me this opportunity.

The office bearer has taken the charge of Alumni Association, and the installation ceremony dated 06/04/2014 was chaired by Dr. Sudhir Jain, (Director Of IIT, Gandhinagar) with a oath to fulfill a dream- a dream of development of Stake holder, up gradation & a dream to have a recognitions of our mother institute at the fullest extent, so as to have a brand image at National as well as International level; the three key committees were formed, Student Welfare Committee, Institute Industry Interaction Committee, Alumni Family Development Committee along with other committees for the functioning of the association and its co ordinations.

The functioning of Alumni Family Development Committee has played its role and it resulted in a newly launched web site www.svnitalumni.com which has a more then 15500+ alumni on record and they all get connected in a straight line / dot to dot. Student Welfare Committee looks after the student's affairs and we have a fund but we would like to generate/regenerate more and more fund to help out the needy students from the available resources. We have a "needy student welfare fund" and the methodology adopted is to synchronize by providing them zero interest loan, with moral obligation and binding letter to refund the same. The sole purpose of getting the fund back from the beneficiary is to reuse the same for benefit of more & more no(s) of such needy students in future and by this way the fund gets regenerated. The Institute Industry Interaction Committee, has worked out with local small scale industries for the industrial training/internship of short duration for the students, not only this but also our Alumni friends who are well established in their respective fields and are also ready to extend their help by providing them training in near by region. It was an outcome of Nashik Meet on 24/08/2014 and Mumbai Meet on 21/09/2014. Not only that our alumni have expressed their willingness to contribute for it in all respect. Now we have an alumni representation in Board of Studies, Board Of Governance and Senate too.

Events of the Year :-

1. Delhi Meet 15/06/2014 – Organized by the North – East Regional President Er. Vikash Jain in association with Er. Deepak Butani and others.
2. Surat Chapter meet was organized dated 12/07/2014 under the leadership of Surat Chapter President Er. Paras Doshi and his team.
3. Vadodara Meet – 13/07/2014

4. Nashik Meet – Organized by South Region President Er. K. D. Patil dated 24/08/2014
5. Mumbai Meet – Organized by newly reconstituted Mumbai Chapter headed by Er. Dipak Dani, Er. Rajesh, Er. Rajeev Thomash, and all very senior alumni of SVRCET / SVNIT on 21/09/2014
6. “Ramzat” the traditional Ras-Garba with traditional tune successfully organized with live orchestra at Canteen Cement dated 08/10/2014, in coordination with the Surat Local Chapter and the expenses were contributed by Executive Committee & Chapter Committee members. At this juncture I take the opportunity to express my gratitude personally as well as on behalf of the Alumni Association to Er.Dipakbhai Dudhwala and Er. Somabhai Patel, a noble alumni amongst us, who have been sponsoring the dinner for many years and have continued the same this year too. This event was a great success and alumni who attended with their family were full of praise for the event and insisted upon organizing such colorful events frequently.
7. Engineers Week – From 13th to 17th Sep. 2014

“Engineers Week” was celebrated From 13th to 17th Sep. 2014 in sweet memory of Bharat Ratna Sir Mokshagundam Visvesvaraya (1861-1962).He was called a wizard in engineering. He was also called the precursor of economic planning in India. He took an interest not in engineering alone, but was capable of applying his talent to many allied matters connected with the development of the nation. His learned discourse on economic planning in India titled 'Planned Economy for India and Reconstructing India' was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. To commemorate the birthday of Bharat Ratna Sir M Visvesvaraya, we celebrated in co-ordination with Institute Of Engineers during “Engineers Week”. The event had celebrated throughout the country and for the first time the Alumni Association has joined hand At this juncture I take the opportunity to thank our Chairperson and Director of SVNIT Dr.P.D. Porey for his whole-hearted support and guidance , Dean Alumni Affairs Dr. D. V. Bhatt for his co ordination between the association and institute, Immediate President Er. Bharat Patel for his vision, guidance and moral support along with Er. Percy Savai (Immediate Past Secretary). I would also like to thank past president Er. N. M. Bhatia and past secretary Er. Ashok Moitra for their absolute positive attitude. They inspired the quality of brotherhood, togetherness - forget and forgive attitude for fellow alumni. I am also thankful to all committee members for their support and our Alumni friends who have sponsored events and contributed for organizing the events.

8. And how can we forget our annual convention event every year along with the silver jubilee celebration, The year was remarkable as it was golden jubilee year for 1964/65 passed out batch(The first batch of SVRCET) and the Silver jubilee year for 1990 passed out batch. This year too we are celebrating it with fun and sweet remembrance along with our faculty members, past and present professors, administrative staff and of course our friends & family .

Thanks once again and expecting support , active participation, contribution and involvement from our alumni friends.



Er. Bharat Patel
I.P.P. SVNIT

Dear Alumni Friends,

Wishing you very Happy New Year to all of you.

It gives me immense pleasure on the eve of auspicious occasion of 13th Annual General Convention to share my views. After becoming integral part of SVNIT family, our Association has started taking steps and with your generous support it is going to run fast. With the painstaking efforts of present team, office assistant Deven and overwhelming contribution of student committee number of participants recorded this year is overwhelming. I am sure participation is going to increase every year.

I am sorry to inform you that we have not been able to start our dream project of Innovation center because of certain legal formalities to be fulfilled. We are after it and this year we intend to complete the formalities and lay the foundations for the same.

In everyday life as well as in our profession, we face small problems which can be resolved or minimized by simple innovations. During my last visit to Mahabaleshwar I saw a subjiwala sprinkling water over his vegetable using mineral water bottle with small holes in its cap. This poor gentleman probably having minimal or no education has applied his brain to facilitate his job. There can be such number of issues in our day to day life or in our profession. All we need to do is refer to this innovation centre, support financially and get some practical solution resulting into minimizing the efforts or cost. These innovations may be patented also in the joint name of sponsor and SVNIT Alumni Association. The royalty generated will benefit both the sponsor as well as Alumni Association.

Technology and Engineering are always synonym to inventions to provide better practical solution to day to day problems. It is proposed to construct an innovation centre for S.V. National Institute of Technology with a motive to facilitate innovations in various branches of Engineering. At present courses in six branches of engineering run in the Institute. PG programme as well as Ph D programme are also going on. The basis of these programme is to prepare a work force for innovations that can serve the Nation and society at large.

Proposed Innovation Centre will provide a platform for undertaking such innovations. It will be a bridge between industry and academics. The Innovation Centre will have following facilities:-

1. Entrance Foyer and waiting area
2. Administrative office for Innovation Centre.
3. 30 fully equipped Rooms for different branches and specializations in all branches.
4. Modern Cafeteria
5. Conference rooms
6. Library and Computer Centre.
7. Office for Alumni Association
8. Toilet blocks and Circulation spaces.

I am happy to inform you that a local Entrepreneur has referred two projects through Alumni Association. Third project is under process as it involves big time investment and technology which has not yet come to our country.

We intend to raise a total fund to operate this Innovation Centre worth Rupees Four Crore. We had a firm commitment for Rs. 60.00 Lacs two years back, which could not be collected due to lack of legal formalities. But I am confident to raise Rupees Once Crore and Twenty Five Lacs from Surat and South Gujarat. I Appeal all my distinguished and well established Alumni friends spread over the entire globe to donate generously for this noble cause. My appeal is also to office bearers of all zones and all chapter chairmen to take lead and help us reaching the target. It is a small gift to our Alma mater who not only educated us but also nurtured us and places us at respectable position in the society. If All Alumni member donates at-least one month's income the fund will be huge. I am sure you guys will respond generously by not only donating good sums but also motivate your batch mates and other alumni friends to donate.

With warm regards,

BHARAT M PATEL
78 (Civil)



Bhadresh F. Shah c-76

Past President
SVNIT Alumni Association

To day whatever we are,
Wherever we are and whatever status we are enjoying ,
is all due to nothing but our alma - matter,
keeping in mind that is always less and never enough.
This should be not only the spirit, but also emotion & passion
of each and every past student.

Slowly but steadily, we are progressing towards strong foundation of
our SVNITAA, since its establishment before six years,
to serve our alma - matter, possibly in best manners and
to tighten strong bonds of friendship, fellowship and
co-operation amongst us. All Alumni must become
the member of our association and try to attend
all the gatherings, specially alumni conventions.

I wish grand success to this grand SVNIT Golden Jubilee

With warm regards,
BHADRESH F. SHAH, Surat. I.P.P.

Cultural Event Convention 2014



Inauguration of Convention 2014



Dr. P. D. Porey, Director SVNIT
Addressing the audience



Sh. H. A. Parmar, Registrar SVNIT
Addressing the audience



Dr. D. V. Bhatt, Dean (AL & RG)
Addressing the audience



Chief Guest Sh. Pankajkumar, IAS
Principal Secretary (NRI & ARTD)
Addressing the audience



Dr. B. M. Patel, IPP
Addressing the audience



Inauguration of SVNIT Alumni Association office

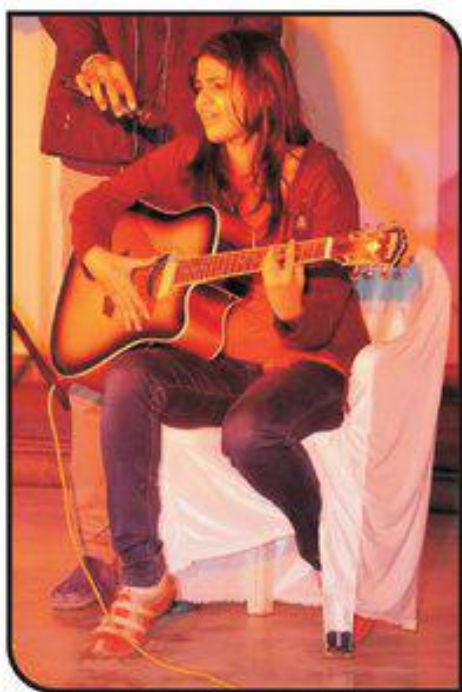


Section of the audience



Group photo of managing committee members of association

Cultural Event Convention 2014



Cultural Event Convention 2014



Silver Jubilee Celebration of 1989 pass out batch



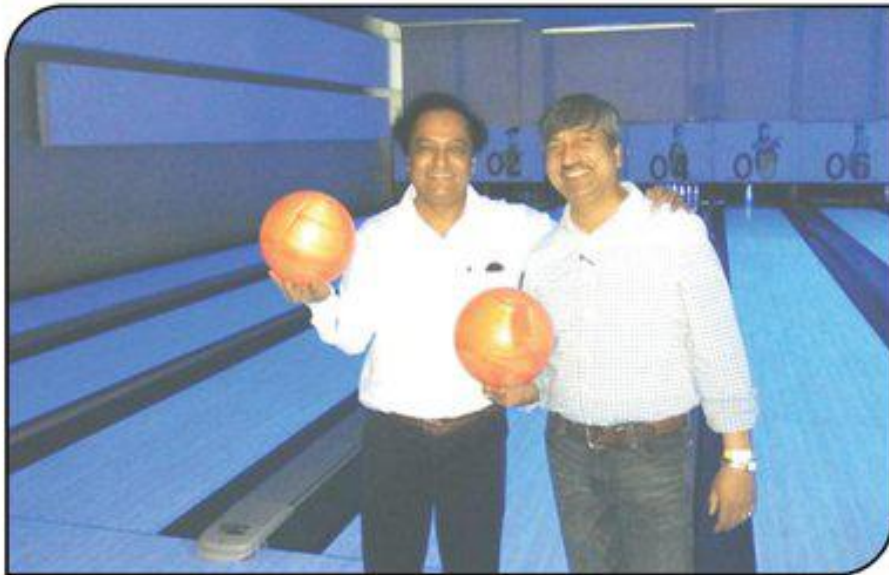
Installation Ceremony



Chief Guest
Dr. Sudhir Jain
Director, IIT-Gandhinagar



Section of
students Discussing with
Dr. Sudhir Jain



Delhi chapter meet - A



Delhi chapter meet - B

Baroda chapter meet



Surat chapter get-together



Surat Chapter President



Innovative Research and Consultancy In Structural and Geotechnical Engineering



Dr. Atul K. Desai, Professor, AMD

Ph.D. (Structure), LL. B.

