

**Department Mission**

To develop Electronics & Telecommunication Engineers with patriotism and excellence to meet out the irresistible standards par locally and globally.

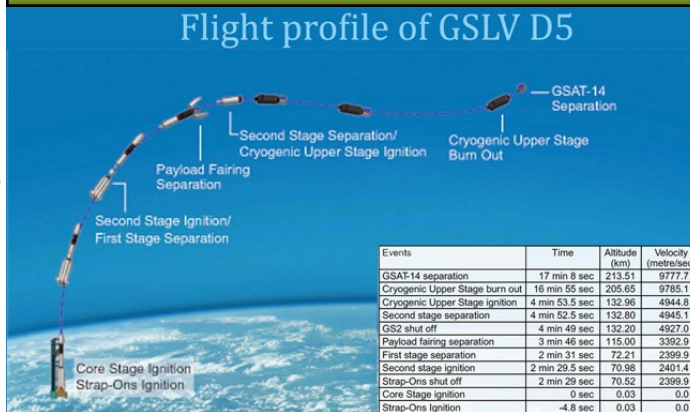
**Department Vision**

The light of progressive knowledge and the brilliance of Electronics & Telecommunication Engineering is chasing the path towards Excellence for achieving an irreplaceable height in the global fraternity.

**Features**

- 1) Experienced & Qualified faculties
- 2) NBA Accredited in 2008
- 3) 12 Labs equipped with all state of art equipments
- 4) 2 PG & 1 UG Computer lab with latest configuration PCs
- 5) MATLAB, Xilinx. CC Studio etc. Software
- 6) NPTEL lectures
- 7) IEEE Student Branch
- 8) IETE Student Forum

**Indian Cryogenic Engine & Stage and GSLV - D5**



This success, coming after two consecutive failures of previous flights of GSLV-D3 and GSLV- F06 in 2010, has demonstrated the ability of the organization to cope-up with set backs, implement objectively the corrective actions with determination and accomplish the goal. GSLV-D5 has successfully put a communication satellite GSAT-14 into a precise GTO orbit. The health of the satellite is normal.

The successful flight testing of indigenous cryogenic stage onboard GSLV-D5 Flight on January 5, 2014 was a major land mark technological milestone in achieving self-reliance in India's Cryogenic Launch Vehicle technology. Geosynchronous Satellite Launch Vehicle (GSLV) is capable of placing 2 Tonne class communication satellite into Geosynchronous Transfer Orbit (GTO) and India is one among six countries in the world to demonstrate such launch capability to GTO with the use of complex cryogenic technology.

**Latest Innovations USB Stick**



U Transfer is a new concept where it eliminates the middle man, which is the computer, and enables you to transfer files between USB sticks directly. It also features a little touch screen which will enable you to browse around for the file you want to transfer.

**Penned by the Editor**

**The Dew Drop**



As the sun rose, a dew drop became aware of its surroundings. There it sat on a leaf, catching the sunlight and throwing it back out. Proud of its simple beauty, it was very content. Around it were other dew drops, some on the same leaf and some on other leaves round about. The dew drop was sure that it was the best, the most special dew drop of them all. Ah, it was good to be a dew drop. The wind rose and the plant began to shake, tipping the leaf. Terror gripped the dew drop as gravity pulled it towards the edge of the leaf, towards the unknown. Why? Why was this happening? Things were comfortable. Things were safe. Why did they have to change? Why? Why?

The dew drop reached the edge of the leaf. It was terrified, certain that it would be smashed into a thousand pieces below, sure that this was the end. The day had only just begun and the end had come so quickly. It seemed so unfair. It seemed so meaningless. It tried desperately to do whatever it could to cling to the leaf, but it was no use.

Finally, it let go, surrendering to the pull of gravity. Down, down it fell. Below there seemed to be a mirror. A reflection of itself seemed to be coming up to meet the dew drop. Closer and closer they came together until finally...

And then the fear transformed into deep joy as the tiny dew drop merged with the vastness that was the pond. Now the dew drop was no more, but it was not destroyed. It had become one with the whole.

## Departmental Events

**Guest Lecture on ESWD & IP Tax**

Mr.Satish Kr Patil, S.D.E. Jalgaon delivered a guest lecture on the above topic for final year students in E & TC seminar hall on 21st January 2014. This activity was conducted under the banner of IETE Student Forum. The program was coordinated by Mr.H.N.Kamlaskar.

**Expert Lecture on Automation techniques used in product development**

Mr. Swapnil C. Adokar, from Philips Electronics India Ltd Healthcare R&D Center delivered an expert lecture on "Automation techniques used in product development" on 22nd February 2014 for final year students. The venue for the event was E & TC seminar hall. This activity was conducted under the banner of IETE Student Forum. The program was coordinated by Mr.H.N.Kamlaskar.

Director of Administration, Prof.S.R.Suralkar felicitated Mr.Swapnil Adokar. Prof.D.U.Adokar (Head, Electrical Engg.), Prof.Dr.U.S.Bhadade (Head, E & TC Engg.) & Prof.Dr.M.P.Deshmukh were also present at the time of felicitation.

**Expert Lecture on Application areas of Microprocessor**

Prof.Mrs.Prabha Kasliwal from MIT, Pune delivered an expert lecture on the Application areas of Microprocessor on 21st February in which the students of second year actively participated. The venue for the event was E & TC seminar hall. This activity was conducted under the banner of IETE Student Forum. The program was coordinated by Mr.H.N.Kamlaskar.

**Training Program on PLC conducted by Indo-German Tool Room, Aurangabad**

A month long training program was carried by IGTR, Aurangabad from 17th February 2014 to 20th March 2014 from SC/ST candidates of E & TC department in the U.G.Computer Lab.

