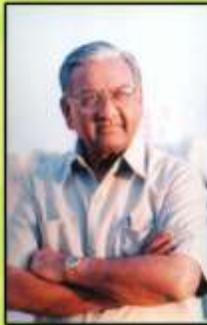




# VVP e-Bulletin

Department  
Name

Electronics &  
Communication



**Shree Pravinbhai R. Maniar**  
Chairman

●  
**Shree Lalitbhai Mehta**  
Managing Trustee

●  
**Shree Chandrakantbhai Pavagadhi**  
Trustee

●  
**Shree Kaushikbhai Shukla**  
Trustee

●  
**Dr. Sachinbhai Parikh**  
Principal

electrical

electronics & communication

information technology

computer engineering

chemical

Name HOD  
Dept.

**Dr. Bhavin Sedani**

Committee  
Member

**Prof. S.A.Banerjee**  
**A.R.Upadhyay**



## *From the desk of the Head of the Department*

*As I am given the headship of this department, I wish to stand up to all the expectations of management and the department.*

*The only way by which we can build our students knowledge is teaching. Through excellence in teaching we can claim excellence in all aspects like placement, results & admissions. This will also reflect the image of our institution. And can fulfill the dream of our management: Zero ATKT.*

*But this will require our combined efforts both staff & student to achieve best achievable results for the department.*

*It's my immense pleasure to inform you all that EC has got the permission for starting Master degree from next semester.*

*With a positive note,  
I wish to give my all possible efforts for the betterment of the department & hope all the students & staff to give their best to work collectively.*

### **This Year Is Done**

This year is done, the work behind, and now you go on out,  
Pursue careers you've learned the scope, of things that go about...

In daily life as all grown up  
And on your own you leave,

Home and school and college and parent's arms,  
Now by yourself - achieve.

And when you have your sights all set,  
Apply your new found mind...

Try to make your way and let,  
The wonders that you find...

Keep you on an even keel,  
On the ladder you must climb.

## *Editorial column*

*Greetings!!!!*

*In this issue, we will find out what current engineering students could do to put themselves on the fast track to career success.*

*First, find out some profiles of practicing engineers so you can find out what it might be like to pursue a career in engineering. Then emulate their good traits in your personal and professional life. Second, participate in every hands-on, experiential learning opportunity with your day to day schedule or else using summer camps to continue to learn: this is always viewed more seriously by a prospective employer. This way, you'll have something unique to show a prospective employer. Third, work in teams as much as you can. As team efforts can produce great results. Fourth, build a leadership quality to lead teams. Fifth, as with any skill, leadership needs constant improvement. Try to create a way to get feedback from team members and group leaders to improve your skills, including communication and leadership. Plus, you'll learn how to accept—and give—constructive criticism. That's absolutely necessary for your future career. Sixth, learn the value of networking. Start "globalizing" right at college. Seventh, as an engineer, it's not enough for you to be technically proficient; you need to be business savvy. Eight, break out of your shell.*

*Above all, try to explore yourselves and learn to enjoy in whatever you are doing. Dream big, Enjoy life and Work hard.*

*This issue is especially devoted to our final year EC students.*

*Let me tell you-- each and every student has left an indelible impression in my mind. And today, as you stand at the threshold of the institution, do not regret and look back at what you have not done, but look forward to what you can do in the future and take with you the fond moments you cherished here.*

*Explore your potentials to the extremes and come out in flying colors. Fare well in life. On behalf of all the staff members of VVP EC parivar and on my personal belief, I wish you all the best in life.*

*Kindly keep sending your feedback, suggestion to us.*

## *When it is time to say Good Bye...*

As our dear students of final year are about to start an all new phase of their lives; It is time to bid farewell to them. I wish them all the very best that life can ever bring.

Dear students, you were all special because each one of you has given us an opportunity to develop more and more for developing you! To clear your fundamentals and make you better engineer demanded not only the quality efforts from our side but also the devotion at its best; and I hope we have been able to contribute whatever was needed.

When you are now going to face the world, there are certain things, which I feel I should be sharing with you out of my experiences...

