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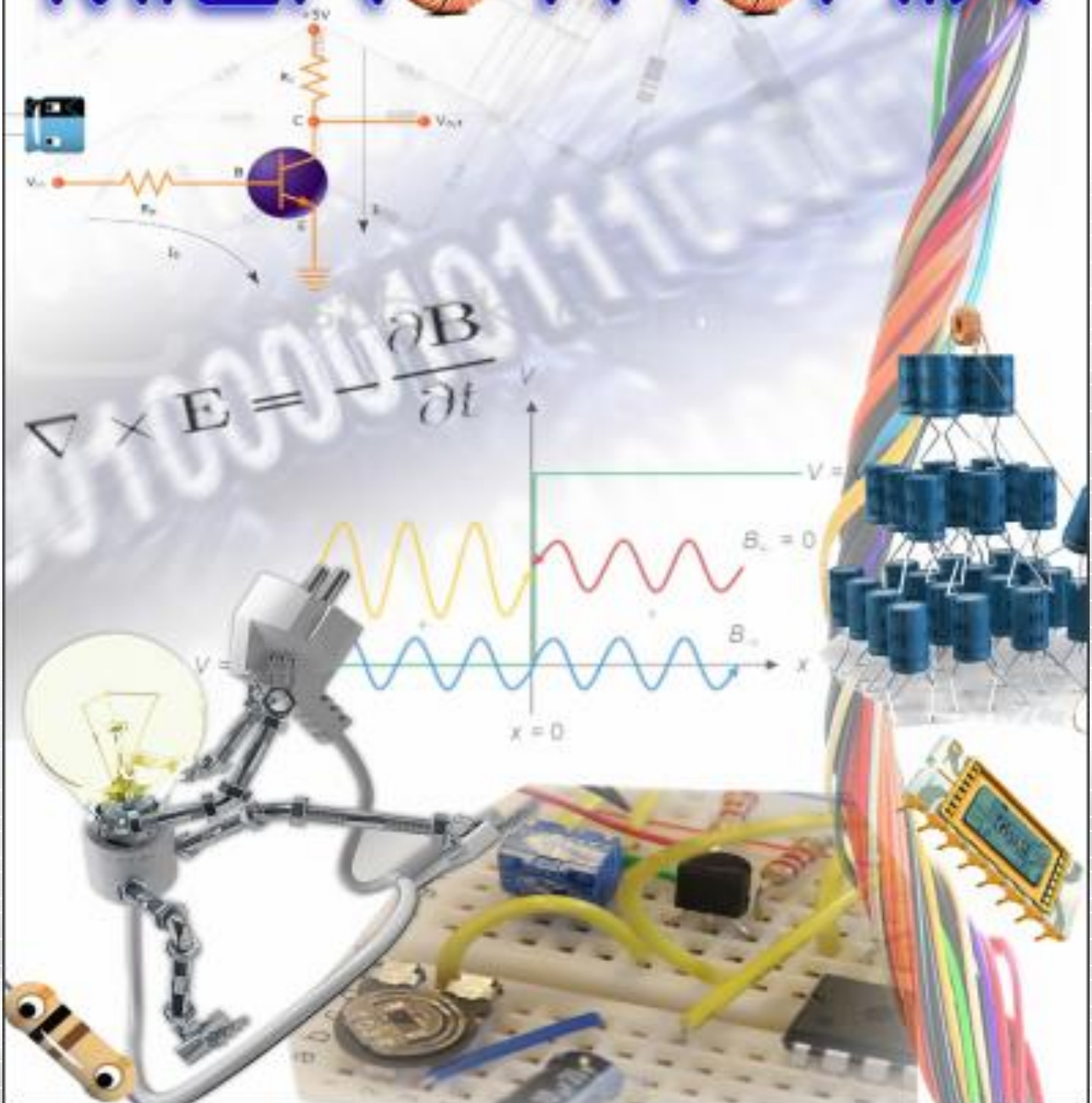
SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE

Affiliated to University of Mumbai, Approved by A.I.C.T.E. & D.T.E., M.S.
Grade 'A' awarded by D.T.E., M.S.

