



# Electronics & Telecommunication Engineering



**NEWSLETTER**

**YEAR: 2014-2015**

## **ABOUT THE DEPARTMENT**

In year 2009, the institute started the Electronics and Telecommunication Engineering course for the benefit of students who are keen on knowing subjects from traditional to modern aspects of Electronics. The department has been continuously striving for excellence in engineering education. The department has always been on a high growth path to keep pace with the ever increasing importance of the major discipline of study and current technology trends. The broad areas of research and academic activities in the department are: Basic Electronics, Communication Systems, Microelectronics and VLSI& embedded systems, communication networks Signal processing, RF and Microwave Engineering, Microelectronics, Computer Vision, Electromagnetics, Communication Networks etc. The Faculty of the department is encouraged to upgrade their knowledge by encouraging them to attend courses, workshops and seminars at state and national levels. The Department has a well-equipped Library in spite of the college having huge central Library with Internet/Wi-Fi access. Department also provides technical help and hands-on workshops on Robotics & FPGA.

## **VISION & MISSION**

Vision :

To be the best at serving society by creating engineering knowledge and educating engineers for dynamic and global careers.

Mission :

To enable our students to develop into outstanding professionals with high ethical standards to face the challenges of the next millennium.

*Everything you've ever wanted is on the other side of fear. –George Addair*



### MESSAGE FROM PRINCIPAL



Dear students,

*Please remember that, “Engineers create the best out of a given situation and Engineering careers are not built in comfort zones”.*

VIVA INSTITUTE OF TECHNOLOGY established in the year 2009, nurtures a unique system of education for creating dynamic leaders in the corporate sector, entrepreneurs, academicians, researchers and professionals who contribute to the development of society and nation at large. It has an aesthetically designed and elegantly built campus furnished with state of art equipment and facilities. Here, education is not only focusing on 4 years B.E. degree course but also creating for the students a platform to realize their dreams, hone their cognition, sharpen their competence and carve out a wholesome personality.

This Institute believes in empowering young students through rigorous curriculum, students participation in R & D, mentor system, value added programs and strong industrial interface. The accomplished team of professor's, grooms and guides students to the best of their capacity. They work most diligently towards synergizing theoretical knowledge and practical skills to promote all round professional competence

Wishing you all the best for the fruitful learning journey at VIVA and for a bright future.

*Nothing is impossible, the word itself says, “I'm possible!” –Audrey Hepburn*



### **WORDS FROM H.O.D.**

Dear students

I take the privilege to welcome you all to the Dept. of Electronics and Telecommunication VIVA Institute of Technology, Shirgaon.

Very soon this semester will come to an end and exams will come knocking at your door steps. Hence it's time to prepare yourself in advance for the coming exams. The motto of our department is '***Nothing can we achieve without genuine effort***'.


Department of Electronics and Telecommunications Engineering aims at training students in the areas of Electronics like Solid state circuits, VLSI, Electronic Controls and Communications Engineering including , Multiple access technology, optical fiber, wireless communication, signal and image processing, mobile communication and Microwave Engineering. One specialty with the department is that students learn published material from journals and generate publications of International quality. We provide opportunity to students to explore their interests in microprocessor and microcontroller based applications, image & video processing, VLSI, Wireless Networking, Embedded systems, Robotics, data compression, signal processing, analog and digital communication.

It is indeed my great pleasure that our department is publishing newsletter etching every aspect of activities and events held in academic session 2014-2015. The newsletter aims to bring into view about various proceeding, functions and happenings in the department.

*"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many alternatives." – William A. Foster*



### KNOW YOUR TEACHERS

Name of Faculty	Responsibilities/Achievements/Experience
 Prof. Archana Ingle	Assistant Professor and Head of Electronics & Telecommunication Engineering Department Qualification – M.E. EXTC with 13 years of teaching experience
	<b><u>Responsibilities</u></b>
	In-charge of Electronics & Telecommunication Engineering Department & college Academic In charge
	Member of Local Management Committee
	Co-convenor of National Conference on Role of Engineers in Nation Building
	In charge of college Cultural Program
	<b><u>Achievements</u></b>
	Paper Published in (IJEECS) International Journal of Electrical, Electronics and Computer Systems
	Paper published in International Journal of Emerging Technology and Advanced Engineering
	Two papers published in National Conference on Role of Engineers in Nation Building, Viva Institute of Technology
 Prof. Karishma Raut	Assistant Professor- Qualification – M.E. EXTC, PGDCA, ADCA with 13 years of teaching experience
	<b><u>Responsibilities</u></b>
	Faculty Co-coordinator for Student Projects
	Department coordinator for university Examination
	Coordinator of NCRENB & Treasurer of Women Development cell
	<b><u>Achievements</u></b>
	Paper published/presented in <ol style="list-style-type: none"> <li>1) International journal of scientific engineering research</li> <li>2) Global Journal of Researches in Engineering</li> <li>3) Proceedings of IJCA, ICWET</li> <li>4) National Conference on Role of Engineers in Nation Building</li> </ol>