- Be kind to everyone, because everyone is fighting a tough battle, and you never know what the circumstances are that person is fighting with....
- Set your priorities and follow them religiously - that will help you concentrate only on what is really important in your life and then automatically you will not waste your mind- time- energy for something which is not worth.
- Never compare yourself to anyone else on the earth. You are unique and you are special too. With your qualities and characteristics what you are is the world requires. Have lots of faith in your potential. Love yourself. Make yourself happy every day. Believe in yourself. I do believe in every one of you.
- Work hard; never keep any of your responsibilities unattended. Remember whenever you are fulfilling them; you are giving back something to your parents and dear ones who have unconditionally and tremendously contributed in to your life and your being.

Wishing all the best to all of you!! May all your dreams be fulfilled! May God bless you with the choicest blessings!! Keep in touch; get back to your college as hugely successful individual.

*Prof. Sneha A. Pandya*  
*Sr. Lecturer*

“Persevere...because on the road to success there is never a crowd on the extra mile!”  
~ **Charity Gibson**

“God gives every bird his worm but He does not throw it into the nest”  
~ **Liam Carey**

## Staff Corner

### PAST, PRESENT AND FUTURE OF NANO TECHNOLOGY: A GENTLE INTRODUCTION TO THE NEXT BIG IDEA

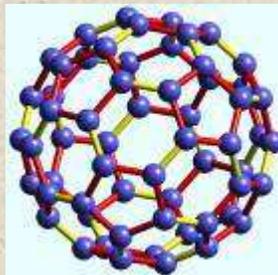
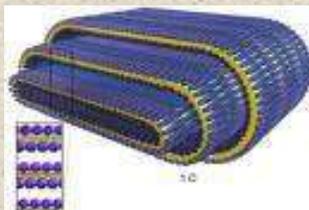
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*Prof. Nilesh Parmar*  
*Lecturer*

- FROM THE GREEK NANOS - MEANING "DWARF", THIS PREFIX IS USED IN THE METRIC SYSTEM TO MEAN  $10^{-9}$  OR 1/1,000,000,000.
- **NANOTECHNOLOGY** is the creation of functional materials, devices, and systems through control of matter on the nanometer (1 to 100 nm) length scale and the exploitation of novel properties and phenomena developed at that scale.
- A scientific and technical revolution has begun that is based upon the ability to systematically organize and manipulate matter on the nanometer length scale.

#### WHY SHOULD YOU KNOW SOMETHING ABOUT NANOTECHNOLOGY?

- ❖ The national science foundation estimates that by the year 2015 there will be a need for 2 million workers worldwide in the fields of nanoscience and nanotechnology.
- ❖ An additional 5 million workers will be needed in support areas for these fields.
- ❖ By 2015, nanotechnology is expected to be a \$3 trillion "industry"
- ❖ The science of manipulating atoms and molecules to make new materials and devices.
- ❖ Interdisciplinary - where science and engineering interconnect
- ❖ Occurs at the 1-100 nanometer range
- ❖ One nanometer is  $10^{-9}$  meters or about 3 atoms long. For comparison, a human hair is about 60-80,000 nanometers wide



#### TWO PARTS OF NANOTECHNOLOGY

- **NANOSCIENCE** - where researchers learn about the chemical and physical properties of materials at the 1- 100 nanometer (nm) scale. Materials at 1-100 nm are called nanostructures. They are the smallest things that can be made.
- **NANOTECHNOLOGY** - where researchers develop and apply materials at this scale to develop new products or methods; i.e., turning nanostructures into useable tools and applications