NEWS LETTER FROM DEPARTMENT OF ELECTRONICS ENGINEERING

VOLUME-4, No.1
APRIL, 2015

MICROTRONIX



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1. EDITORIAL



P.V.S.S.A.PARIMALA
Assistant Professor
SAKEC

Dear colleagues and beloved students,

Once more it is immense pleasure in presenting the 5th edition, volume 4, No 1, April 2016 of the college newsletter. As we all know, a newsletter mirrors a college-its vision and mission. It also highlights events, activities and academic prowess and achievements. In this edition, I have tried to capture the last six months excitement and activities

I express my hearty congratulation to our Prof. Ms.Vidya Gogate and our ME student Ms. Shanti Laguduva for the achievement of National award.

I hope that you will take advantage of this Newsletter as a platform to share more of your achievements and discoveries with the broader community. In doing so, we may better foster a culture of collaboration among the diverse group of scholars.

I sincerely hope that this edition makes for an interesting read.

2. STAFF EDITORIAL BOARD

| | | | |
|---|---|--|---|
|  |  |  |  |
| Prof. Vidya Sanjay Gogate | Prof. Aparajita Bera | Prof. P.V.S.S.A. Parimala | Prof. V Padmavathi |

STUDENT EDITORIAL BOARD

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|---|---|--|---|
|  |  |  |  |
| ADITI DUMBRE TE1 | YOGITA MAHAJAN TE1 | MADHWARAJ JOSHI TE-1 | JUI KORATKAR TE1 |
|  |  |  |  |
| SAYALI AMRUTKAR TE1 | PRAGNESH JADHAV TE1 | POORVI GIRISH SE-1 | ANIRUDDH MENON BE-7 |

3. STAFF MEMBERS

3.1 STAFF MEMBERS OF ELECTRONICS ENGINEERING DEPARTMENT

| | | | | |
|---|---|---|--|---|
|  Dr. Uma Rama Rao |  Prof. Shikha Shrivastava |  Prof. Subha Subramaniam |  Prof. Prashant G. Khedkar |  Prof. Babychen K Mathew |
|  Prof. Vidya Sanjay Gogate |  Prof. Nandkishor Sopan Narkhede |  Prof. Minal M. Puranik |  Prof. Asha Vijay Durafe |  Prof. Rameshwari. S. Mane |
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| |  Prof. V Padmavathi |  Prof. Shilpa Gaikwad |  Prof. Pooja Saxena | |

3.2 STAFF MEMBERS OF ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

| | | | |
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|  Prof. Vinutha Prasad |  Prof. Mamta Tikaria |  Prof. Rohan Borgalli |  Prof. Gauri Rakesh Chavan |
|  Prof. Madhura Amey Pednekar |  Prof. Ashish Tank |  Prof. Sunil Biradar |  Prof. Sujitha Kurup |
|  Prof. Kanchan Jain |  Prof. Sneha Jambhulkar |  Prof. Pooja Duddalwar |  Prof. Priyanka Singh |

4. SAMPARKA (ALUMNI ARTICLE)



Rajendra Shetty
 Year of Graduation: 2014
 Current position: MES Consultant, L&T
 Infotech, Airoli

SAMPARKA 2016

A nostalgic home coming

In one's engineering life the 4 crucial years are spent in the second home our "Engineering College". I know most of my batch and the current batch reading this will never agree to the above mentioned adjective used for the college. But knowingly or unknowingly we have spent most of our time at this venue. Yes, there were times where the watchman Pandeyji would throw all his might trying to kick out bunch of students completing journals during submission days in the cafeteria even after college hours. Adamant guys would do nothing but lend a deaf ear to his tantrums.

Yes, I am talking about my ALMA Matter Shah & Anchor Kutchhi Engineering College. And as a nascent alumnus of this college it was indeed, as the subtitle suggests, a homecoming for me at the Annual Alumni Meet "Samparka-2016" held on 20th of February, 2016. The brand new Auditorium warmly welcomed all the past batches recalling old sweet and sour memories. The NBA accredited, 'A' grade college makes us proud alumni and keeps pace with the growth towards the vision and mission of the college.

The Dean Alumni welcomed all of us and made us understand the importance of being an alumnus of a college and how our

words of appreciation or suggestion result in dramatic change in the development of the college. The In-charge Principal, Dr.Vinit Kotak as always with all his intentions clear, guided the alumni community towards the need of a strong connection between themselves to bring about a change for the development of our college.

All arrangements done by the current student council resulted into a great flawless show. The other arrangements made by the Alumni Committee made it an enjoyable day for everyone of us. We met our professors who treated us as students few years back; now look upon to us with their hearts full of pride and affection.