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	Successfully Completed M.E. (Electronics & Telecommunication) with distinction
Name of Faculty	Responsibilities/Achievements/Experience
 Prof. Madhura Tilak	Assistant Professor
	Qualification – M.E. EXTC with 7 years of teaching experience
	<b><u>Responsibilities</u></b>
	Co-coordinator for Oral / Practical Examination
	Coordinator for workshop/seminar/conference
	Coordinator for project Exhibition - NCRENB
	<b><u>Achievements</u></b>
	Successfully Completed M.E. (Electronics & Telecommunication) with distinction
	Paper published/presented in
	1) International Journal of Innovative Technology and Exploring Engineering (IJITEE)
	2) National Conference on Role of Engineers in Nation Building
	3) International Conference On Emerging Trends In Technology And It's Application
	E-yantra Teachers competition on Robotics
 Prof. Pratik Parsewar	Assistant Professor
	Qualification – M.E. EXTC with 5 years of teaching experience
	<b><u>Responsibilities</u></b>
	Department Representative for Training and Placement Cell
	Faculty coordinator for exam revaluation
	<b><u>Achievements</u></b>
	Paper published/presented in
	1) International Journal of Engineering Research & Technology (IJERT)
	2) International conference held at S.B. Patil college of Engg, indapur, Pune.

*Believe you can and you are Halfway there – Theodore Roosevelt*





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**YEAR: 2014-2015**

Name of Faculty	Responsibilities/Achievements/Experience
 <p>Prof. Nikita Thalia</p>	Assistant Professor
	Qualification – M.E. EXTC with 5 years of teaching experience
	<b><u>Responsibilities</u></b>
	Departmental Newsletter Faculty Co-coordinator.
	Departmental Minutes of meeting faculty Co-coordinator.
	Co-coordinator for Oral / Practical Examination
	Coordinator for department timetable
	<b><u>Achievements</u></b>
	Successfully Completed M.E. (Electronics & Telecommunication) with 8.86 CGPI
	Paper published in International Conference on Advances in Computing and Information Technology, Elsevier
	Two papers published in National Conference on Role of Engineers in Nation Building, VIVA Institute of Technology
 <p>Prof. Kushal Suvarna</p>	Assistant Professor
	Qualification – B.E. EXTC with 4 years of teaching experience
	<b><u>Responsibilities</u></b>
	Faculty coordinator for Industrial Visit
	Coordinator for Departmental Library



*Accomplishment will prove to be a journey, not a Destination – Dwight. D. Eisenhower*



Name of Faculty	Responsibilities/Achievements
 Prof. Meena Vallakati	Assistant Professor
	Qualification – M.E. EXTC with 7 years of teaching experience
	<b><u>Responsibilities</u></b>
	Department Coordinator for Industrial Visit
	Department coordinator for National Conference
	Coordinator for activities under VIVA - IETE
	Faculty coordinator for Exam Revaluation
	<b><u>Achievements</u></b>
 Prof. Shoeb Shaikh	Paper published/ Presented in
	1) ICWET International Conference & Workshop on Emerging Trends in Technology.
	2) IJCSI International Journal of Computer Science
	3) International Journal of Global Technology Initiatives(IJGTI)
	4) Three papers - National Conference on Role of Engineers in Nation Building (NCRENB)
	Assistant Professor
	Qualification – B.E. EXTC with 4 years of teaching experience
	<b><u>Responsibilities</u></b>
	Faculty coordinator for exam moderation
	Lab in-charge of control system & instrumentation Laboratory
	<b><u>Achievements</u></b>
	Paper presented in National Conference on Role of Engineers in Nation Building (NCRENB)

*We are what we repeatedly do. Excellence, therefore, is not an act but a habit. -- Aristotle*