## GOLD NANOPARTICLES IN GLASS ARE REFLECTED AS RED



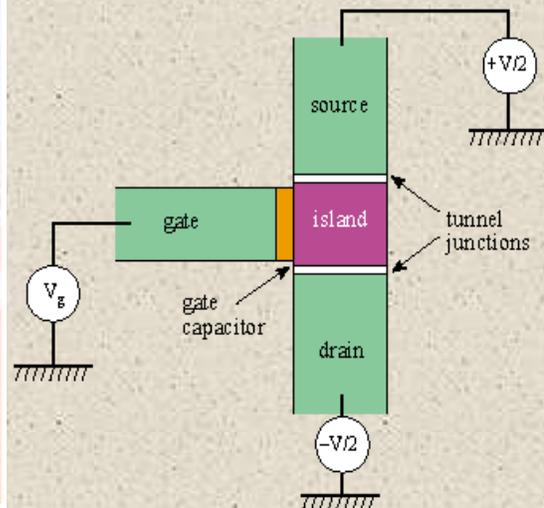
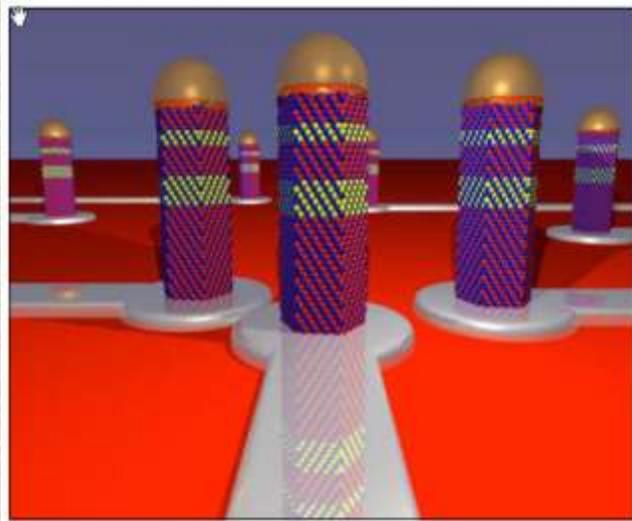
Ancient stained-glass makers knew if they put finely ground gold or silver in the glass they would get beautiful colors. They used nanosized gold and silver particles. Optical properties change with the nanoscale.



## NANOELECTRONICS

Over the years, semiconductor technologists have pushed transistors to smaller and smaller feature sizes. This steady shrinking of device size has resulted in an information revolution that today impacts on virtually every facet of our lives. Even though transistors are close to reaching their ultimate size limitation relative to integrated circuit performance, the stunning achievements in fabrication tool development in the last several decades as part of the microelectronics revolution now allow for molecular-level structural tailoring of materials not heretofore available or explorable except through naturally occurring atomic processes. Indeed, the age of nanoscience has arrived.

## CONCEPTUALIZATION OF VERTICAL NANOWIRE CIRCUITS



### SINGLE-ELECTRON TRANSISTORS (SETS)

- The single-electron tunneling transistor - a device that exploits the quantum effect of tunneling to control and measure the movement of single electrons was developed.
- Experiments have shown that charge does not flow continuously in these devices but in a quantized way.
- Set consists of a gate electrode that electrostatically influences electrons traveling between the source and drain electrodes.
- The electrons in the set need to cross two tunnel junctions that form an isolated conducting electrode called the island.
- For an electron to hop onto the island, its energy must equal the coulomb energy,  $e^2/2c$ .
- When both the gate and bias voltages are zero, electrons do not have enough energy to enter the island and current does not flow.
- As the bias voltage between the source and drain is increased, an electron can pass through the island when the energy in the system reaches the coulomb energy.
- This effect is known as the coulomb blockade, and the critical voltage needed to transfer an electron onto the island, equal to  $e/2c$ , is called the coulomb gap voltage.

Nanoscience is the study of material manipulation and its intended physical consequences at the molecular scale, that is, on a scale of the order of a few hundred angstroms-less than one-thousandth of a human hair. The extraordinary feature of nanoscience is that it allows for the tailoring and combining of the physical, biological, and engineering properties of matter at a common level of manipulation and control; this feature provides an enormous opportunity to fabricate, tailor, and embed novel, specifically targeted chemical, biological, physical, and material attributes at the lowest level of material building block. The challenge of nanotechnology is to scale up or suitably package nano-based material

concepts to a robust, usable macroscopic level while preserving the desired embedded nano features.

The early techniques of molecular and cluster beam epitaxy, and more recently, the chemistry of self-assembly and molecular design, have facilitated the fabrication of structures with atomic layer resolution; as well, advanced lithographic and replication methods have provided the capability for defining lateral dimensions with an accuracy of angstroms. Over the evolving years of progressive microelectronics, these revolutionary nanofabrication techniques have ushered microelectronics into the nanoelectronic regime by providing quantum wells, wires, and dots to serve as the basic workhouse structures for the study of many novel quantum phenomena and device concepts. Today, with new and emerging chemical processes, nanoscience has the potential to provide a unique spectrum of new concepts and capabilities for future generations of electronics as well as other areas including nanoelectromechanical structures, designer functional materials and textile fabrics, medical sensors and probes, and the like. This potential will be realized through a systems-level approach which concurrently integrates nano-embedded properties with new paradigms for device physics, flexible architectures, and hierarchical design principles.