I went back home with a huge bag of contacts from various industries of senior & junior batches and a determination to execute my part as an alumnus for the betterment of my college, my Alma matter.

5. INDUSTRIAL VISIT 2016

RANTHAMBHORE- AGRA - NEW DELHI-UDAIPUR

The Industrial Visit (IV) of Shah And Anchor Kutchhi Engineering College for the year 2016 was organized in North India in places like Ranthambhore, Agra, New Delhi and Udaipur .The IV was arranged by IEEE SAKEC along with the active participation of Staff members of the college. The students were divided in two batches –one commenced on 9th Jan 2016 while the other was on 11th Jan 2016.In this Industrial visit, students have visited the Ranthambore National Park at Sawai Madhopur, Keoladeo National Park at Bharatpur, the Agra Fort & the TajMahal at Agra, RashtrapatiBhavan, India Gate, RajGhat, Akshardham, QutubMinar, IGMM, NMML at Delhi, City Palace & FatehSagar Lake at Udaipur, Chittorgarh Fort, Eklingji Temple and industries like Birla Cements, Marble Industry and Lipi Data Systems Ltd.



The name of Marble Industry was Mateshwari Tiles Private Limited. The guide Mr. Kamal Maheshwari explained about the types of marbles, raw materials, distinguishing methods, processing patterns & methods. At Lipi Data Systems, the guide explained about the company, products and its history. Lipi Data Systems was founded in 1986. Lipi Data Systems today stands firm on its co-strengths of a focused company driven by customer satisfaction. A complete printing and automation solutions company, Lipi has advanced its technological products to the complete range of products like ATMs and services covering almost every critical printing and automation applications. Incorporated in 1986, Lipi is among the top 3 Indian IT peripheral companies of the country. For over 25 years, Lipi has been committed towards providing the best of technologies and services through indigenously designed products. Lipi has been the market leader in the Line Matrix & High-Speed Dot Matrix Printer categories.



After the wonderful days spent exploring new places and enjoying with the old and new friends the students returned back to Mumbai with lots of beautiful memories.

6. WORKSHOPS AND SEMINARS

This semester too witnessed various Saturday events from the different student chapters. The intention of these events is to enhance the knowledge and skills of the students.

IEEE

An event on MATLAB PROGRAMMING was organized in collaboration with the Department of Electronics Engineering on 13th February 2016. The event which got positive response from the students was taken by our very own Prof. Salabha Jacob.

ISTE

A wonderful event on TRANSIENT ANALYSIS taken by our beloved Prof. Shikha Shrivastava was organized on 5th March 2016. The event helped students in understanding the difficult concepts of the topic easily with the various examples taken during the event.

6.1 FACULTY DEVELOPMENT PROGRAM

Department of Electronics Engineering has organized a Faculty Development Program on Using Excel for NBA Documentation,

- 30th January, 2016 conducted by Mr. Shridhar Sahu, Assistant Professor, SAKEC. The main objective of this FDP was to make all the faculties familiar with basic and advanced excel operations used in NBA documentation.



- Department of Electronics Engineering has organized a Faculty Development Program on **Cloud Computing**, 6th February 2016. It was conducted by Mrs. Jalpa Mehta, Assistant professor, Information Technology Department, SAKEC.



6.2 ALUMNI TALK

Department of Electronics Engineering has organized “Alumni Talk” on **Optoelectronics**, 24th February 2016. It was conducted by Dr. Aditya Sadhna, Research Associate, Optoelectronics group, Cavendish Laboratory, University of Cambridge.



6.3 SPOKEN TUTORIAL

A Java test was organized by PARIMALA P.V.S.S.A with the course material provided by the Talk to a Teacher project at IIT Bombay. ROHAN BORGALLI invigilated this examination. This training was offered by the Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India.

6.4 ORIENTATION PROGRAM

- On behalf of Board of Studies of Electronics Engineering, University of Mumbai, the orientation program for the subject Mobile Communication, Semester VIII ETRX, was organized on, 13th Jan 2015 at S.A.K.E.C by Electronics Engineering Department. The resource person was Dr. Rajani Mangala from Vivekanand Education Society’s Institute of Technology and the program was co-ordinated by Prof. Vidya Gogate along with Head of the Department, Dr. Uma Rao.