Name of Faculty	Responsibilities/Achievements
 <p>Prof. Kaustuba Desai</p>	<p>Associate Professor Qualification – B.E. EXTC with 3 years of teaching experience</p> <p><b><u>Responsibilities</u></b></p> <p>Departmental course file coordinator</p>
 <p>Prof. Chitra Takle</p>	<p>Assistant Professor Qualification – M.E. EXTC with 3 years of teaching experience</p> <p><b><u>Responsibilities</u></b></p> <p>Faculty coordinator for Student guest lectures Faculty coordinator for Seminar/workshop coordinator for Student Aptitude test Department coordinator for group discussion</p> <p><b><u>Achievements</u></b></p> <p>Paper published/presented in</p> <ol style="list-style-type: none"> <li>1) Global journal of researches in Engineering</li> <li>2) International journal of engineering Research &amp; technology</li> <li>3) National Conference on Role of Engineers in Nation Building (NCRENB)</li> </ol> <p>Successfully Completed M.E. (Electronics &amp; Telecommunication) with distinction</p>

*The expert in anything was once a beginner. – Helen Hayes*





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Name of Faculty	Responsibilities/Achievements
 Prof. Ashwini Kothavale	Assistant Professor Qualification – B.E. EXTC with 6 years of teaching experience <u><b>Responsibilities</b></u> Faculty Coordinator for Circular/Notice
 Prof. Mohini Ghotekar	Assistant Professor Qualification – B.E. EXTC with 3 years of teaching experience <u><b>Responsibilities</b></u> Department Coordinator for Student Aptitude test

*Secrets of Excellence*

*“Only those who will risk going too far can possibly find out how far one can go.” –J.S. Flit*





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NEWSLETTER

YEAR: 2014-2015

Name of Faculty	Responsibilities/Achievements
	Assistant Professor Qualification – B.E. EXTC with 2 years of teaching experience
	<b><u>Responsibilities</u></b>
	Result Analysis Co-ordinator
	Assistant Professor Qualification – M.E. EXTC with 6 years of teaching experience
	<b><u>Responsibilities</u></b>
	Department Representative for Training and Placement Cell
	Faculty coordinator for Exam Moderation
	<b><u>Achievements</u></b>
	Paper published in <ol style="list-style-type: none"> <li>1) International Journal of Scientific and Engineering Research</li> <li>2) International Journal of Advancements in Research and Technology</li> </ol>
	Successfully Completed M.E. (Electronics & telecommunication) With First class

*In order to succeed, your desire for success should be greater than your fear of failure. – Bill Cosby*



Prof. Dipti kale

Assistant Professor

Qualification – M.E. EXTC

### Responsibilities

Department Coordinator for mentor system

### Achievements

Paper published/presented in

- 1) International Organization of Science and Research
- 2) International Journal of Electrical, Electronics and computer Sciences (ICEECS),
- 3) International Conference on Electrical, Electronics and computer Sciences (ICEECS)



Prof. Nirav Patel

Assistant Professor

### Responsibilities

Department coordinator for College Website Development committee.

Coordinator for Student Aptitude test & Group discussion

Coordinator for Project Exhibition

### Achievements

Papers published/presented in

- 1) IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT)
- 2) International Conference on Electronics and Telecommunication, Electrical and Computer Engineering
- 3) National Conference on Role of Engineers in Nation Building