E-mail 1: atuldesai61@gmail.com

Email2 : akd@amd.svnit.ac.in

Mob: 09327433390

I had passed B.E.Civil From same institute in 1983 with first rank Gold Medalist, Masters in Structural Engineering in 1985, Bachelor of Law In 1987 and Ph.D from SVNIT in 2008. I was head in 2008 - 2010 year in Applied Mechanics Department.

In this article, I want to share my experience in research and consultancy of my 31 years of span in Applied Mechanics Department. In my guidance, 7 Ph.D. students and 57 M.Tech. students acquired their degree (11 ongoing Ph.D. students). I have published 229 research papers, visited Thailand, Singapore, Malaysia, Egypt, USA, Indonesia, Switzerland, Canada for paper presentation/chairing conferences.

Few years back, along with late Dr. M. D. Desai, we have given voluntary services for designing foundations of most prestigious Indian temple, Swaminarayan Temple, New Delhi. It was inaugurated few years back by our ex-President Dr. A. P. J. Abdul Kalam. The main challenge was to design it without steel reinforcement. This problem was solved with geotextile encased/tied stones in boat-form below foundation for monolithic action during earthquake. It was designed with 0.4g earthquake acceleration dynamically. Nature has certified our design during Islamabad earthquake at the time of inauguration itself. This was a very unique design. Recently, our few researchers have worked on fibre-reinforced soil for improvement of CBR value Bearing Capacity Improvement, reducing cost of earthwork for construction of road and canals. Moreover this will also reduce seismic liquefaction possibility. In this technique, localised soil can be stabilized with less cost on site itself. Recently, one student has worked on Kargil soil for stabilisation in differential thermal loading i.e. -10° to $+20^{\circ}$ C freezing and thawing cycles. This developed technique can be used for high altitude road and earthwork. Another effort has been made for building to damp out vibrations due to earthquake below foundation, using different layer of

geotextile mesh hence before earthquake shocks reaches building foundation. We have also studied inclinations of buildings in plan near sea-shore with consideration of Tsunami wave forces in computer-generated models. We had also worked on precast RE wall for Bridge Abutment and large height earthwork with steep slope considering Flyash based Soil and Geotextile Layers. We obtained very good results in complex model simulation.

We are also trying to develop low-cost G+3 housing building model on solid waste disposal site to decrease land encroachment and saving environment/vegetation. We obtained remarkable results for Khajod waste disposal site in Surat. Pile-raft foundations for tall buildings are other areas of research work. Experiment was conducted for beam-column joint for earthquake energy absorption capacity using fibre reinforcement/different arrangement of steel/stainless steel plate encasement for retrofitting purpose.

For cutting down cost of wind-tunnel testing of tall buildings and to study interference of two tall buildings on each other, innovative computational fluid dynamics (CFD) using different softwares was studied. This technique gives very easy and quick results at almost 1/10th cost of conventional methods. Geotextile encased stone columns are also new areas of research work. This study has been made for tall sky-pod structures, tall buildings, cooling towers, tall chimneys, transmission tower, microwave tower, microwave telecommunication tower with different seismic time history and blast loading.

Effort has been made for improvement of Pavement Quality Concrete (PQC) with fibres for construction of road. This improvement is also applied at different locations like Surat, Nagpur, etc. Design was modified for Nagpur, as topography is different and temperature variation is high. Durability aspects of fibre-reinforced concrete in marine climatic conditions were also studied.

Industrial vibrations are one of the important problems of Surat City. I have published a book on "Analysis Of Turbo Generator Frame Foundations" from Germany along with my son Smit Desai. We are also doing proof checking of TG foundation for Essar. Recently for NTPC, Hazira, we have solved problem of TG foundation, when it is working at high temperature with and without gas firing. For one of the industries in Ankleshwar, 27 m tall industrial frame

vibrations and for ONGC Hazira, ladder vibrations were solved. We are regularly doing proof-checking for different types of bridges like River Bridge, Flyover Bridge, railway bridges, pedestrian bridge, etc. We have proof-checked New Hope Bridge, Katargam flyover, Delhi-gate flyover, Adajan flyover, Parle point flyover and number of railway over bridge (ROB) in Gujarat, Madhya Pradesh, Rajasthan, DFCC and Northern Railway. Structural stability report was given for stage , during Vansda visit of our ex-PM Dr. Manmohan Singh. Moreover, in 1997, at Bangalore, I participated in Intellectual Property Rights (IPR) for different products and Basmati rice. We are also doing lot of research in cable-stayed bridge. I had work on 21 cable-stayed bridges different with near-field earthquake. Other research work for cable stayed and suspension bridges are given below which is to be presented at Vibrant Gujarat Conference

Cable-stayed bridges have become increasingly popular in many countries because of its remarkable structural efficiency as well as its aesthetically pleasing appearance. As opposed to the classical suspension bridge, cable-stays are directly connected to the bridge deck resulting in a much stiffer structure. The structural action is simple in concept: the cables carry the deck loads to the towers (pylons) and from there to the foundation. The primary forces in the structure are tension in the cable-stays and axial compression in the towers and deck; the effect of bending and shear is considered to be secondary.

The two main types of Cable-stayed bridges are Straight Cable-Stayed bridges and Curved Stayed bridges. Straight cable stayed bridges are classified as :

- a) Longitudinally spread pylon cable-stayed bridge(Y-shaped)
- b) Conventional A-shaped pylon cable-stayed bridge
- c) Intermediate side span support(ISSS) cable-stayed bridge
- d) Self-anchored cable-stayed bridge and partially earth anchored (Bi-stayed bridge) intermediate side span supports cable-stayed bridge.

Curved cable stayed bridges can be classified into:

- a) Curved cable-stayed bridge with different inclinations of pylon
- b) Curved cable-stayed bridge with backstays
- c) Curved cable-stayed bridge without backstays

Seismic stability of the pylon is another important consideration. When the

slender deck of relatively flexible long span structure is subjected to seismic excitation, depending upon mass distribution of deck, cables and pylon tend to induce both torsion and flexural oscillations in the bridge deck. Use of different shapes of pylon creates different length, inclination and plane of the cables, this result into complex behavior during seismic excitation. Tripod effect gives advantage in seismic performance. Many researchers have implemented damper systems and isolation mechanism for absorbing seismic excitation, but still the problem of controlling deck oscillation during seismic excitation prevails for long span and curved cable-stayed bridges.

In this work, various configuration of cable stayed bridge are modeled using SAP:2000 software and its behaviour under seismic excitation are studied. The dynamic effects are found out by studying the mode shapes of the bridge for various natural frequencies. Complex behavior was found out at higher modes. Very large variation of cable stress is observed during different earthquake time histories. Bi-stayed cable-stayed bridge has reduced cable forces and bending moment of pylon as compared to conventional cable-stayed bridge. It is seen that increase in inclination of pylon in vertical direction considerably increases the dynamic load effect and is highest for 75.25° pylon inclination. In the case of curved cable-stayed bridge, it is seen that back-stays play an important role. Without backstays, lateral sway as well as vertical bending of deck is experienced. Also, torsion mode is encountered in the earlier mode of the bridge. Thus we can conclude that the deck oscillation is mainly controlled by the back-stays.

Extra dosed cable-stayed bridge is found superior to conventional cable stayed bridge as it adds substantial pre-stress to the deck because of the shallow pylon and are found to be economical for spans up to 250 m. The Extrados is defined as the uppermost surface of the arch. Here, external tendons were placed above the deck instead of within the cross-section. The Girder Depth is less than that of conventional girder bridges. The height of pylon is half as that of cable-stayed bridge and hence easier to construct. The reduced cable inclination in an extra dosed bridge leads to an increase in the axial load in the deck and a decrease in vertical component of force at the cable anchorages. Extra dosed bridges are also characterized by a low live load stress range in the stay cables. Its seismic behavior is different than conventional.

To achieve longer span, best option is the cable-stayed suspension Hybrid Bridge, which is the combination of both the conventional cable-stayed and suspension in the single bridge configuration. As compared to suspension bridge, in cable-stayed suspension Hybrid Bridge with the same span length, the suspension portion can be greatly shortened. So, the tensional forces in the main cables are greatly decreased. As compared to cable-stayed bridges with the same span length, the cable-stayed portion is also greatly shortened. The height of tower, length of stays and the axial forces in the deck are consequently reduced. Its seismic behavior is complex.

As a lawyer, I have done remarkable technico-legal / forensic investigations for different collapsed building/bridges.

1. Investigation of collapsed building of Vyara Tichakpura School.
2. Technico-legal report for demolishing Old Hope pool on Tapti River.
3. At present working in technico-legal 5 member committee for new cable-stayed bridge on Tapti River (We have also proof checked Star-Bazaar Cable-stayed bridge), We also proof checks indoor and outdoor stadium, swimming pools, airport, docks, harbours, jetties, helipad, runway.

In Surat city, many buildings are having swimming pool at terrace level/all floor level, many high buildings are connected at terrace level, many buildings are putting generator and mobile telecommunication tower at terrace level, solar panel installation at terrace level, hoardings, etc. this type of addition will changes behaviour of original structure. We undertake this type of challenging problems. After Bhuj earthquake, our earthquake code was revised and showed higher level seismic risk for old building. We provide services for retrofitting/rehabilitation/strengthening of this type of structures. We have given many T. V. /Radio programmes for life safety of people during earthquake.

4. We are involved in investigation of collapsed bridged like Amroli bridge collapse, Athwa-Gate flyover collapse. Magdalla Bridge on Tapti River was damaged due to steamer impact. This damaged was rectified with our suggestion. It hanging for work was very challenging.
5. Recently, problem was solved for transmission tower in heavy flood, in

Narmada River. Four locations were checked which are actually within Narmada river. It was a very thrilling experience.

6. Many fire and flood damaged factory/residential buildings are investigated and strengthened.
7. Recently, Surat Court building was also investigated with NDT (non-destructive testing) and visual inspections.
8. Investigation of collapse of Firdoz building near Ring Road.
9. Investigating boiler/thermopack blasting in dyeing factory building.
10. Many times we helped insurance companies for damage claim.
11. Investigation of collapsed Hare-Krishna Appt., Bhatar, Surat after Bhuj earthquake.
12. I have given free services for recent Surat CCTV camera project. I have measured vibration during vehicle traffic and modified pole design for this was appreciated and certificate awarded by our ex-CM Mr. Narendra Modi.
13. I have given services for Narmada main Canal project in Surendra Nagar District for solving skew bridge for animal, mule.
14. Design of heavy water plant structure, Vadodara. These our designs were proof check by BARC.-Bhabha Atomic Research Center, Bombay.