In this article, an overview and my personal perspective of the evolution of nanoelectronics over the last quarter of a century is presented. The perspective includes a discussion of the need to transition from the classical to the quantum picture of nature, a view of life in the nano lane, a discussion of quantum engineering - the application of quantum principles to nano objects - including some of the author's own interests, an observation concerning a materials explosion toward new applications of nanoscience and technology, and a discussion of future directions relevant to nanoscience and engineering.



The Nano Technology research was first started by NASA , then it is followed by IIT Bombay, and now our college is also participating to encourage the research in this field by starting the BE degree in Nano Technology

## *Student Corner*

### **Ignite your minds.....**

Hello Friends....

Ever had a thought, why resistors though have same band of color on their outside they are available in different size??

Ever noticed such things?? IF not then Paddle your mind my friends .....

Have you ever thought how all things around you are based on?? Run on... Being an Engineer is not just to get degree .....No doubt right now you have more than 35000 students competing to be an engineer...but there are few who think why they are in this field...not just merely to get degree. Everyone says you might be hearing that EC is facing recession but I would call those people ignorant. Just imagine the world without Communication and the electronics product you see around in colleges, hospitals, Industries and homes.

World does not exist without EC engineers. Jobs will follow you if you have the capability, just be focused on your career from beginning just don't wait and watch that in 8<sup>th</sup> semester we will have lots of time to do it and be eligible for job...If Campus comes to our college ask your self are you prepared to face it??? are you ready????

This question should come to your mind.....

Please just observe the things around you and ask just one question to your mind..."How"? From this single word the world of Innovation begins.

Just strive to find answers for it...just don't study to simply pass, do that it's compulsory to pass but plus put your effort to know what you study in your books just add one more habit to your life.

i.e. "EXPLORE THE THINGS YOU SEE, STUDY OR LISTEN ABOUT"

It's the age to love just see your love in resistors, diodes, microcontrollers (just few hours per day) and see the magic after 4 years.

All the best to you, it was an effort to ignite your minds.

*Visha Kartik*  
*8<sup>th</sup> -E*

## Rise of Engineers : Turning “Mass” in to “Class”

*(Jani Jigar, Devani Ankur, Doshi Shruti, Manjodi Nija-8<sup>th</sup> Sem)*

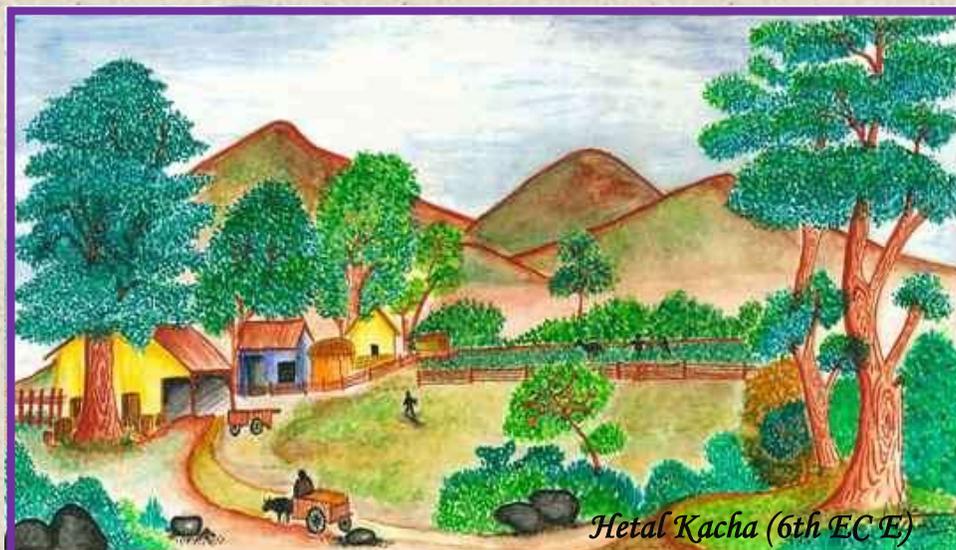
Everyone is gifted with some unique talent. After coming into engineering many students may have gathered extra knowledge in particular field for which they may have invested their precious time.