- On behalf of Board of Studies of Electronics Engineering, University of Mumbai, the orientation program for the subject **Advanced Networking Technologies**, Semester VIII ETRX, was organized on, 18th Jan 2015 at S.A.K.E.C by Electronics Engineering Department. Prof. Dayanand Ambawade from Sardar Patel Institute of Technology and Dr. A. M. Kamkar from South Indian Education Society were the resource persons. The orientation program was co-ordinated by Prof. Shubhangi Motewar and Prof. Asha Durafe.



7. STUDENT ARTICLE

SUBCONSCIOUS HUNTER

“The beginning of this year 2049 commences with a major breakthrough.” Mr. Lad just roared with enthusiasm as he proceeded with the statement. “The dubiousness of this mystery has now been unravelled. A problem which has been frequently mentioned in all those sophisticated science fiction novels, movies and especially conceived by your mind on several occasions, when you really want to know what the opposite person must be up to. What is he dreaming about? What does he think about me? How was his childhood like? This glorious invention can answer such infinite questions so easily. “The cracking achievement which we have accomplished is because of our neuroscientists who have succeeded in converting memories into perfect visuals

such that the memories are realistic enough to baffle you in distinguishing whether the 12K display monitor is demonstrating a memory hidden within the conscious of a person, or you are just watching a movie. We have also worked onto the audio part. We have named this invention “Subconscious Hunter”.

The audience applauded with amazement. Mr. Lad continued “However our final tests which would be performed on random individuals have been pending which we would shortly complete in the upcoming days. Soon after the results, mass manufacturing of this magnificent device, producing marvellous videos, would commence. So the next day itself 3 different people from corners of this haphazard country were chosen at random. The first guy was an astute guy named Adam from the city Mumbai. The female choice was an established middle class girl named Sharon from the North, while the third one was a filthy guy, with a terrible criminal record to his name, named Bruce. Diversity had to be the key for the success of this experiment. So these three had to undergo this test procedure which is estimated to consume almost 9 hours of their day.

However the strategy they followed was to reverse the process of the events. So it would be like time would move in the reverse direction.

Phase-1:

A well-dressed guy of 32 years of age sat on the specially designed chair. He was curious and questioned the assistants busy fitting the helmet on his brain, the functions and how it would enable the computer to read. The scientist injected him with a sleep drug. So that the unconscious mind, could be accessed and the person as such would have no control over his thoughts. Otherwise he could probably control the whole show on the mega screen. Just then a huge 200 inch screen glowed with diverse colours. There

was this traditional wedding scenario with that typical wedding music being played behind. This self-established astute guy was getting married. The bride seemed to be his sweetheart for a long time. The ambience was filled with joy, and brightness out there made everything glow. Later, he seemed to be frying something on that pan, while busy listening to slow music. Just then a kid calls in from inside. “Daddy is the breakfast ready?” To which his agile reply was “Just a minute son.” His wife enters the room “Darling Good morning, today you are making us breakfast?”

He is the most hardworking guy, and hard work has always found more appreciation than talent at any point of time. And henceforth he is busy, presenting all slideshows, making deals on behalf of his company and thus the scene ends right there.

Phase-1:

The pretty woman was something everybody was looking forward to test. Her age as of now was 40 years, but she had aged gracefully and still had that beautiful face and assets of a woman in 20’s. The wireless helmet having millions and millions of sensors was loaded onto her head.

There was this text which she got, and it displayed “Our marriage is over; I am going away with this new girl I found” That image revolved around the screen for some time, so probably that must have had a very long lasting impression on her brain. So her first husband had cruelly cheated on her leaving her in agony. Which made her marry again, and now her second husband owned a restaurant where in she also assisted him. She seemed to have accepted her boorish life. Just sitting on that reception handling cash and frequent calls to her friends, that’s all she seemed to do. It seemed that she had undergone a continuous decay in terms of happiness.

Phase-1:

The security guards bought inside a chained man, his beard reaching almost towards his chest. He must be around 30, with those dark shades under his eyes, depicting the wickedness. The instrument was accommodated with extra care, on his head and then the slideshow slowly began.

A loud scream, came out. The images were blank. This giant went forward and put a huge chopper on a victim’s head. The entire floor was covered in blood. Nobody had thought of this kind of wild violence, the screen had to be shut down, while the computer kept on recording that begrime scene. When that scene was done, they turned on the vast screen. That’s when he was arrested and put behind the bars, and this time it was for life imprisonment. He did not mind what was going on as he was an aimless person, who did not give a damn about tomorrow.