Our department always welcomes challenging field consultancy problems. We add research component. We take help of our B. Tech., M. Tech., Ph. D. students for the solution in our guidance. This will help students to understand real field problems and their solutions. We give training to skilled and unskilled workers free of cost. Time-to-time our syllabus is also upgraded by department with help of industry and IIT. All our courses are accredited by N.B.A.

Department of Applied Mathematics & Humanities



Prof. Mehta M. N.
Professor & Head ,
Department Of Applied mathematics and Humanities
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Vision Statement

To develop analytical skill to translate the educational research of Mathematics and Humanities to the society.

Mission Statement

To become a Centre of excellence for research and training in the Mathematical sciences & Humanities for promoting the development and socio-economic impact as well as to solve important scientific, technological and social problems

Department of Applied Mathematics & Humanities Profile

The Department of Applied Mathematics & Humanities has been serving with distinction the needs of training young students for undertaking advanced teaching in Institutes of Technology and research in organizations involved in scientific work at National and International levels. The alumni of this department occupied high positions in teaching and research spread over India and abroad. At present department has the faculty consisting of Department of Applied Mathematics & Humanities, SVNIT, Surat.

one Professor, three Associate Professors, ten Assistant Professors and four Teaching Assistants on contract basis. The faculty is well qualified and is actively engaged in research in number of areas such as Numerical & Classical methods in fluid mechanics (Flow through porous media), Special functions, Integral Transforms, Approximation theory, Mathematical Modeling,

Magnetic Fluid Dynamics, Mathematical and Computational Biology, Bioinformatics/ Biomathematics/ Bio computing, Data mining, Finite element modeling, Post Modern Fiction, Indian English Fiction and Feminist Literature. Thirty six Research scholars have registered themselves for Ph.D in the Full Time/Part time category in our department. The department of Applied Mathematics has published number of research papers in National & International Journals of repute. The department of Applied Mathematics has successfully completed eight research projects sponsored by UGC/CSIR/INSA/SGU and organized several Conferences/ Workshops/ Symposia/ Summer/ Winter School. Around fifty candidates got their Ph.D degrees and eighteen candidates got their M.Phil. degrees in Mathematics from this department.

5 Years Integrated M.Sc. Programme in Mathematics has been introduced in our department since 2007 with an intake of 30 students which has been increased to 60 students w.e.f. 2014. A new separate building with all the necessary infrastructural facilities will be available to the department shortly which will enhance academic & research activities to a greater extent. This will help us to propose new academic programs in near future.

This year Two student were selected in reputed industries as per placement records. Others are working as Mathematics Teacher in near by institute and some are working as research scholars.

Department of Civil Engineering



Dr. P L Patel,
Head of Department Civil Engineering
Professor with specialisation in Hydraulics and
Water Resources Engineering is heading the
department since July 2013.
His brief achievement is appended below:

- **Vision of Department :** "To be a global centre of excellence for creating competent professionals in Civil Engineering".
- **Mission of Department :**
 - M1 :** To provide excellent education producing technically competent, globally employable civil engineers who will be leaders in the chosen field.
 - M2 :** To undertake research in conventional and advanced technologies fulfilling the needs and challenges of modern society.
 - M3 :** To provide consultancy services and develop partnerships with society, industry and public organizations.
 - M4 :** To organize seminar, conferences, symposia, and continuing education programmes for academic and field community.

The department of Civil Engineering is one of the pioneering departments since the commencement of Institute in 1961. Over the years, the department has progressed at a rapid pace with the development in both the spheres of infrastructure facilities and faculty members. The department has highly qualified faculty members engaged in teaching and research with the aim of achieving excellence in various fields. The department offers UG programme in Civil Engineering with 100 students' intake in Academic year 2014-15. The department has actual strength of 28 against sanctioned strength of 37. The Department offers following four Post Graduate Programs in Civil Engineering :

- ♦ Environmental Engineering (EE)
- ♦ Urban Planning (UP)
- ♦ Transportation Engineering and Planning (TEP)
- ♦ Water Resources Engineering (WRE)

The growth of PG programmes over the last few years is described in Fig.1

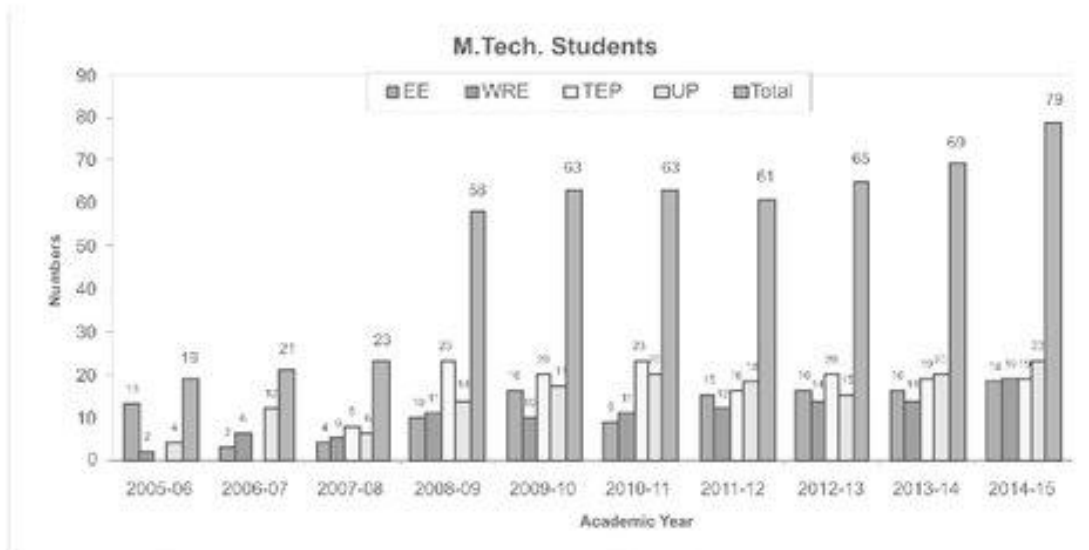


Fig.1 Growth of PG programs in Civil Engineering Department

The department also offers PhD programs in all the area in of PG programs. The growth of PhD programs in the Department is shown in Fig.2

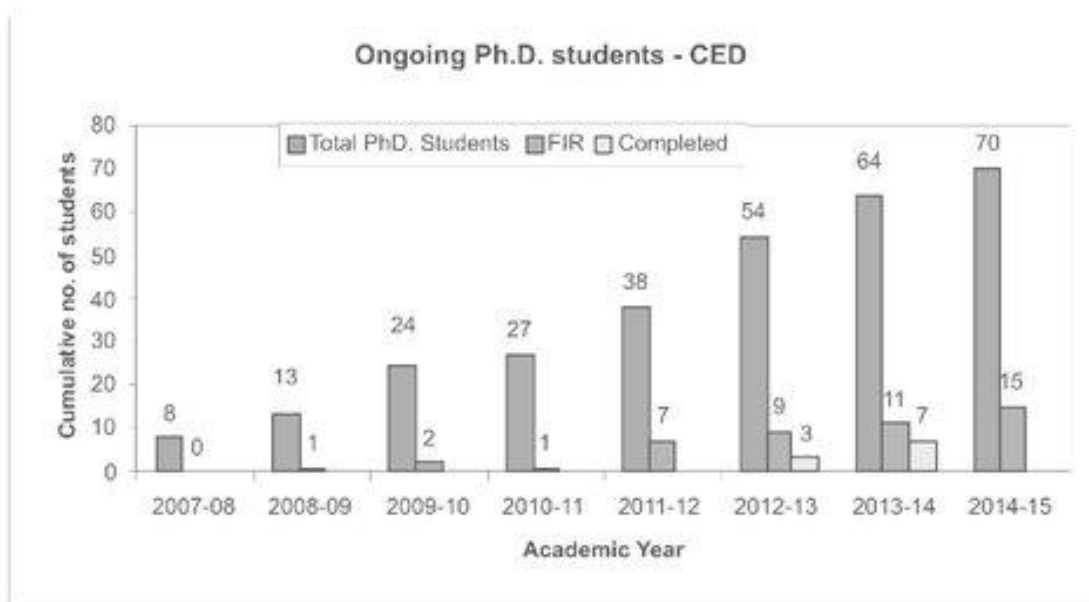


Fig.2 Growth of PhD Program in Civil Engineering Department

The department is pioneering in undertaking the Research and consultancy projects in their area of specialisation. The growth of Research Projects in recent years is included in Fig.3

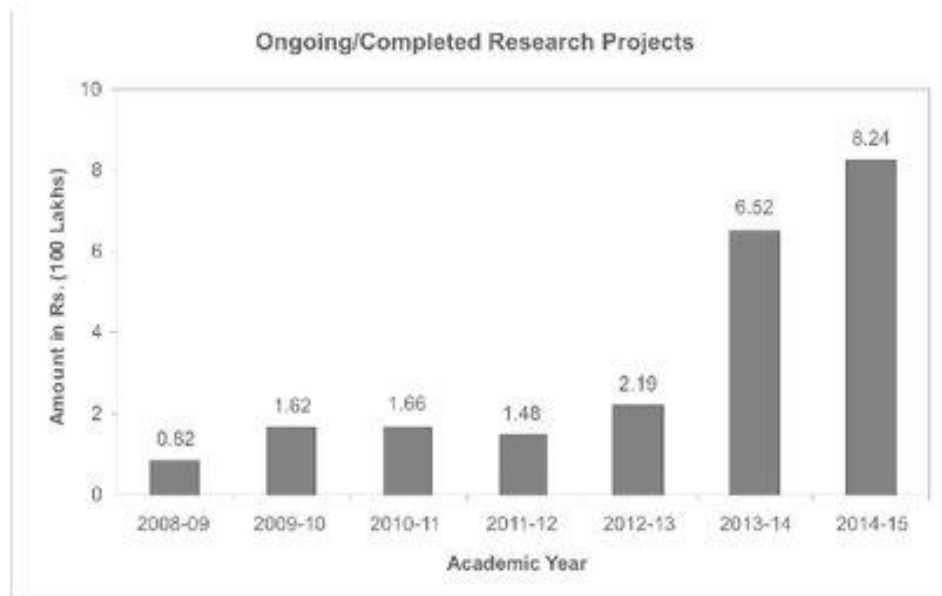


Fig.3 Ongoing/ completed Research Projects in Department of Civil Engineering

The department of Civil Engineering is honoured to have the funding of Rs. 5.00 Crores for establishing Centre of Excellence (CoE) on Water Resources and Flood Management' from TEQIP-II, MHRD, Govt. of India. The purpose of the CoE is to

- a) Develop 'Early Warning system of the Surat city'
- (b) Develop world class hydraulics and computational laboratory in the department for training the students, field Engineers on the theme of the project
- (c) Develop National and International collaborations and interaction with academic, Field and research organisations.