If these talents can gather by any means, all the knowledge of all students can be accommodated and a “Big Knowledge Source” can be formed.

We the students of 8<sup>th</sup> semester 2009-13 batch have taken a little step to form this group and named it “GENETRIX” which means “Matrix of Genius”, and we are running it successfully.

### Highlights of Sessions:

1. Android intro
  2. Android basic programming
  3. Wired /Wireless Robotic development.
  4. C - C++ imps
  5. AVR programming
  6. Ethical Hacking
  7. Accelerometer programming
  8. Audio synthesizer
  9. Artificial Voice - Vocaloid
  10. GPS
- and many more



## High Fliers

A big congratulation!!!

### GATE – 2013 Qualified

	Name	Marks
1	Rabariya Vipul	44
2	Mehta Urvi	42.33
3	Kamdar Komal	30.33
4	Kotadia Miral	30
5	Bharvadiya Deep	26.67
6	Rughani Megha	26
7	Bavishi Pooja	25

### Results :

Congratulation on your success!!!

3rd Semester Toppers			5th Semester Toppers		
Rank	Name	SPI	Rank	Name of the student	SPI
1	Bharmal tasnim h	9.70	1	Kacha Hetal Devsukhlal	9.13
2	Shah pooja pankaj	9.13	2	Gondalia Hiren Kamleshbhai	9.07
3	Gondaliya chintan d.	8.97	3	Vekariya Nilisha Babulal	8.97
4	Sanghvi kevalkumar c.	8.83	4	Dave Ankurkumar B.	8.87
5	Lathigara harin p	8.77	5	Katbamna Gayatri B.	8.80
5	Gandhi ritesh rajeshbhai	8.77	6	Usadadiya Nupur Bipinbhai	8.73
6	Prithvi Nilesh Vasavada	8.70	7	Gandhi Deep Pradipkumar	8.60
7	Gandecha bhavik h	8.63	8	Tanna Ravi Arvindkumar	8.53
8	Chavda ankita pravinbhai	8.57	9	Thakrar Siddharth P.	8.50
8	Hemaxi ghonia	8.57	10	Tolia Shreya Atul	8.37
9	Usadadiya upasana h	8.53			
10	Sorathiya mansi ramesh	8.47			

## 7<sup>th</sup> Semester Toppers

<i>Sr.No.</i>	<i>Rank in GTU</i>	<i>Name of the students</i>	<i>SPI</i>
1	5	<i>Shah Sweetu Yatin Kumar</i>	9.62
2	6	<i>Patel Neeraj Mahesh Kumar</i>	9.62
3	13	<i>Mehta Urvi Kamleshbhai</i>	9.47
4	14	<i>Kotadia Miral Ashokbhai</i>	9.47
5	18	<i>Kesaria Hemali Pramodbhai</i>	9.44
6	19	<i>Jain Neha Dharmendra Kumar</i>	9.44
7	20	<i>Rughani Megha Ganesh Kumar</i>	9.44
8	23	<i>Nathavani Nikunj Kumar Kiritbhai</i>	9.44
9	26	<i>Bavishi Pooja Shaileshbhai</i>	9.44
10	28	<i>Mankodi Nija Jayesh</i>	9.41
11	38	<i>Doshi Shruti Girishbhai</i>	9.29
12	42	<i>Joshi Mohit Janakbhai</i>	9.29
13	59	<i>Soparia Nidhi Jayeshbhai</i>	9.26
14	63	<i>Lalani Kalagi Himanshubhai</i>	9.24
15	70	<i>Vaghasiya Adhyasha Kishor</i>	9.21
16	75	<i>Raiyani Jatin Babulal</i>	9.18
17	87	<i>Vhora Hussain Kutbuddin</i>	9.15
18	90	<i>Vaniya Asim Anandbhai</i>	9.15
19	91	<i>Shah Ridhi</i>	9.15



## *From the Training & Placement*

Students of final year got selected in the core companies of EC.