Phase-2:Adam

The screen display radiated a barren land. It was a village, with houses which seemed like archipelago in the calm deserted world. Slowly the pictures blended onto two people working in the field. It seemed to be a couple, sowing the field. Just besides them around 20 feet, there was small boy scribbling something onto the land. He was solving some basic arithmetic sums on the natural canvas. He kept on creating his own questions and answering them in all possible ways.

He continues to study all the time or he is busy thinking about the solutions to those problems, or reading any material he could find to improve himself. His parents work hard on the field and this guy he just studies. Just then one fine day, a person comes and takes this guy away, to a city where he is admitted into a classroom. He seems to be his uncle and that proves a turning point in this child’s miserable life.

Phase-2:Sharon

The memories displayed an innocent child, surrounded by Barbie's. It looked as if the world around her was made up of Barbie dolls and people had been missing. She seemed to comb their hair, put some makeup on them and kept on fiddling with them. It was evident that she belonged to a very rich and prosperous household. Soon her parents came in, and kissed her. They participated in all those things she had been doing. So it was like, first she had everything, she was the princess, all the worldly felicity belonged to her, which time had slowly taken it away. She seemed to have lost of all it. She had been so dependent on her parents. Life had its benediction on her, but not forever.

Phase-2:Bruce

This child had grown into a brutal and savage animal. His schedule for the day probably was to just roam on the streets. Within the slides everyone could see him smoking those cheap drugs. That whistling sound echoed in the room, which he uttered in swag. He used to sit on this particular block under the shade of an immense tree. Robberies, fights were a mundane business for him. Humbleness and kindness seemed to be absent in each every action he performed. The next scene he was seen running in a crowded place, where huge crowd of people seemed to have gathered. Just than he was nagged by the cops and then he was behind those bars.

So the three phase test had been completed and the scientists had collected almost terabytes of data, which included the person's brain activity, along with heart rate at events and numerous such facts at various checkpoints of that test. So probably it was a major success, and the results predict that they soon would be scaling new peaks of success. All the members were delighted, everybody is gladdened by their firm's achievement and the celebrations were evident. Just when it is time to wrap up, MR Lad he notices something really singular about the

whole experiment. When he compares the childhood faces he finds out similarity between them and hence questions his staff. "Did you notice that the faces, they are a bit similar aren't they?" The scientist look amazed, but when they take a look, they also seem to acknowledge it. So they have the blood samples of the individuals and so they decide to run the DNA test on them. And the results storm everybody with surprise. The DNA samples match. The scientists are puzzled and have no explanations for this finding of them. As they had addressed the individuals from various parts of the country, how could they be sibling's and not know about it? When Mr. Lad, was informed about this, the expressions of surprise were evident. So a special investigation team is formed, and the scientist decided to study all the memories generated again. "This would be a secret mission and nobody else except the people present in the room should be informed about this." Mr. Lad commanded.

It started out with a beautiful family, a husband, wife and their child. The couple owned their livelihood through farming and they had everything they needed. They leaded a descent life, and even the nature showered them with plenty of yields every year. Amidst their pleasant life, their son, he is framed for a robbery which he had never committed. Though innocence was prevalent in that mistake, those traditional people seem to notice cruel intentions in his doing, and he his expelled from the village.

His parents beg the village head to forgive him, but the head seems to be a stubborn guy, and dismisses their request in agony. So that innocent child is left with no one to care for, he seems to roam the streets. Polishing shoes, washing cars, working at those untidy dhabas and all this odd jobs is what he did henceforth. And that's how poverty and bad company slowly yet steadily corrupted that soul. With the end of Bruce story, the screen displayed that same couple though their skin seemed a bit wrinkled. Then again that clip wherein the