The department is developing laboratory in the specialised filed. Few selected Photographs of the laboratory facilities are included in Photo-1 and Photo-2



Photo-1 Sediment Transport Flume in Advanced Hydraulics Laboratory

The department of Civil Engineering has already requested few renowned Alumni of the Department to be part of Departmental Academic Advisory Committee (DAAC), and share their field experience by delivering the expert/invited lectures to our UG/PG students. We are also happy to inform you that one of our experienced Alumni Shri Samir Shah,



Photo-2 Bump-Integrator (Transportation Engineering Laboratory)

Experience : Started his services through Indian Engineering services in Sep.1995 and served four years as Asstt. Executive Engineer (Civil) in Border Roads organisation. He started his academic assignment as Associate Professor in Delhi College of Engineering w e f July 1999, and serving SVNIT Surat as Professor w e f Dec. 2007. He has more than 90 Technical Papers in peer reviewed Journals and conference proceedings. He has guided Three PhD Theses (08 ongoing), 25 M Tech Theses and during his academic assignments at DCE and SVNIT. Presently he is handling Research Projects worth Rs.6.75 Crores and challenging consultancy task worth Rs.50 lakhs.

DEPARTMENT OF ELECTRICAL ENGINEERING



Electrical Engineering Department is one of the pioneering departments of the Institute. Over the years, the department has progressed at a rapid pace with development in both the spheres of infrastructure facilities and academic programmes. The department has highly qualified faculty members engaged in teaching and research with the aim of achieving excellence in the field of Electrical Engineering. The consultancy and testing services are also rendered by the department. Department have always maintained a policy of providing students with state-of-the-art systems with regularly upgraded curriculum. Existing area of the Department is 2017.54 sq. m. and area of upcoming new building of Electrical Engineering department is 8326 sq.m.

- **ACADEMICS** : The department offers Under Graduate course, B.Tech. in Electrical Engineering, since 1961, which is accredited by NBA for 5 years with effect from 19-07-2008. Application submitted in June, 2014 to NBA for approval of accreditation is under process. The department has started a PG programme M.Tech. on Industrial Electronics in 2006 which was renamed as Power Electronics & Electrical Drives and accredited for two years with effect from 01-07-2014. The Post Graduate programme M. Tech. in Power Systems has been started in the year 2012. The department offers Ph.D. programme to promote basic research activities in the various areas of Electrical Engineering.
- **MAJOR SOFTWARE** : Opal RT Lab RT Lab, PSIM, Lab View, dSPACE, PSCAD, ETAP, Oersted Lorentz etc.

- **MAJOR EQUIPMENT** : Grid Synchronized Inverter, Two Axis Servo Motor Drive, 32 bit Cortex M4 Microcontroller development Boards, SI Lab Microcontroller, Advanced Drives – PMSM, BLDC, SRM, IM, Servo drives, DC-DC Converters – Buck, Boost, Flyback, Forward, Resonant, Test Bench for Motor, CT/PT, Energy Meter Testing, Different Protection and Synchronizing Panel etc.
- **RESEARCH AND CONSULTANCY** : Development of Laboratory for academic institute, Design of Energy efficient Electrical Machines, Development of Electrical Testing Laboratory at client's Premises, Design of Power Electronic equipment, Energy Management, Class room training to graduate trainee engineers etc.
- **TESTING WORK** : Wheatstone Bridge, Kelvin's Double Bridge, Ammeter, Voltmeter, Energy meter (kWH meter), CT, PT etc Department generates significant revenues from testing work.
- **OUR CLIENTS** : Surat Municipal Corporation, Navrachna University, Nelson, Reliance Industries, Nana Udyog, DGVCL, Shreeji Electricals and more than 50 companies.
- **FACULTY** : There are twenty permanent faculty members in the department, twelve are having Ph.D degree, faculty members are engaged in research in different areas like Power system, Control, Power electronics, Instrumentation, Machine, Drives, High voltage, Renewable energy etc.
- **PUBLICATIONS** : Since 2010 department has published 97 papers in international journals, 94 in international conferences, 26 in national journals, 31 in national conferences, and 5 book chapters.
- **STTP and CONFERENCE** : Department conducted 19 short term training programmes and one national conference in last three years.
- **STUDENTS' CHAPTER** : Electrical Engineering Society (EES): A Platform for students to nurture their talent. EES organises Technical Events, Quiz, renders service to Community. Society conducted six events last year.
- **ALUMNI** : Department is proud of its alumni, they are in respectable position in renowned institutes across the globe. They are serving as faculty member in universities, as vice president and managing director in well known organisations, above all a reasonable number of alumni enjoy entrepreneurship.

Innovative Research and Consultancy In Structural and Geotechnical Engineering



Dr. Mrs. Upena Dalal
Head, ECED

Electronics Engineering Department-Highlights 2014

Born in 1982 and received its independent status in 1988-89, The Electronics Engineering Department has earned a reputed status over the years. The Department has progressed at a rapid pace with the development in the spheres of infrastructural facilities and advanced syllabi both in Electronics and Communication fields. The Department offers B. Tech., M. Tech. (CS), M.Tech. (VLSI and Embedded Systems) and M. Tech. by Research, as well as Ph D Programs. Presently 5 faculty members are holding Ph D and 7 are about to complete. The progress can be seen from the brief timeline of the Department given as follows along with the existing permanent faculty members:

1982-83	: ➤ B.E. (Electronic course was offered by Electrical Engineering Department, first batch was admitted with intake of 30.
1987-88	: B.E. Intake increased to 60.
1989	: ➤ Separate Electronics Engineering Department on the first floor of Electrical Deptt.
2002	: REC to NIT convention.
2005-06	: ➤ M. Tech. (CS) started with a strength of 5 out of 18. ➤ B. Tech. seats increased to 140 made two divisions. ➤ Enrolment of First Ph. D. Candidates.
2006-07	: ➤ M. Tech. strength increased to 16 out of sanctioned intake of 18.
2008-09	: ➤ M. Tech intake increased to 25 (20 sanctioned + 5 sponsored), Second Ph. D. enrollment 2012-13:
2012-13	: ➤ M. Tech. (VLSO & EMB. Sys) Started (intake 25)



Fig.1 Faculty members of EC Department

Research activities are resulted in good paper publications in the reputed journals. Also, Department has interactions with, ISRO, e-Infochip, Agilent technologies and Keysight, Automation Systems, Scientech, Freescale Semiconductor, DRDO, Indian Navy etc. Department has developed special laboratories under SMDP, DRDO and DST grants and also a Center of Excellence in RF and Wireless is in pipeline. With the new building, the Department is now in a phase of expansion and development of new laboratories-- Basic Electronics Lab, Electronics System Design Lab, Circuit Design Lab, Microprocessor and Embedded System Lab, Optical Fiber Lab, Sensor Lab, Characterisation Lab, Digital Electronics Lab, PG Lab, 24x7 Design Lab, Signal Processing Lab and Simulation Lab. The Department will be divided into UG and PG sections very soon. Some of the activities are highlighted in the figures below.

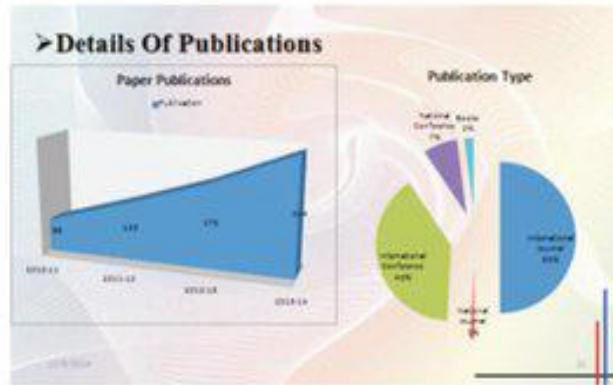


Fig.2 Publication of research



Fig.3 Workshop by Miroslav Skoric



Fig. 4 Visit of Indian Navy for MoU

The Department records 5 book publications and 1 book is ready to publish. Department organized 1st IEEE International conference ET2ECN in 2012, and 2nd IEEE ET2ECN in Dec. 2014. Wishing the best regards for faster growth of the Department.

CIVIL ENGINEERING SOCIETY

Civil Engineering Society has been working to give a platform to the rising and obscure ideas of the young students. In the previous year so many events were conducted by CES. They were Auto-CAD workshop for the students and approx. 300 students had participated in it. Another event was Urbanistica, A town planning event which was there for the students of all the branches to test their skills in planning a town and Treasure hunt, in this more than 200 teams (3 members in each team) approx. 600 students out of which 40 teams were from other colleges had participated.

This year CES launched its first ever technical fest KAIZEN. It was held from 4th to 6th November this year,

November 4th : Inaugural of Kaizen 2014, With an expert lecture of Mr.Bharat Patel sir, The lecture Optimization of structures was very helpful to solve and learn various concepts of structures designing.

November 5th : a workshop on Green building by faculty advisor of CES Dr.N.J.Mistry sir, Expert lecture of Mr.Hitesh Desai sir on special features of Soil engineering, Informal events, Huge success, appreciated even more than the 1st day by many.

November 6th : Expert lectures of Dr.G.J.Joshi sir on Transportation system, planning and management and another by Dr.Atul.K.Desai sir on Recent trends in structural designs, various technical events like eco-campus which experienced a very well participation, Mega quiz was also there in various rounds and more than 100 teams (2 members in each team) were participated, Mock placements were conducted by Training and Placement section of SVNIT in various rounds like GD then personal interview, this was also a huge success. Apart from them, Exhibition of eco-friendly buildings and designs of various structures were also conducted for 3 days and Auto-CAD workshop also conducted for 3 days, almost 220 students had participated in it. And on the final day of Kaizen, all events come to an end with declaration of the winning teams everywhere with their prizes and certificates. CES also have arranged orientation session for B.Tech 1st yr. students as well as B.Tech 2nd yr. students with the idea that what civil engineers can do and what can be expected of them.

In the next semester we have planned to conduct special events for designing which will bring out the creativity of students and find out the solutions to most of the challenging problems faced by civil engineers, And yes, the expert lecture series with

the help of Alumni Association will also be organized to help out students to gain practical knowledge related with field.

The events will also be designed to keep in mind of all fields of civil engineering so that students will be comfortable with the problems which they may face in the future.



ELECTRICAL ENGINEERING SOCIETY

EES, the Electrical Engineering Society is a young student chapter in SVNIT. It aims to organize student centred technical and non-technical activities. In order to provide a platform for knowledge sharing and intra-departmental Social interaction.

Formally launched in April, 2014 with a "Techno Cultural Extravaganza", EES has escalated quickly. In the very first year, EES has witnessed quite a success. Mega Quiz was held in October, in which over 150 teams participated. DEXTRIX was organised in November with an intention to imbibe a sense of familiarity with Electric machines and equipments, by opening them up! This too received a good response with more than 200 registrations. Workshops on C++, Lab view have also been conducted so far. A mentor system has been set up so as to improve the interaction among students. EES plans a lot for the year ahead. The focus is not only on getting sound technical knowledge and experience, but also on Cultural and social activities necessary for overall personal growth. Applications of embedded systems, Cleaner energy technologies (Like the solar PV) will be among the many themes for events. An event based on Ideas and Project Presentation is also planned that will use a student's theoretical knowledge to make real-world models. Apart from the technical stuff, some cultural events are also to be organised, to bring out the hidden among the students.

It is an ambition of the EES to make every involved student capable to take responsibility as an Electrical Engineer and Contribute towards the society.



SAE SVNIT

SAE SVNIT Collegiate Chapter is the largest collegiate chapter of Society of Automotive Engineers India Section. Established on 21st April 2003, SVNIT Collegiate Chapter has exceeded expectations within a few years with activities like Collegiate Design Competitions, Paper Presentations, Expert Lectures, Industrial Visits, Automobile Quizzes and Workshops on Latest Technologies. With all these, it has become an apt platform for students to extrapolate their knowledge to their practical limits.