*Congratulations to all of them!!!*

<i>Student Name</i>	<i>Company Name</i>
<i>Devani Ankur Chovatiya Ravi Mankodi Nija Thakker Ankit</i>	<i>e- infochip , Ahmedabad</i>
<i>Niraj Patel</i>	<i>Searce , Rajkot</i>
<i>Shah Ridhdhi</i>	<i>ISRO, Ahmedabad</i>
<i>Shah Sweetu Jain Neha</i>	<i>MCBS, Gandhinagar</i>
<i>Hirani Mohit Bhetariya Divyesh Chavda Jaydeep</i>	<i>Fairdeal Power Control Ahmedabad</i>
<i>Nishank Oza</i>	<i>ETech, Ahmedabad</i>
<i>Nidhi Sopariya</i>	<i>Parmeswar Pvt. Ltd.</i>
<i>Soriya Satish</i>	<i>Sahajanand Laser, Gandhinagar</i>
<i>Mayur Parmar</i>	<i>Telesiya Networks Pvt. Ltd.</i>
<i>Bhadja Sandeep</i>	<i>Legend Ceramic Pvt. Ltd.</i>
<i>Parth Detroja</i>	<i>Universal Hunt Pvt. Ltd., Ahmedabad</i>



## *Sports Corner*

*Congratulations Winner!!!  
EC Department Volleyball Team*



*Vora Jay G, Monpara Dhaval B, Ladani Bhargav S,  
Patel Bhavyesh V., Doshi Rushit B. , Vivek Viradia, Mohit Ghodasara*



*Vyas Deep (8<sup>th</sup> EC)*

## Students Achivement

**Achievement: "Rekriti" (Project Presentation) 1<sup>st</sup> Rank At Da-lic**



Rathod Naimish R.



Soparia Nidhi J.



**Title: Robotic Arm For Leg And Head Pain Relief**

In Today's Life Leg Pain And Head Pain Are Very Common In Every House. If There Is A Device That Can Help Us With This Problem Then It Will Be Great. Our Model Help People To Get Relief From Leg And Head Pain.

**Achievement: Registered a Patent**

**Patent No. 2372/MUM/2012**

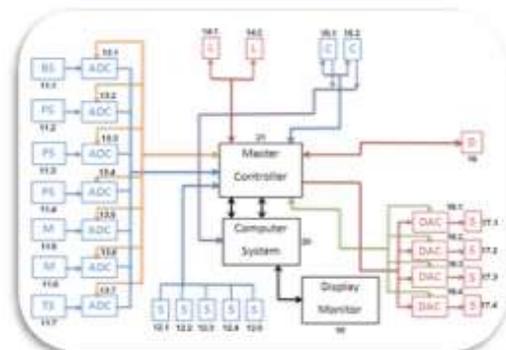


**Name : Arjun J. Khetia**

**Semester : 8<sup>th</sup> E.C. (E)**

**Roll No. : 09EC009**

**Patent registered Name "AYUYANTRA"**



## National instruments VI-MANTRA competition

One team of our college got 26<sup>th</sup> rank from more than 1200 participants from all over INDIA.

Title:-Detecting the void age precisely in the production of plastic material.



The team members of the selected team may get the chance for internship at NATIONAL INSTRUMENTS.

Total 6 teams have participated from our Department.

### *Sr.No. Team Members*

- 1 Ankur Devani, Bhagat Isha, Mandavia Mohit
- 2 Nija Mankodi, Urvi Mehta, Shruti Doshi
- 3 Ridhdhi Jadeja, Jinal Purohit
- 4 Mohit Hirani , Kisan Mehta
- 5 Ruchi Doshi, Heli Desai, Zarna Dave
- 6 Naimish Rathod, Nidhi Soparia, Deven Patanvaria

## Texas Instruments India Analog Design Contest - 2013

Sr. No.	Team Members	Qualified in Contest
1	Ankit Thakker, Ruchi Doshi	3 <sup>rd</sup> Round
2	Ankur Devani, Mohit Mandavia Bhargav Sankhalpara, Neev Ghodasara	2 <sup>nd</sup> Round
3	Jigar Jani, Arjun Khetia	1 <sup>st</sup> Round