boy is busy scribbling onto the field, and doing all those arithmetic stuff, reading books, who is recognized as Adam. Here the scientist interrupted and spoke up, "Sir we have been able to obtain some records regarding the village and there we were informed that the couple had three children. So the first one was Bruce, who lost his way due to miserable decision of that village head. The second one is Sharon who is 7 years younger than Bruce and was probably adopted at birth by some rich parents, or was purposely given off as the village still was orthodox and considered a female child a burden. And hence the memories of Sharon, commences from those when she was busy in her Barbie wonderland. And so still without a male child, they conceive again, and that's when they are blessed with this highly successful person at present Adam." Mr. Lad walked up to them and congratulated on their finding. "Gentlemen and women out here, though a completely unexpected situation has arisen from all this, however this does help us to have a better understanding of life and human behavioural patterns. Three siblings and all are on a different road today. Everything about their life at present is dissimilar. Fate is just unpredictable, and so I would wish you all people just to make the most of every moment life has bestowed upon you. Just live it to the fullest. Past tough is no longer a mystery for us, but still future will remain an enigma. But however now it's time to celebrate and thanks a lot all of you for your hard work and support". Mr. Lad then signed off. It was decided that they were not going to inform about this unique findings to anyone, neither those three people as well, as even letting them know about them seemed to make any sense at the present. Either of them would be least interested in it. And even if disclosed they had fear, of media asking why the test were performed on siblings, when diversity was the main motive of this experiment? So it was all going to just remain hidden somewhere, as long as the hard disk and those huge sheets of papers survive. Just when he was escorted to his room, he was

bemused in the thought that "How baffling games life plays sometimes, it gives life a smooth curve sometimes while many a times it completely erodes it."

--- ADITYA LAD BE7

8. M. E. ACHIEVEMENTS

It is a great pleasure to inform you all that our college has marked its presence in the 45th ISTE Annual National Convention and International Conference on "Challenges & Opportunities in Technical Education in the era of Sustainable development," 9th - 11th January 2016. Prof. Vidya Gogate has won **National award** instituted by Larsen and Toubro Limited, Bombay, for having guided **the best M.Tech thesis, 2015** in Electrical and Electronics Engineering (II Prize) titled "*Performance evaluation of PAPR reduction in OFDM Based on Signal Distortion and Signal Scrambling Techniques*" submitted by our ME(Electronics) student, Santhi Laguduva.

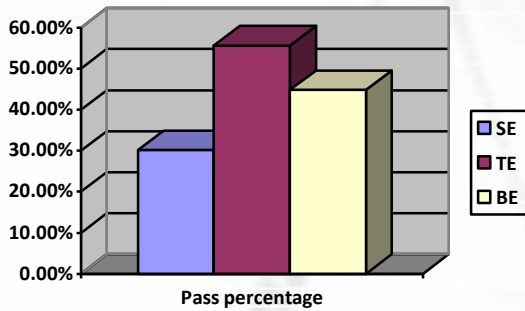


Both were awarded by Honorable Chief Guest Mr. Subhash Desai, Minister of Industries, Ports, Employment and Self Employment – Maharashtra State in the auspicious presence of Mr. Anandrao Adsul, MLA-Amravati, Padmashree P.A. Vaidya, G.S.-HVPM, Amravati, Dr. S.K. Mahajan, Director, DTE, Mumbai, Dr. A.K. Nassa, member Secretary, NBA, New Delhi, Dr. Abhay Wagh, Director, MSBTE, Mumbai, Dr. Pratapsingh Desai,

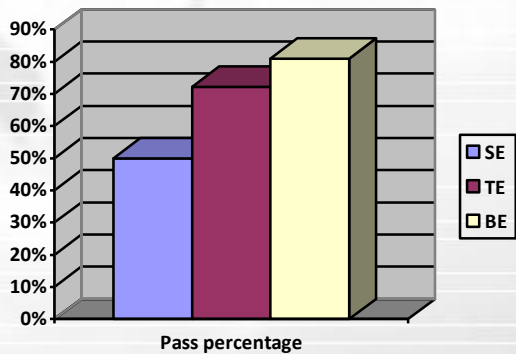
President, ISTE, New Delhi, Mr. Tajima Toshio, NPO Solar Water Green Project, JAPAN.

9. RESULT ANALYSIS

Electronics Engineering Department



Electronics and Telecommunication Engineering Department



10. OUR TOPPERS

ELECTRONICS DEPARTMENT



Gauri Koli
BE SEM-7 : 8.52



Yogita Mahajan
TE SEM-5: 9.86



Jui Koratkar
TE SEM-5: 9.86



Aishwarya Auti
SE SEM-3: 8.92

ELECTRONICS AND TELECOMMUNICATION DEPARTMENT



Anirudh Menon
BE SEM-7: 8.88



Akash Varnaval
TE SEM-5: 9.19



Anuj Jain
SE SEM-3: 10

11 . CREATIVITY CORNER



**DEBLEENA MUKHOPADHYAY
SE-1**



KARAN JAMDAR TE-1



SUNNY DEDHIA BE-7