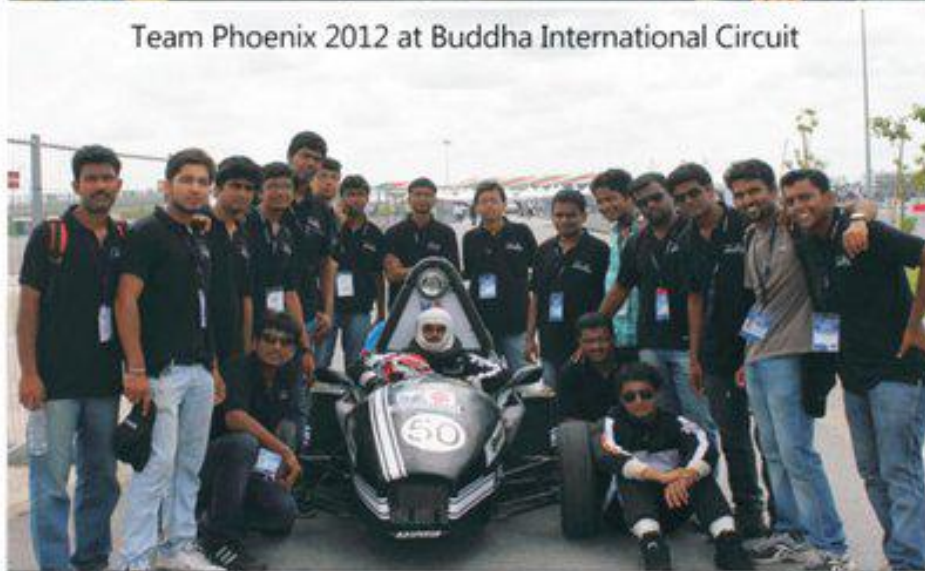
SAE-SVNIT is ranked top SAE Collegiate Chapter in India, which comprises of 57 technical institutions all over the country including the prestigious IITs. And to keeping true to its name, it organizes workshops, lectures and industrial trips to various automotive plants and organizations from time to time, besides organizing an exclusive national level automotive festival on campus, AUTOFEST. The collegiate chapters of SAE focus on making students an entrenched part of the developments of the automotive industry and encourage novel thinking among them. Since its inception in the year 2003, SAE-SVNIT has been one of the most active Collegiate Chapters in the Western section of SAE India, moving on to be the largest SAE Collegiate Chapter in the country with more than 440 members.

Team SVNIT has already proven its mettle on intl. standards by bagging the Chairman's Award in MINI-BAJA 2006 held in Portland, USA, a contest of all-terrain vehicles designed by students around the globe.





Team Phoenix 2012 at Buddha International Circuit



Achievements :

1. 2014 Phoenix : Raced at Kari Motor Speedway , Coimbatore
 Stood : 2nd in Preliminary Design Evaluation • Placed 30th Out of 84 teams
2. 2012 Phoenix : Raced at the Buddha International Circuit, Delhi
 Stood : 1st in Cost Report, 3rd in Acceleration Test, 4th in Skid Pad
 5th in Overall Ranking • 6th in Endurance Test
3. 2011 Phoenix : Stood : 1st in Presentation, 2nd in Cost Report
 4th in Overall Performance
4. 2011 Ekalavya : Implemented 4-wheel drive Steering
5. 2010 Anshumat : Participated in BAJA SAE 2010 - Stood 5th overall among 80 teams
 3 top10 finishes in Individual Events
6. 2009 Ananya : India's first Self-Contained Series Hybrid Vehicle
7. 2009 Yuyutsu : BAJA SAE India, 2009 - Placed 20th out of 59 teams

DRISHTI

DRISHTI is a technical hobby club of SVNIT, started in 2002 that has been involved in all technical activities carried out in the college and is managed by Faculty Advisor Dr.M.A.Zaveri. Take the countdown timer for the Mind-bend and the sensor based electricity control system which is being installed in the various parts of the college, as the epitomes of DRISHTI projects.

DRISHTI has been the driving force in igniting the young minds of SVNIT in taking up various technical projects. It boasts of providing a platform to the students where they can collaborate, carry out technical projects and can see their most creative and innovative ideas, and thus their dreams materialize.

DRISHTI promotes student participation in nationally recognized technical festivals like Techfest-IITB and Kshitij-IIT Kharagpur. Drishti has also been representing SVNIT at the Asia- Pacific international robotics competition, ROBOCON since the last 7 years.



Workshops : • Manual Robotics • Autonomous Robotics • Rubik's Cube • FYI
 • Mysterious spots • Defense Machineries

Events and Competitions we conducted : • Tech trivia • Sci Q • Techno Contrivance
 • BurjKhalifa

Projects: • Propeller Display • RC Plane • Quad copter • PIR based room energy saver
 • Liter of Light for MINDBEND'13

In this manner DRISHTI has been involved in many technical activities going on in the college. This year many projects implemented and many are ongoing.

RRTS - [RAPID RICKSHAW TRANSIT SYSTEM]



UTPAL A MISTRY,
B.E 1989 EC | M. Tech 2010 EC)
(PRESIDENT, SVNIT ALUMNI ASSOCIATION)

In India, we can't think of our transport without a Rickshaw. It has become inevitable but at the same time very annoying due to its undisciplined drivers having little traffic senses.

- **WHAT'S THE IDEA ?**

Generally Rickshaw is used by all people whether they are poorest or richest but may be BRTS will be used up quite less and it will be quite inefficient for city like SURAT with growing prosperities and narrow roads. At the same time Traffic logging on the sides of road will be automatically removed as this space will be available exclusively for RRTS. Plus the big wide road currently available for BRTS will be used by fast moving traffic like 4 wheelers with a disciplined approach.

RRTS can be the key... and then any other MTS (Mass Transport System like TRAM, SUBURBS etc. for long distances). To have a car has become necessity. It is no more a status symbol. The problem of car parking has become very difficult issue in every city as number of cars is increasing day by day. In many streets, the existing independent houses are getting converted to apartments/commercial establishments with limited parking space. Visitors/Guests who visit these places are forced to park their vehicles on either sides of the road. Perhaps it's time to go further and create a new system to overcome traffic and parking problems. This is not far. The suggestion is just enough wide road (double the width of a Rickshaw) on both side of the main road, which can hardly occupy a 10 feet's on either side. At all junctions near to 200 meters, this road widens by say 2 to 3 feet further for allowing overtaking for Rickshaw, while on most of the stretch of the road, one Rickshaw cannot overtake each other or maximum by 2 Rickshaw's wide. Slow moving traffic like bicycles can be also included in this road.

- **NUMEROUS ADVANTAGES**

- ♦ Rickshaws are very efficient when point to point transport is needed.
- ♦ We cannot think of a transport system without a Rickshaw.
- ♦ They are the most in disciplined and no law can rectify them now.

- ♦ If they are removed from the main Lane, the big vehicles can be asked to follow the traffic rules and they will definitely obey for a huge fine otherwise.
- ♦ Even the richest or poorest will go in rickshaw as this is one of the best means today.

- **EMERGING INDIA?**



The innovative solution called "Rapid Rickshaw Transit System" A parking ban should be implemented on residential streets, by making the streets as Rapid Rickshaw Transit System and the same can be implemented in commercial areas. RRTS can help to cut down on the amount of traffic on the road. Owners of residential and commercial spaces should reserve and create enough parking space as for the requirement instead of encouraging people to use public places for parking.

Cars parked on either sides of the street are clogging the road. City traffic police should pass a rule that no parking on public roads for long hours, cars parked on either side of the roads should be towed away. City traffic police should stand strong against local residential communities who oppose it.

The penalty for violation of rules and regulation must be viewed very seriously, should attract heavy penalty and cause inconvenience to the violators. Creating parking bays wherever absolutely necessary and put forward some of them for allotment, first to the owners of the area against certain fee and the rest reserve it for public parking for short duration.

Awareness through NGO's, Student and Youth organizations on below mentioned tips: "Have a Driving Sense along with your License". Walk to the nearby market instead of driving.

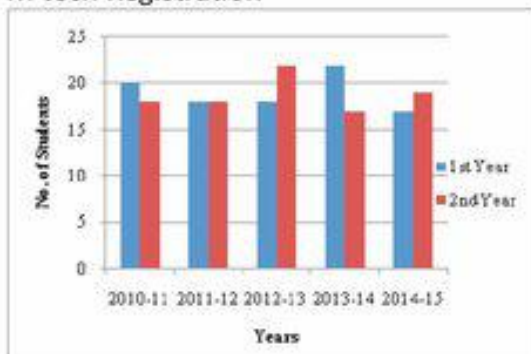
Applied Mechanics Department-Highlights 2014



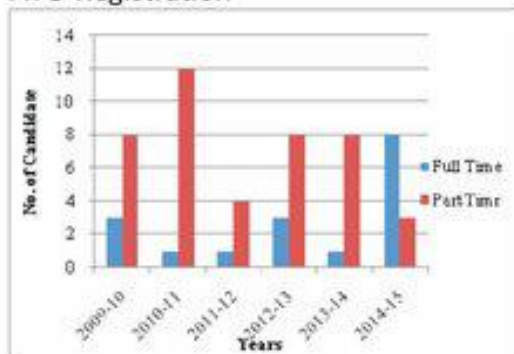
Dr C D Modhera,
Head,AMD
(B E Civil, M E Structural Engg., Ph D)

The department of Applied Mechanics is the backbone of Civil Engineering Programme. It is an independently functioning department, dedicated to the specialized areas of Structural Engineering and Geotechnical Engineering. The basic courses of Engineering Mechanics and Mechanics of Solids are offered to the undergraduate students of all the branches of engineering. The department takes pride in pioneering post graduate course in the fields of Geotechnical Engineering and Structural Engineering, since 1973 and 1974 respectively. These courses are approved by AICTE and have been earlier accredited with 'A' grade awarded by NBA, New Delhi. Our post graduate alumni are serving at various national level organizations and some have been successful entrepreneurs in the fields of geotechnical and structural engineering. The department boasts of dedicated team of 22 faculty members. More than 12 faculty members have teaching experience ranging from 23 years to 38 years. The group of seven doctorate professors are supervising other faculty members to achieve Ph.D. during upcoming years.

M tech Registration

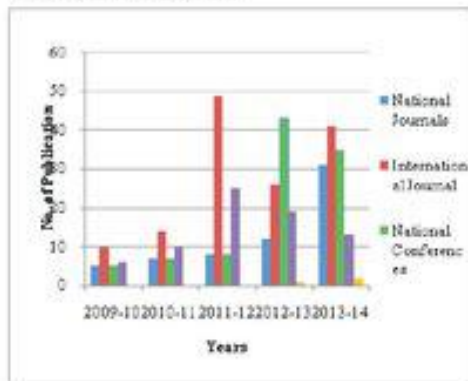


Ph D Registration

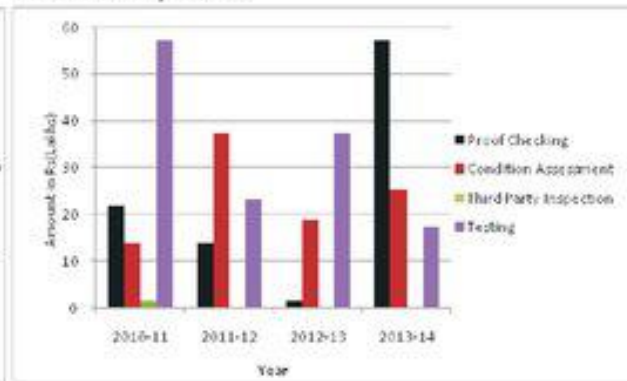


The department has well equipped laboratories to conduct experiments at undergraduate, post graduate and research levels. These laboratories are (i) Computer Lab (ii) Strength of Material Laboratory (iii) Dynamics Laboratory (iv) Concrete laboratory (v) Engineering Mechanics Laboratory (vi) Heavy Structure Laboratory (vii) Prestressed Concrete Laboratory (viii) Geotechnical Engineering Laboratory (ix) Structural Analysis laboratory (x) Photo elastic / Experimental Stress Analysis.