### ***Bhagawan Mahavir's message for life***

***Non-Violence (Ahimsa)*** : Not to cause harm to any living beings

***Truthfulness (Satya)*** : To speak only the harmless truth

***Non-stealing (Achaurya)*** : Not to take anything that is not properly given

***Celibacy (Brahmacharya)*** : Not to indulge in sexual pleasures

***Non-possession/Non-attachment (Aparigraha)*** : Complete detachment from people, places, and material things



## *There's No Good-Bye.....*

There's No Good-Bye.  
Like taking away pearls from the skies,  
To make it rain again,  
Sometimes, some hands are meant to be waving,  
And life's no where for a while;

But my boy, be assured-  
There's no Good-Bye.

On the grounds when the Autumn leaves fly,  
You're assured the new pink babies are alive;  
Still on the sand when your castle shines,  
You know you got the place, cause others' were washed with knives.

So, there's no need to cry,  
There's no Good-Bye.

Nights call and the day knows she doesn't need to stay,  
She goes but she comes away;  
You gotta go now, work time again, leave your dog in his den,  
Still you kiss him, there's no need to say,

Cause he knows at the end, you'll make his food fry;  
So, there's no Good-Bye.

Fat appetite in winter, Grasshoppers in June,  
Old song 'fear' does go, but comes with a new tune;  
Cries, mourning, grief and pain,  
They don't last much, but they come again soon.

You can still catch your smile back if you try,  
Cause there's no Good-Bye.

*Vidhi Kothari*  
*10EC030*  
*6th EC-E*

## Co-Curricular Achievements

Sr. No.	Name of Student	Sem	Organized by	Type of Event	Rank
1	Ankit Joshi	6 <sup>th</sup> E	Nirma University	Idea Spark	2 <sup>nd</sup>
2	Vivek Viradia	6 <sup>th</sup> E	Nirma University	Idea Spark	2 <sup>nd</sup>
3	Karathiya Vishal	4 <sup>th</sup> F	GEC, Rajkot ADIT	Dath race Ma – 3 – x	3 <sup>rd</sup> 2 <sup>nd</sup>
4	Bhayani Aakash	4 <sup>th</sup> F	GEC, Rajkot	Dath race	3 <sup>rd</sup>
5	Jogi Chirag	4 <sup>th</sup> F	GEC, Rajkot	Dath race	3 <sup>rd</sup>
6	Hansora Hiran	4 <sup>th</sup> F	GEC, Rajkot	Dath race	3 <sup>rd</sup>
7	Soparia Nidhi	8 <sup>th</sup> E	DA-IICT, Gandhingr	Synaps (project)	1 <sup>st</sup>
8	Rathod Naimish	8 <sup>th</sup> F	DA-IICT, Gandhingr	Synaps (project)	1 <sup>st</sup>
9	Solanki Monika	8 <sup>th</sup> F	ADIT, VV nagar	E – hunt	2 <sup>nd</sup>
10	Vora Gulshan	8 <sup>th</sup> E	Gardi clg, Rajkot	Project Presentation	2 <sup>nd</sup>
11	Arjun Khetia	8 <sup>th</sup> E	Gardi clg, Rajkot	Project Presentation	2 <sup>nd</sup>
12	Sojitra Meghana J.	4 <sup>th</sup> E	V.V.P. Engg. College	Poster Presentation	1 <sup>st</sup>
13	Ankola Brinda s.	4 <sup>th</sup> E	V.V.P. Engg. College	Poster Presentation	1 <sup>st</sup>
14	Karan K. Mankad	4 <sup>th</sup> E	V.V.P. Engg. College	Roborace	1 <sup>st</sup>
15	Katbamna Gayatri	6 <sup>th</sup> E	V.V.P. Engg. College	Paper Presentation	2 <sup>nd</sup>
16	Nilamba Bhalgariya	6 <sup>th</sup> E	V.V.P. Engg. College	Paper Presentation	2 <sup>nd</sup>
17	Mohit Vora	6 <sup>th</sup> E	V.V.P. Engg. College	Paper Presentation	2 <sup>nd</sup>
18	Doshi Tapan	6 <sup>th</sup> E	V.V.P. Engg. College	Robo soccer	2 <sup>nd</sup>
19	Dadhaniya Niket	6 <sup>th</sup> E	V.V.P. Engg. College	Tug of War Project presentation	2 <sup>nd</sup> 1 <sup>st</sup>
20	Hitesh joshi	6 <sup>th</sup> E	V.V.P. Engg. College	Tug of War Project	2 <sup>nd</sup> 1 <sup>st</sup>
21	Sanket Gadhia	6 <sup>th</sup> E	V.V.P. Engg. College	Tug of War Project	2 <sup>nd</sup> 1 <sup>st</sup>
22	Raval Jay	6 <sup>th</sup> F	V.V.P. Engg. College	Tug of War Project	2 <sup>nd</sup> 1 <sup>st</sup>
23	Ladani Bhargav	8 <sup>th</sup> E	V.V.P. Engg. College	Lan game	2 <sup>nd</sup>