Successfully Completed M.E. (Electronics & telecommunication) with 8.36 CGPI

*There is no substitute for hard work. – Thomas Edison*



### **WORKSHOP/SEMINAR ATTENDED BY FACULTY**

- Mrs Archana Ingle & Mrs. Karishma Raut attended a Two Week Main Workshop on Control systems, under National Mission on Education through Information & Communication Technology, IIT KHARAGPUR at St. Francis Institute of Technology , BORIVLI from 2<sup>nd</sup> Dec 14 –to 12<sup>th</sup> Dec 14
- Mrs Archana Ingle & Mrs. Madhura Tilak participated in AICTE approved (under QIP) One week STC on “Signal Processing and Applications” at VJTI, Mumbai. During 23<sup>rd</sup> Feb – 27<sup>th</sup> Feb 2015.
- Mrs. Madhura Tilak attended E-Yantra Robotics Teachers Competition (eYRTC) was organized as a part of the e-Yantra Symposium (eYS) 2014, at Indian Institute of Technology Bombay (IIT Bombay) from April 10-11, 2014
- Mrs. Madhura Tilak attended E-Yantra Robotics Teachers Competition (eYRTC) was organized as a part of the e-Yantra Symposium (eYS) 2015, at Indian Institute of Technology Bombay (IIT Bombay) from April 10-11, 2015
- Ms. Nikita Thalia participated in AICTE sponsored one week faculty development program on advances in wireless communication at VJTI , Matunga from 3<sup>rd</sup> to 7<sup>th</sup> Feb 2014
- Ms. Nikita Thalia attended a Two days MHRD-TEQIP KIT workshop - CDEEP on Electromagnetics: Pedagogy and research trends IIT Bombay during 23<sup>rd</sup> & 24<sup>th</sup> Jan 2015
- Ms. Nikita Thalia participated in Three days’ workshop on network simulator, Terna college of Engineering, Nerul West (07, 08, & 09<sup>th</sup> Feb 2014)
- Ms. Ashwini Kothavale attended a Workshop on Embedded Design using ARM Cortex M3 series by C-DAC, K.J.S.I.E.T, Sion during 29<sup>th</sup> December 2014– 2<sup>nd</sup> January 2015
- Ms. Chitra Takle attended The e-Yantra organized as a part of the e-Yantra Symposium (eYS) 2015, being organized at Indian Institute of Technology Bombay (IIT Bombay) from April 10-11, 2015
- Ms Nutan Malekar participated workshop on “ArthoBotix” conducted by Technophilia system in association with Robotics & computer applications institute of USA held at VIVA institute of Technology on 26<sup>th</sup> & 27<sup>th</sup> March, 2015



### EVENTS

#### 1) IETE workshop on SIXTH SENSE

The workshop was based on “SIXTH SENSE” which covered following applications such as COLOR RECOGNITION APPLICATION, GESTURE CONTROLLED WINDOWS MEDIA PLAYER, GESTURE CONTROLLED MOUSE POINTER which was conducted by ARK Techno solutions with Mr. Vishal Padghan as the speaker and was assisted by Mr.Nilesh Chaudhari on 5<sup>th</sup> & 6<sup>th</sup> September 2014

Mr. Vishal introduced themselves to the participants and enlightened them with Introduction to Robotics & its application.



*Failure will never overtake me if my definition to succeed is strong enough”. -  
A.P.J Abdul Kalam*

### 2) HITAISHI 2015

Students of VIVA Institute of Technology, Virar organised annual cultural and Sports events under the banner of “HITAISHI” between 19<sup>th</sup> Jan’15 and 24<sup>th</sup> Jan’15. The Cultural Events were: Dance, Singing, Photography, Rangoli and others. The Sports Events were: Cricket, football, Volleyball, Chess, Carom, Badminton and many more.



Annual day function – Prize distribution



Annual day function – Fashion show

*“Courage is the most important of all the virtues because without courage, you can't practice any other virtue consistently.” - Maya Angelou*

### 3) NCRENB 2015 & PROJECT EXHIBITION

#### National Conference on Role of Engineers in Nation Building (NCRENB)-2015

The main objectives of the National Conference & project exhibition are to advance knowledge in building sciences in general and in aspects of building and construction in particular; to solve long-range problems of the building sector through methodological research and development; to provide support in solving short-term needs in areas where its expertise is crucial; and to disseminate knowledge and transfer technology.

Total 31 Papers were received in TRACK-EXTC. Out of which 27 Papers for 99 authors were accepted. The paper submission system was online managed by [www.easychair.org](http://www.easychair.org). The papers were reviewed by a panel of internal as well as external reviewers. All papers were finally approved by program convener **Dr. Arun Kumar** for uploading on IJCA Digital Library. NCRENB-2015 process was arranged and supervised by: Prof. Archana Ingle; Co-convener-NCRENB-2015, H.O.D. (EXTC)



Keynote Address by Principal



Proceeding CD released on Inaugural Function



NCRENB-2015 Core Committee Members



Welcome of Session Chair by Principal



Venue IV TRACK EXTC



Mr. Prashant Karnik- Guest Speaker



Valedictory Function

*"The things you do for yourself are gone when you are gone, but the things you do for others remain as your legacy." - kalu ndukwe*