Publication Detail



Consultancy Detail



The testing of engineering materials including soil exploration has been one of the highly appreciated activities of the department since 1969 .Apart from above mentioned activities, the department has the unique distinction of organizing national conferences, seminars and short term training programmes for the enhancement of faculty members in the western region. More than five national level conferences, over 20 short term training programmes have been conducted during the recent past. The faculty members of the department have also been shaping the development of the institute by shouldering responsibilities as Hostel wardens, Professor In-charge of various activities, Deans and Institute level committees, to name a few. Overall, the department of Applied Mechanics presents a picture of a small but fully dedicated and devoted faculty contributing to the all round growth of students, institute, industry and society. Wishing the best regards for faster growth of the Department.

- ◆ Date of Birth: 02.03.1966
- ◆ B E: 1989 SVRCET Surat
- ◆ M E: 1992 SVRCET Surat
- ◆ Ph D: 2001 IIT Bombay

Publication: 70 Nos. in International & National journals(4 Papers in SCI Journals)



K L Mattoo

I Shri Kanayalal Mattoo residence of Srinagar Kashmir after passing my graduation in Science applied for the seat in REC Surat. The college started in 1961. I as selected on all India basis from the J&K quota. I had never been out of my city. It was the first experience for me to travel all alone. Those days train connection was from Pathankot, Punjab. We had to travel by bus from Srinagar to Jammu first and then board another bus to Pathankot.

It was my first experience to travel by train from Pathankot to Surat at the age of 18 years. I was even misled by some passengers that Surat station had already passed. I became very panicky. After reaching Surat I was admitted in the college hostel at S S Gandhi polytechnic. I was probably the only boy in the hostel for some time. Since it was my first experience to be out of my house I felt lonely and continuously had to stay for 15 days. Finally other boys started joining me.

Since the REC Surat was located in S S Gandhi Polytechnic, it had very little infrastructure to meet the engineering college status.

The course of study was only of 3 years duration. As to LD Engineering College of Ahmedabad and Morbi were affiliated to Gujarat University, our college was then affiliated to the same university.


When I passed my message to my father that we have 3 yrs course here, he asked me to report that to home as it appeared to be a polytechnic course. I had to meet personally the then Principal of college Mr. J K Desai to get a certificate that I am studying in the college under the curriculum of 3 yrs degree engineering course. Then only my father was satisfied and allowed me to continue.

About 120 students joined the 1st year course combined of civil, mechanical and electrical. 60 students were from outside Gujarat state. During the course of my studies, out of 120 students only 24 students reached the final year in all the disciplines. 15 students passed out in final; 3 from civil, 5 from electrical and 7 from mechanical, I suppose.

It was difficult in those days to come up in a situation where there was very little infrastructure available to us.

After my completion of the course I joined as Assistant Engineer PWD of J&K Govt in 1965 and rose to the level of chief engineer and retired in February 2001 at the age of 58 years.

After that I didn't feel like walking further and have been enjoying my life by touring places in India and overseas from time to time and gaining experiences of life. I am enjoying this thoroughly. About my family I would like to say that I m married with 2 sons. Unfortunately I lost my wife in December 2007. Both of my sons are engineers and are working in MNC.



O see heart she is coming,
Her tresses are flowing like clouds in the sky,
Her eyes are twinkling like stars in night,
Her face is glowing like lotus in sight,
Her walk is like queen of state
Wait my heart, she will be soon with you&you only.

Posted at SVNIT library in 1980



SCIENCE, TECHNOLOGY AND INNOVATIONS

I will keep the lamp of knowledge burning
To achieve the vision-developed India.

- A.P.J. Abdul Kalam

India is a developing country and it seems it will always be the same if transformation does not take place. Our scholars can claim that we are good at basic sciences but how about its applications. The talents that India is producing is eaten away by western countries since past few years.

We are depending for technology on other countries like USA, JAPAN etc. Lots of our foreign exchange is spent on importing technology. Our Doctors and Engineers prefer to go to professional careers to earn handsome money. Then, How to deal with basic problems of our country? How do poor people get advantage of the technology? How does the advantage of technology will reach to every Indian citizen?

The solution lies in Infrastructure development and Research and developments. In India the money spent on R& D is very less, may not be even 1% of GDP. Both Public and Private sectors are spending most of the money in manufacturing of goods and services but very little on R& D. Government of India must come with many more Institutions for Pure and Applied Research. The innovations are the key to the development. The government of India must encourage the industries and firm which are using innovation in their productive activities.

Young scientists must be appreciated for their new innovative ideas and research. Many students want to go for research and development work but their laboratories are not fully equipped, sometimes they have wait to get instruments for years.

As our former President A. P.J. Abdul Kalam rightly said that innovations must reach to every door steps if we want our India to be Knowledge Super Power. The IISc, IITs, NITs and Indian universities must be with innovation centers and government must fund and support innovative projects.

One Serious step towards R& D would ultimately mean a Giant leap for mankind.

Paras Doshi (1983 –E)

HYPN SYSTEM Vs POWER SAVING

Now a days every segment power saving is required. But it is difficult to understand how we can save the power in our day to day life. In more cases we know the way of saving but we are not able to do it .Because, it can notbe done by a single person or by a single family. If we are able to understand together and with the help of any Technical advisor or agency then we can save power for our nation.

Now, we are all living in high rise buildings having multi storage accommodation where we are using water and electricity also. There is a big relation between the water consumption and consumed electricity for the same for which we are using more power. We can reduce this power factor. But for this, some changes in pumping system are required by which we can save power and this can be made possible by using the Hydro Pneumatic Pressure Boosting System-(HYPN System) for the water supply. Now the questionarisesWhatHYPN systemis?... and... How it will help us in power saving as well as fulfil our water requirements ?....

A brief description for the HYPN system is mentioned below to know more about its application and benefits....



What is HYPN System :--

This variable speed VFD controlled booster system is a sophisticated system, composed of latest technology PID / PLC variable speed control cabinet and ,more than two sets of parallel pumps. It can be automatically adjusted to full fill the requirement of constant pressure, variable flow water supply. The pressure of the

water supply pipe network keeps constant and the whole water supply system always keeps the best state of high efficiency and energy saving there are two types of water supply, one is frequency conversion, the other is by pressure. Water supply by frequency conversion can automatically adjust the rotating speed of one pump or start/stop pumps, which is the best way to keep the pipe lines constant pressure, easy to operate.

Application -

- ◆ Water supply for high rise buildings, residential complex & villas.
- ◆ Public places such as hospital, school, gymnasium, golf court, airport.
- ◆ Commercial building such as hotel, office building, department store, large-scale sauna
- ◆ Irrigation such as park, amusement park, orchard, farm
- ◆ Manufacturing industry such as textile manufacturing, food & pharmaceutical industry.

Advantages :-

- ◆ Solve the problem of low hydraulic pressure.
- ◆ The booster keeps the water pressure stable in whole building.
- ◆ Avoid water pollution caused by roof tank
- ◆ Replace the traditional water supply way, eliminate the source of water pollution.
- ◆ Reduce the construction and enlarge the space.
- ◆ Eliminate traditional roof tank, reduce the stress of building, structure is simple, lower cost.
- ◆ Save power and less space.
- ◆ Compared with common water supply equipment (Pumps), it may save more than 30 to 40% electricity energy. This equipment covers less floor area, its installation is simpler and construction period is shorter.

There is much more advantages of the HYPN system which we can achieve by case studies and be sure we can save the power by using this sytem in our residential sectors for Water supply. If we together join our hands AND save some SMALL POWER then one day will come and we can say thatWE SAVE MORE FOR OUR NATION.....

By : Mr. Deepak Kumar-(Director) (JYOTI PUMPS AND WATER TECH,SURAT)

Are we self-destructing our world? - A reality check on environmental issues

Er. Nihar Doctor

Consulting Engineer (Civil-1989)

Being an environmental professional, I have always encountered pessimism in discussions about environmental status of our region, our nation and also of the world in general. About ever growing population with limited food, polluted air and water, species going extinct, disappearing forest, climate change. Discussions end with almost certain conclusion – we are self destructing. The question remains only when. If this is true, the question one need to ask is how many of us would like to travel back in time and stay in the world, say about 500 years before today? With less population but more starvation and contaminated food. With purer environment but having to drink untreated water. With no electricity or fossil fuels around. With no climate change but even lesser means of protection against hostile climate.

There can be no justification for criminal waste of resources or indiscriminate pollution of air and water, but the fact remains that we definitely live in a better world today than that of the past, and the future of mankind does not seem to be as bad as it is pessimistically predicted. Let us understand this point by point.

Are we progressing?

We have experienced fantastic progress in all important areas of human activity. We have never lived longer – life expectancy has more than doubled during the past hundred years – and the improvement has been even more pronounced in the developing world. Incomes in both industrialised and developing nations have at the same time tripled over the past 50 years and poverty incidence has decreased. On average, we have become much better educated, and the developing world is catching up with the industrialised world in this respect. This is not to say that there are no problems. Things are not every where good, but they are better than they used to be. The world at large, the developing countries in particular and even the troubled areas of Africa have all experienced progress.

Are our resources limited and going to run out of supply?

Our consumption of the essential resources such as food, forests, water, raw materials and energy seem to have such characteristics that it will leave the coming generations not with fewer options, but rather with ever more options. Our future society will probably be able to produce much more food per capita, while not threatening forests – or perhaps even allowing us to allocate more space and money to reforest the Earth to achieve higher living standards. The evidence does not seem to point to tight limits on resources such as water and raw materials, and with sufficient energy in the long run both can be available in the necessary amounts. Consequently, there does not seem to be any foundation for the worried pessimism which claims that our society only survives by writing out ever larger checks without coverage.

Is climate change a reality?

Of course it is. Rising global temperatures is a phenomenon proved beyond doubts. But, we have to realise what we are arguing about – do we want to handle global warming in the most efficient way or do we want use global warming as a stepping stone to other political projects. We should not spend vast amounts of money to cut a tiny slice of the global temperature increase when this constitutes a poor use of resources and when we could probably use these funds far more effectively in the developing world. This connection between resource use on global warming and aiding the Third World actually goes much deeper, because, as we saw above, the developing world will experience by far the most damage from global warming.

Since cutting back CO₂ emissions quickly becomes very costly, and easily counterproductive, we should focus more of our effort at finding ways of easing the emission of greenhouse gases over the long run. Partly, this means that we need to invest much more in research and development of solar power, fusion and other likely power sources of the future.

Are our water and air pure?