## *Department Activity:*

### *Industrial Visit*

6<sup>th</sup> sem visited Doordarshan, Rajkot on 29<sup>th</sup> March and 9<sup>th</sup> April, 2013.

## *College Activities*

### ✚ Technofest – 2013

V.V.P. Engineering College has organized Technofest – 2013 at national level on 16<sup>th</sup> March, 2013. Nearly 2900 participants from different colleges in Gujarat and out of Gujarat has participated. Various technical events Paper, Poster and Project presentation competition were organized. Major highlights of the event was Robo Race ,Robowar & Robo Soccer. Visitors from outside enjoyed the technofilm fiesta.





Swami vivekanand 150<sup>th</sup> Janma jayanti celebrations, Lecture by Shri Prabhusevanandji, Ramkrishna Ashram , Rajkot on 12<sup>th</sup> Jan, 2013.



Swami vivekanand 150<sup>th</sup> Janma jayanti celebrations, Lecture by Nikileshwaranandji, Ramkrishna Ashram, Baroda on 26<sup>th</sup> February, 2013.



Swami vivekanand 150<sup>th</sup> Janma jayanti celebrations, Sangeet Sandhya on Swami Vivekanand Jivan & Kavan on 9<sup>th</sup> March, 2013.



Swami vivekanand 150<sup>th</sup> Janma jayanti celebrations, Lecture by Shri Jay Vasavada in Shri Zaverchand Meghani Kalabhavan on 5<sup>th</sup> April, 2013.



## शहिद दिन रक्तदान डेम्प वी.वी.पी.



Blood Donation Camp on 23<sup>rd</sup> March 2013 in V.V.P. Engg. College



Makar Sankranti Diwas celebrated by giving donation to Ranchoddasji Aashram on 3<sup>rd</sup> February 2013

“The simplest acts of kindness are by far more powerful than a thousand heads bowing in prayer.”

~ Mahatma Gandhi

“You give but little when you give of your possessions. It is when you give of yourself that you truly give.”

~ Kahlil Gibran



*Sunita Williams*  
(September 19, 1965)

**Sunita Williams** is an Indian American astronaut and a United States Navy officer who holds the record for longest space flight by a woman. Sunita Williams, who will be handed honorary doctorate degree by the Gujarat Technological University at Chandkheda on April 6, 2013.

GTU vice-chancellor Akshai Aggarwal presented the doctoral degree to Williams in a function where students from various engineering colleges, affiliated to the university, interacted with her. When asked about her definition of success, Williams said “Success is doing things you like, studying what you want to study and finding things that make you happy. There is no specific formula for it. Work hard for what you want to achieve”.

“Science gives the opportunity to explore, experiment and opens many unknown avenues. Also, I think, it is inherent in humans to explore, to learn more as sitting still makes them agitated.”

“I think there is actually a lot that goes hand in hand between science and spirituality.”

“When I saw the aurora from space, I understood that there is something bigger and stronger than us in the universe.”

#### **HONORS AND AWARDS**

- Navy Commendation Medal, twice
- Navy and Marine Corps Achievement Medal
- Humanitarian Service Medal
- Medal "For Merit in Space Exploration" (Russia, 2011) - for outstanding contribution to the development of international cooperation in manned space flight
- Padma Bhushan<sup>[34]</sup>
- Honorary Doctorate by Gujarat Technological University<sup>[35]</sup>