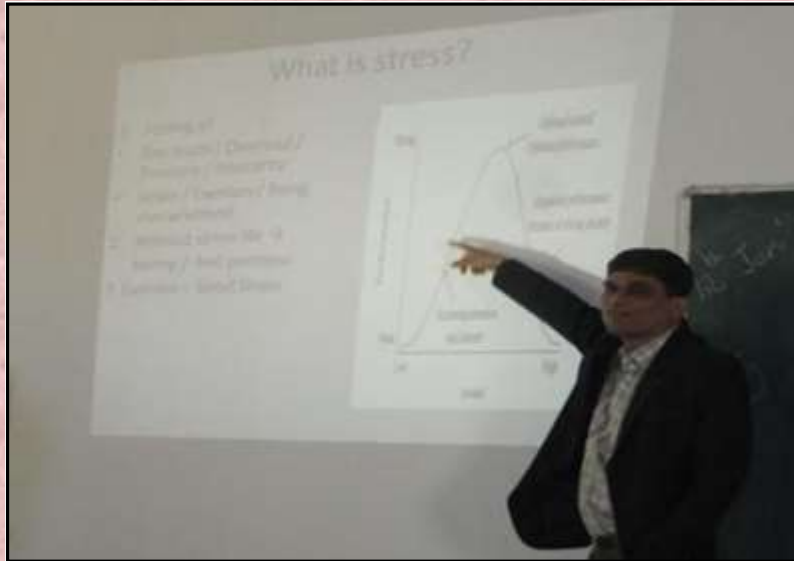
Project Demonstration

*"Imagination is the highest form of research." - Albert Einstein*



### 4) GUEST LECTURES

- ❖ **STRESS AND TIME MANAGEMENT** lecture by **Mr. Sandeep Nemlekar** - director and founder of Deep Archan Management Consultancy. He has 27 years of experience and has also conducted 350 hours of sessions on various subjects on 12<sup>th</sup> Jan 2015. Number of students attended : 78



Stress & Time management session by Mr. Sandeep Nemlekar

- ❖ Guest lecture by **Jayshree Kodi** on Personality development- Asst. manager at WNS global services pvt. Ltd on 16thjan 2015, – Number of students attended : 71
- ❖ Guest Lecture by **Prof. Pratibha Sudhakaran** on **Low Noise Amplifier** from Xaviers Institute of Engineering – 25<sup>th</sup> march 2015: No of students present: 72

*"Your conscience is the measure of the honesty of your selfishness.  
Listen to it carefully." - Richard Bach,*



### 5) INDUSTRIAL VISIT

#### ❖ Giant Metre wave Radio Telescope (GMRT) – 31<sup>st</sup> Jan, 2015

The main objective of this visit is, as a part of Electronics and Telecommunication Engineering curriculum, the students need to know practical fundamentals, implementation, functionality, and mechanism of antennas. To get the knowledge of the Radio Telescope, different components involved, hardware-software co-design, data analysis etc.

The Giant Metre wave Radio Telescope (GMRT) observatory at Khodad which is the world's most powerful telescope operating at low radio frequencies, was built and is being operated by the National Centre for Radio Astrophysics (NCRA) of the Tata Institute of Fundamental Research (TIFR). The GMRT consist of 30 fully steerable gigantic parabolic dishes of 45m diameter each spread over distances of up to 25km. GMRT is one of the most challenging experimental programmes in basic science undertaken by Indian Scientists and engineers.



**An antenna of the Giant Metrewave Radio Telescope**



**Radio Telescope for radio astronomical research**

### ❖ Yashna Circuits Pvt Ltd- 31stjan , 2015

Yashna Circuit is the PCB manufacturer based in (Mumbai) India. Supplying in electronics such as BEL, Wipro, Tata Power, BPL Telecom, Electronumatic Hydraulic Ltd. Yashna Circuit fully meets the international quality standards & having membership with IPCA (INDIA). PCB quality standard is approved by C-DOT, CTCA, Indian Telecom & Major Public sector Companies.

*“Reminds us that greatness lies even in the smallest of moments, in the humblest of hearts, and we shall, each of us, be called to greatness. Whether we shall rise to meet it or let it slip away is the challenge put before us all.” - Libba Bray.*

### 6) CONVOCATION CEREMONY

Degree certificate distribution was conducted at VIVA Institute of Technology for 2014 batch on 2nd Feb, 2015



Degree certificate distribution by Dr. Arun Kumar



Certificate distribution by Prof. Archana Ingle



Certificate distribution by Prof. Karishma Raut



EXTC Department students & staff

*"Our biggest regrets are not for the things we have done but for the things we haven't done" - Chad Michael Murray*