If there is one aspect of environment around us which matters most to us and is the most critical one is pollution in our air and water – and in our environment. As a developing country, our focus has been on economic

development. We are making same tradeoffs (priority to development over environmental degradation) developed countries made 100-200 years ago. It turns out that when we look at the problems over time, the environment and economic prosperity are not opposing concepts, but rather complimentary entities: without adequate environmental protection, growth is undermined, but environmental protection is unaffordable without growth. It is reasonable to expect that once adequate economic growth is achieved, we will opt for and be able to afford a cleaner environment.

Is a piece of sky missing? - The Ozone Hole

In 1985, a new environmental problem was suddenly on everybody's lips – there was a hole in ozone layer above the arctic. In upper atmosphere(stratosphere), a thin ozone layer protects people, animal and plants by filtering out harmful ultraviolet rays from the sun. The ozone depletion was caused by man made chlorofluorocarbons (CFCs) which were extensively used in refrigerators, spray cans and air conditioners because they were cheap, chemically stable and completely non toxic. Immediately many of the nations that produced and used CFCs met in Montreal and agreed by means of the Montreal Protocol to limit the use and phase out production of CFCs. It is estimated that recovery of ozone depletion must have begun now owing to the declining chlorine and bromine levels in the atmosphere. It is encouraging to note that we are able to recognise new and unexpected dangers and that the human species can come together for such a cause.

Thus, majority of these indicators suggest that we have vastly improved, but, in no way it means that we are good enough. When things are improving, we know that we are largely on the right track. May be not at the right speed.



Col. Jasbir Singh (Retd.) 1968 Batch
BE (Civil), FIE, FIIBE, FIV, MIMA, MIME
Chartered Engineer, Govt. Registered Valuer

Joined SVRCE now SVNIT in June 1965. The college was functioning from Gandhi Engineering College. The college shifted to the present location when we were in the second year.

As the number of students was quite less there was a lot of camaraderie among all of us. I represented the college in the Inter University Badminton Championship and also took part in the Inter Regional Engineering College Championship held at REC Warangal in 1966. Also took part in Inter College Athletics of South Gujarat University.

I was selected for commission in the Indian Army through the University Entry Scheme in Feb/Mar 1967 and was granted Short Service Commission on 18th June, 1967 in the final year B.E.

Joined Indian Military Academy, Dehradun after completing my BE in January, 1969 and was granted regular permanent commission on 21st December, 1969 and posted to the Bombay Sappers.

During my Army Service I have taken part in the 1971 Indo-Pak War on the Western Front. We had crossed the IB and gone 20 Kms inside Pakistan. Later in January, 1972 while lifting a minefield I stepped on a land mine and lost my left foot and was hospitalized for seven months.

In September, 1972 I got posted to the Military Engineer Services at Nagpur. Have held various appointments of AGE, DCWE, GE, Commander Works Engineers and Additional CE with Border Roads Organisation. Was second in command of an Engineer Regiment in field area. I have attended all the mandatory courses viz Company Commander, Regimental Commander and Advanced Works Management Course at College of Military Engineering, Pune.

I retired from service on 30th September, 1997 after 28 years of service in the Army. On retirement I joined a MNC as a Project consultant and quit after four years. At present I am leading a retired life and managing the financial affairs of my daughter Mona Singh who is a TV / Film Artist.

College :

Our College was taking part in Inter College Badminton Championship, the match was held in MTB Arts College. Students were present in full strength to cheer our doubles team comprising of Mr. Wadhwani and me. The MTB College students requested the organisers to allow only five students from SVRCE in the hall. We put our foot down and insisted that all students be allowed as their own students had already occupied the above finally all our students were allowed and we won the match with score 15-0, 15-0 and went on to represent South Gujarat University.

The first students strike in Surat was organised during our second year. All SVRCE students marched from the college at Icchanath to Chowk shouting slogans and carrying banners.

Army Service :

At the IMA Dehradun the GC's short for gentlemen cadet are taught Military tactics, leadership, military history and physical fitness. We were taught all aspects of Jungle Warfare and Mountain Warfare and were taken to the thick Dehradun Jungles and the Mussoorie Ranges. All cadets have to pass PT, Swimming & BPET (Battle Physical Efficiency Test) which involves 2 mile gun & 10 mile gun fully loaded with backpack and rifle.

On completion of training at IMA the young officers are posted to their respective units. I spent two weeks at the Bombay Sappers Center and joined the YO's (Young Officers) Course at College of Military Engineering at Pune. Basically here we were taught Combat Engineering Skills viz, mine laying / clearing, equipment bridging. Operation of plant and machinery. In addition we were taught construction of field fortification and construction of Bunkers.

Service :

When I joined the regiment it was at Bridging Training Camp at Allahabad. First two years in the regiment I was the Offg Coy Commander incharge of 120 men and was responsible for their rations, pay, training, leave, records etc. in Oct

71 we moved to the Western Sector by Road as rumours of Pakistan Attacking India were very strong from Oct 71 to 03rd December, 71 we laid thousands of anti tank mines, built the Brigade HQ and constructed Equipment Bridges for easy movement of troops.

On 3rd December, 71 war broke out on the western front with Pakistan attacking our forward airfields. We were ordered to super impose anti personnel mines, where ever we have laid the anti tank mines. We crossed the IB on 08th December then the pressure by Pakistan on Chhamb Jaurian increased. My field company was with the leading Battalion. We cleared numbers of mine fields, constructed tracks for easy movement of troops and vehicles. We laid mines in front of our defendant areas after the cease fire was declared on 17th December, 71 in the western sector.

During service with the MES (military Engineering Services) I was responsible for planning, designing and construction of projects in various Military Stations.

As Assistant Garrison Engineer I was responsible for the maintenance of technical buildings and runway of a very strategic Air Force Station.

As CWE Nagpur I was looking after Military Stations at Nagpur, Pulgaon, Kamptee and Amla. In addition I was responsible for the construction of new projects at Ordnance Factories at Ambajhari, Bhandara and Chandrapur.

While with the Border Roads Organisation was responsible for planning, tendering, construction and maintenance of roads in Arunachal Pradesh.

My last posting was at Head Quarters Southern Command Pune and was in charge of the HR of the MES Organisation in the entire Southern Command.

How To Get what I want.....

Hitendra Nanavati

B. E.(Mech)-1984

Myself, Hitendra Nanavati is the proud SVRET's, from '84 batch of Mechanical Engr.

Our group companies have been currently engaged in the Automobile business in the South Gujarat.

So far I have had the privilege to deal with international brands like Toyota, Chevrolet, Renault, Hyundai, Ashok Leyland commercial vehicles, Escort tractors etc. since 1998 with wide sales and service networks for the same at various locations in South Gujarat.

Let me share my journey so far, with you all....

I was already into the family business of Tyres & lubricants (even during the college days) which was established by my late father Shri. Amrutbhai Nanavati in the year 1971. Yes, that was the reason why I could drive the luxurious Ambassdor and could fly on motorcycle like Falcon during my college days, which was rare and the Reason for envy from so many friends in those days.....

Further, it got accelerated from 1984, once I graduated from SVRCET. Meanwhile, diversified by running a textile unit at Ankleshwar GIDC between 1984 to 1990 which did not suit much for various reasons beyond our control. Hence, I continued and expanded in the family business only with the help of the family members till 1998. Yes, these years were extremely important in shaping my professional career which in turn provided me with enough exposures to see and experience the world of Retail Trades and finance. In reality, I would not hesitate to accept the fact that all these years of my experience made me a post graduate in the field of business.

Finally, the day came which inspired me to visit AUTO EXPO at Delhi in Jan 1998. In the zeal and passion of doing something of my own and creating

the benchmark that destiny pulled me towards a car which was exhibited there known as SANTRO from Hyundai. On seeing & knowing about the same, immediately it struck to me that yes, this is the one which is indeed going to become the competitor of Maruti in India. Further, I gathered some information at the location itself about the possible dealership at Surat which was almost refused over there by informing that the procedure for the same is almost over and it is on the verge of finalization in someone's favour . However, on my insistence probably they could see a spark within and the company officials present there agreed to go through my proposal before finalization. I was utterly delighted, rushed back to Surat, discussed things within the family and with their wholehearted support filed the application with the required docs. To my pleasant shock and surprise I got a fax communication from Hyundai team giving me an opportunity to represent myself for 15 minutes during their scheduled visit at Surat in next 3 days. THOSE 3 DAYS OF MY LIFE.... I COULD'NT EVEN SLEEP.....and prepared myself with the help of dear friends like Bankim Vashi & Haresh Gandhi (both the batchmets from SVRCET '84 batch) for how and what to present in the interview, the ideal answers for the probable questions, etc....as my dream was going to get realized soon.....

The countdown had already begun. Finally the day arrived and those 15 minutes of my life started within which from formal introduction it went up to the deep analysis of market potential and future prospects....it went on and on... In fact, it so happened that after a fruitful conversation of almost 3 Hrs. the company officials were totally convinced about the proposal made by us and consequently at the end of the meeting we were offered the dealership at Surat subject to various compliances.... Again the emotions, excitement started flowing and I had another couple of sleepless, anxious nights awaiting me.

Well, the challenge was at our end now, since I was told to finalize the land, build the infrastructure and start operating the dealership in just 7

months of time which was seemingly not possible.

But, as Many times we have heard the expression like....."What you see is what you get"....

Our elders have often said: " If you look at a tree long enough, it will begin to move."

And thus, "We see what we want to see."

Yes, the challenges were enormous, but well taken at our end....In the process had to pass thro' a extremely tough time by working round the clock with the support of family and friends. Even the severe monsoon during June/ July could not deviate my intention and finally we were all ready to commence our dealership operations at Piplod, Dumas rd, on 30 th Oct'98, the day of the national launch of SANTRO And I WAS IN TEARS ON THE DAY.....IT WAS LIKE A DREAM COME TRUE.....and this is how my journey began in the Automobile industry.....The focussed and dedicated approach in the subsequent years help us build the empire brick by brick...and the multiplication of the same has followed in the natural course.....

Psychologists tell us that nothing controls our live more than our self-image. We live like the person we see in the mirror. We are what we think we are. You can't be it if you can't see it.

Here, I would like to introduce you to one of my great methods of self motivation. When you have set a goal, you begin your long journey. All you need is to work as hard as you can. You are likely run into problems on the way, do not be afraid of them. Follow your plans and overcome the difficulties step by step.

We all know that Rome was not built in one day. It is the same as our success. We need to prepare well, develop action plans and put in a lot of hard work. Just be patient and remember that your success takes time and effort.

For athletes, the Olympic games are their highest level of competitions. They all want to take part in. It will take them four years of time to prepare for it.

They train hard every day and never stop. When we see the athletes win the gold medal, many of them cry. Because, they had paid great efforts that are too hard for us to understand. Finally their dreams come true. The Olympic games spirit should encourage every one of us.

When you are on the way to your goals, follow your action plans every day. When you finish the tasks of each day, you can provide yourself with affirmation such as: " I have done very well today and I feel so powerful, energetic and motivated. I am happy for what I have achieved today." Write the feelings down when you are monitoring the process of goal setting. You will feel a boost in motivation. You can do this every day and soon your motivation will rise. You will be confident enough to achieve the goals.

You can also visualize your success often. Every one of us has the power to visualize. Though your goals haven't become reality, you can imagine that you have already achieved the goals. Put yourself in the real situation of success. How satisfied and happy will you be? Evoke the feelings and emotions associated with the success you are imagining.