### STUDENTS ACHIEVEMENTS

Year	Name of student	Event	Organization
II	Aayush Bhide	Mono acting- 1st Prize	L.R.Tiwari college of Engineering, Bhyandar
		Street Play- 3rd Prize	Atharva College of Engineering , Malad
		Morse Coding Techchase'14- 1st Prize	VIVA-TECH
		Hydromaze- 1st Prize	
	Rakesh Irkar	Chess -1st Prize	
		Kabaddi- 2nd Prize	
	Krupesh Mhatre	Volleyball- 1st Prize	
		Jugaad techchase Event- 1st prize	
	Paras Sawant	Badminton-3RD Prize	
III	Pratik Mohite Janhavi Dalavi	Mr. & Ms. HITAISHI- 1st Prize	VIVA-TECH
	Vishal Bhosale Ronak Bamrotia Omkar Bhelsekar Sudhir Chandivade	NRC Workshop- Zonal Winner	

*"Inspiration is a guest that does not willingly visit the lazy." - Pyotr Ilyich Tchaikovsky*



### **STUDENTS ACHIEVEMENTS**

Year	Name of student	Event	Organization/place
III	Rujuta Kamble	National Level SAILING- Bronze Medal	Hyderabad
		District Level Air Rifle Shooting – Gold and Silver Medal	Mumbai
IV	Bhuchhada Jaykumar Dabhi Amankumar Prabhu Satish Shetty Pratik	Project Exhibition - - Skeleton tracking based human action Recognition using Kinect & Arduino	Universal college of Engineering
	Ankit Agaskar AnnaldasLalit AjgaonkarPrachi Joshi Shreyas	MATLAB – Arduino based industrial conveyor belt	Universal college of Engineering
II	Rakesh Irkar	Cricket – 1 <sup>st</sup> prize	Theem college of Engineering

*“The quality of a man's life is in direct proportion to his commitment to excellence, regardless of his chosen field of endeavor.” - Vince Lombardi*



**STUDENT TOPPERS**

**Congratulation**

**B.E. (EXTC) – Sem VII**

<b>1<sup>st</sup> Rank: Rinkita Patil</b>	<b>76%</b>
<b>2<sup>nd</sup> Rank: Rishikesh Gaikwad</b>	<b>73%</b>
<b>3<sup>rd</sup> Rank: Sayali Gharat</b>	<b>72.5%</b>

**S.E. (EXTC) – Sem III**

<b>1<sup>st</sup> Rank: Abyankar Swapnil</b>	<b>9 CGPI</b>
<b>2<sup>nd</sup> Rank: Sushma Dhaware</b>	<b>8.52 CGPI</b>
<b>3<sup>rd</sup> Rank: Akshay singh</b>	<b>8.52 CGPI</b>

**T.E. (EXTC) - Sem V**

<b>1<sup>st</sup> Rank: Prathamesh Mandavkar</b>	<b>8.89 CGPI</b>
<b>2<sup>nd</sup> Rank: Niyati Bari</b>	<b>8.67 CGPI</b>
<b>3<sup>rd</sup> Rank: Jai Kudu</b>	<b>8.11 CGPI</b>

**Congratulation**

***Jaykumar Bhuchada & SatishPrabhu***

- *Got selected in L & T infotech*

***Anoop Tiwari & Lalit Kumar Annaldas***

- *Got selected in CMS Info system Pvt. Ltd*



### **ALUMINA CORNER: STUDENT SPEAKS**

My experience in this marvelous institution cannot be summed up in a few lines. It's a vast, boundless memory that will remain etched in my heart forever. The college has been an epitome of knowledge. It helped me to recognize my talents and to utilize my potential to the fullest. The expert faculty with their patient guidance and encouragement exhorted me to excel. Periodic Workshops, Student benefit organizations not only enhanced my knowledge data base but these activities also sharpened my management skills. I am and will forever be indebted to this amazing institution. My best wishes to the college administration and I hope this support continues always for the forthcoming batches in the years to come.

A big Thank you!! Regards,

*Manish Dowari*

After 4 years being as student, it was difficult and emotional moment for me "The last lecture" believe me you will experience the same whoever you are, infatuated with college or not once you get into corporate world you going to miss those college days. I still remember the first day at college, frankly speaking it was hard for me to cope up with engineering syllabus and the first sight of partially constructed college. But, I always believed the beauty is in the eye of beholder. So, gradually made few awesome friends and things changed for me. I participated in every fest and coordinated events. For those who are fresher, I will advice enjoy your college life to the fullest and those who the about to graduate All the best guys!! Wish you a better future.

*- Gaurav Bhogale*

[Always an EXTC student of VIVA in my heart....]