Remember the interesting game? You draw your life ten years later. This is the same method. You can also draw your every success too. If you don't draw well, just clip pictures out of magazines and create a collage/organisation/business empire. Put it at a place where you can see it often. This is a very good method to get you constantly motivated. Visualization for success doesn't have to take long. You can do it when you are relaxed and feel free.

You may find a mentor who has succeeded in this field to help you.(At this juncture I would also like to wholeheartedly thank my mentor Mr. Raj Reshamwala who put in best of his efforts to mould me, as required.) The Mentor will encourage you and give you the valuable guidance. This is good for self motivation, too. You will make much quicker progress.

So, Good bye.....and..... All the best.....

WebDev Labs

Hello everyone! Change is the only constant in this world. To quote Issac Asimov, "The only constant is change, continuing change, inevitable change, that is the dominant factor in society today" and staying true to the words, now, SVNIT Surat is about to witness a defining and epic change with the introduction of the Study Portal. To those who are not yet familiar with WebDev Labs, we are a small group under IMS with an aim to improve the technical level of institute multifold. It has been more than a year since the formation of WebDev Labs and the journey since then has been nothing short of incredible. In November 2012, we started our journey with tiny but steady steps. And since then, we have organized countless lectures and workshops which have constantly witnessed anywhere between 25 to 80 students each and every time, a clear sign of the zeal of learning in the students of SVNIT Surat.

Work Done : We have developed the following websites and portal for the institute : 1. Alumni Portal, 2. Sparsh, 3. MindBend, 4. NIT Conclave, 5. Hindi Cell, 6. IGNIS, 7. Drishti, 8. Bookmarklet, 9. Blood Online DB

Innovative projects in pipeline are : 1. Study Portal 2. Online Feedback Forms

WebDev Labs is roughly run as two cells (programming/design) that collaborate with each other on everything. Broadly, web development. More broadly, mobile and web development and design. In the process, however, the work fans out to different areas. The lab is never the pressure pan with little leeway for errors, nor does it stagnate and radiate leisure. On one day, everyone is coding away, while simultaneously enjoying "three days grace - i hate everything about you" on surround speakers and on another we are all playing "CSAW CTF", the premier Capture the Flag online contest. Another ordinary day ends in a few people pulling off an all-nighter with some issues filed up in ASANA(PMS), as the agenda.

WebDev Labs is not a company, and members aren't paid. It's an official technical club. It's passion that drives us, not obligation. That's why it's an amazing place to learn and get inspired. If you feel it's the right place for you too, drop us a mail at contact@webdevlabs.in to say Hello, and we'll make sure you aren't disappointed.

The Learning Experience : After joining, students are introduced to a lot of new stuff like Git, Node, Python, Backbone.js, Design Patterns, Javascript, MVC, AJAX, jQuery, Angular, CSS, Stylus, LESS, using Slack and Asana... so much more. The point is that it is a center for learning; you learn something new every time you work on a project. It provides a place to learn without any kind of restriction. One gets to learn how websites that you visit daily and how the applications you use on your mobile

actually work. Every last detail. Another great thing about the environment is the geek-speak that flows about. Just listening to all the conversations will tell you something new about an open source library, why the new application for android is really cool, why a new startup is bound to fail etc. This list is endless as well.

Recruitment : Recruitment is one of the most important events that we conduct year-round. We take the whole process very seriously and invest a lot of time and effort in it. Every problem in the recruitment test is a result of hours of brainstorming; every question asked in the interview aims to push the candidate to think from a different perspective, every selection made is absolutely critical and data-driven. We want an amazing environment of passionate and creative people and we don't shy away from going to any lengths (or sleepless nights) possible to achieve that.

We pride ourselves as being an open group. We often talk about the tools we use internally, the tech behind our applications, our involvement in open-source and go as far as to conduct open lectures and meetups on every topic we discuss internally. As an extension of this open culture, we want to clarify that contrary to common belief, we are always open to new members irrespective of year and branch. Even if you are an awesome designer in your second year or a kick-ass developer in your third year, we are always open to new additions to our group. We look for self-motivated doers who have initiated and finished projects on their own.

If everything you've read above excites you and you picture yourself being a part of WebDev Labs, come write our test in Mid-April. It's been a dream ride so far, join us in that journey as we continue to grow. All you need to succeed is willingness to learn and a mindful of creative ideas.

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Web Presence: <http://webdevlabs.in>

Shakti Goap

Int. M.Sc – IV (Applied Physics)

Founder: WebDev Labs, E-Cell & Alumni Cell – NIT Surat



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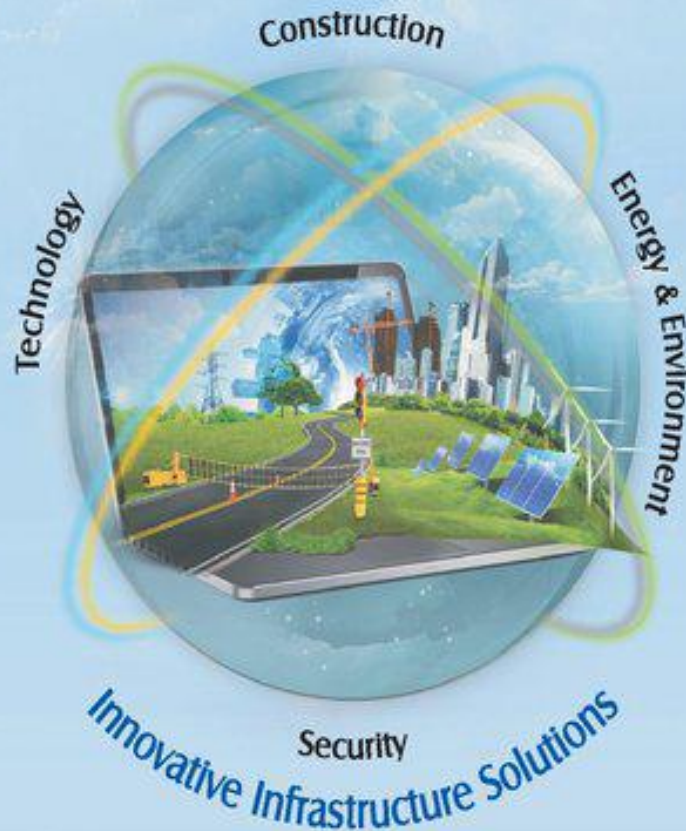
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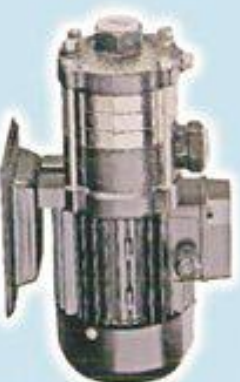
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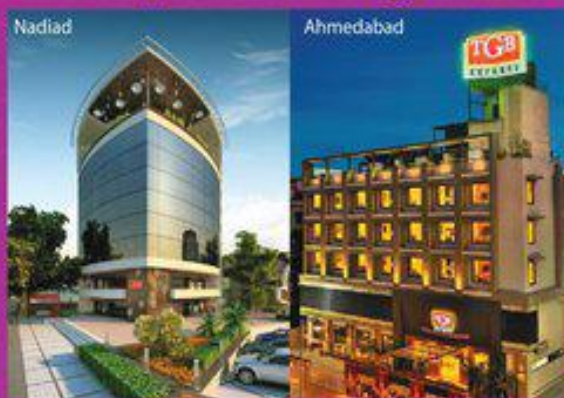
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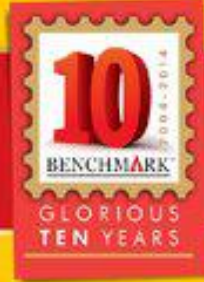
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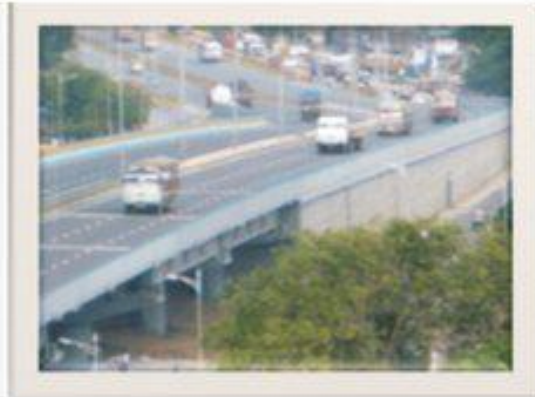
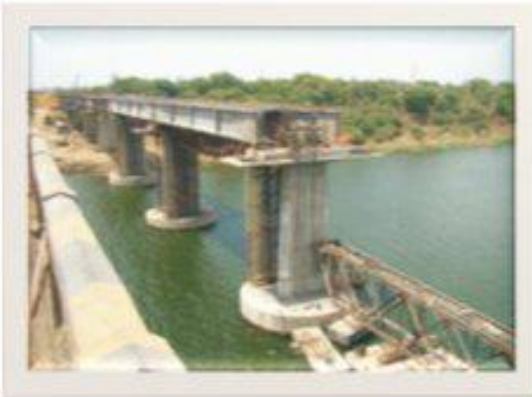
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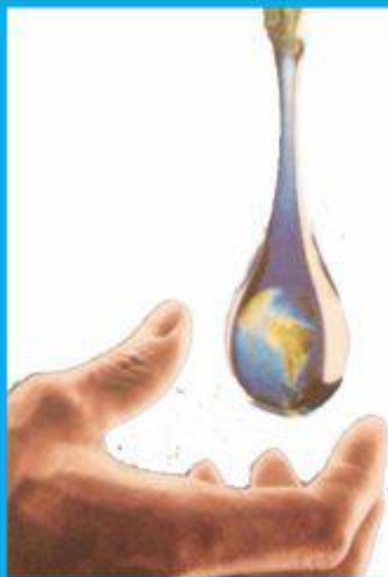


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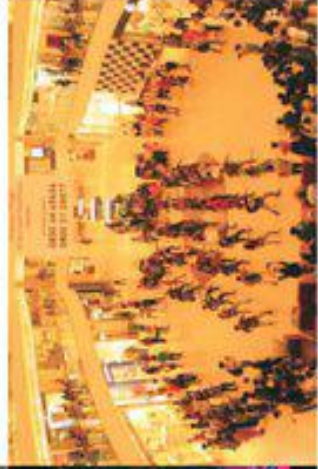
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Alumni**

SVNIT Alumni Reunion for 1994 Batch (26th and 27th December 2014)

The alumni of the 1994 batch met on the 26th and 27th of December 2014 at the SVNIT campus and relived the college moments by engaging themselves into lectures by the teachers, snacks at canteen, music party at canteen lawns, etc. It was really a trip down the nostalgic lane. Alumni not only from various states of India but also from different countries of the world came to the event.

The families , especially the children were really awed and enthralled to see the expanse of the infrastructure that the campus possessed. The following were the highlights of the two days:

Felicitation of the faculties



Dinner at the Guesthouse with Faculties



Informal meet at Guesthouse



Midnight tea at Chamunda Restaurant



Presentation of Personal Profile



Snacks at Canteen



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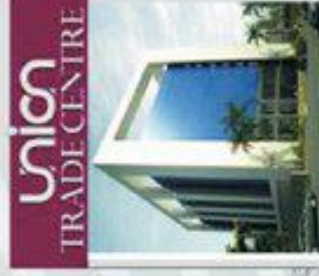


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