The activity was coordinated by Mr.R.N.Deshmukh & Mr.H.N.Kamlaskar.

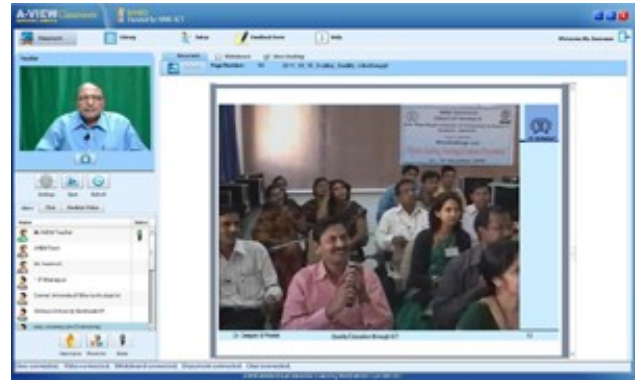
**Departmental Events**



**Two days workshop on MATLAB**

Two day’s workshop on “MATLAB” was demonstrated by Prof. Dr. C.Y.Patil & Dr. P.D. Shendge of Instrumentation Engg. Department, College of Engineering, Pune on 14th & 15th March 2014 for Final year students in the U.G.Computer Lab.

The activity was coordinated by Prof.Dr.M.P.Deshmukh & Mr.H.N.Kamlaskar.



**ISTE Workshop on Signal & Systems**

Under the NMEICT programme, two-week ISTE workshop on Signal & Systems was held during 02nd January to 12th January 2014 conducted by IIT Kharagpur. Live lectures were given by IIT faculty. A total of 19 participants from different colleges took part in the workshop.

Dr.P.H.Zope has coordinated the event. The venue for the workshop was PG research Lab.

**Visit of NBA Peer team**



**Expert lecture on Business Excellence**

An expert lecture on Business Excellence was delivered by Mr. Ravindra Gajbhiye from Legrand (India) Pvt. Ltd. Jalgaon on 22nd March 2014 for SE,TE & BE undergraduates in E & TC Seminar hall. This activity was conducted under the banner of IETE Student forum. Prof.S.A.Hingonekar coordinated the event.



The NBA peer team visited the E & TC department during 28th - 30th March 2014.

Mr.M.R.Nayak, an Eminent Scientist from HAL, Bengaluru & Dr.C.K.Sarkar, an Eminent scholar from Jadavpur University, West Bengal were the committee members.

## Industrial Visits

### DRM Office, Central Rly, Bhusawal



The students of BE A & BE B had visited DRM office Bhusawal respectively on 21st & 22nd February 2014. Mr.Rahul Deshmukh was the trip coordinator. Prof.S.U.Nyati, Mrs.D.R.Patil & Miss.Priyanka Girase accompanied the students.

### Bhusawal Thermal Power Station, Bhusawal



The students of BE A & BE B had visited BTPS, Bhusawal respectively on 10th & 11th March 2014. Mr.Rahul Deshmukh was the trip coordinator. Mr.Bhushan N Patil accompanied the students.

### Legrands Pvt Ltd Jalgaon



The students of TE A had their one day Industrial tour in Legrands Pvt.ltd Jalgaon on 25th February 2014. Mr.Rahul Deshmukh was the trip coordinator and Miss.Priyanka Koshti accompanied the students. The students of TE B had their one day Industrial tour in the same company on 19th March 2014. Mr.Rahul Deshmukh and Miss.Priyanka Koshti have visited along with the students.

### ETESA activities

Mr.R.S.Kalsi was the coordinator for the Aptitude test which was held in E & TC seminar hall for Final year students on 25th March 2014.

Mr.H.N.Kamlaskar was the coordinator for the Aptitude test which was held in E & TC seminar hall for Final year students on 31st January 2014.

### GATE Mock test 2014

Prof.P.J.Shah had organized a mock test for GATE 2014 as a preparatory stage for final year students on 10th February 2014. Many students had participated in this event.

## Introduction to Electronics Components & Equipments

Dr.M.P.Deshmukh was the coordinator for a day workshop on the above subject for SE students on 22nd March 2014 in which the speakers were Mrs D.R.Patil, Mrs.M.T.Deshmukh, Miss.P.M.Shanbhag & Miss.A.B.Sapkal.

### Blood donation camp

In association with Indian Red Cross Society, ETESA has organized a grand Blood donation camp on 11th April 2014 keeping its tradition to serve Mankind whole heartedly. Prof.A.C.Wani was the coordinator from the department. In this camp, mostly staff members and students had participated. The participants were offered certificates.

### Words of Wisdom



*"Purity, Patience & Perseverance are the three essentials to Success, and above all, Love"*

Swami Vivekanand

## Students Activities

### Statistics

The overall summary of the student participation in the academic year 2013-14 reflects a nice statistics which describes the eagerness of SSBTians to pursue for excellence. This year our 67 students have participated in various National Level Paper presentation, 16 in various workshops/seminars, 111 in various National level project exhibition & 219 in other rest National technical events.

### Students awarded in various events

**Mr.Ravindra Singh** of final year and his team Indus finished as the finalist in Lunar Rover Challenge SHAASTRA 2014 organized by IIT Madras on 04th & 05th January 2014.

**Mr.Bhushan Chauhan** of **TE B** won second prize in PLC programming at TECHNOARENA 2K14 held on 11th-12th March 2014 at Government College of Engineering Jalgaon.

**Mr.Ajay Sonawane** of **TE A** secured Second prize in poster presentation in SSBT fest 2014 held on 07th March 2014. **Miss Snehal Hire & Miss Priyanka Khairnar** of **TE B** bagged second prize in the event box cricket.

### Milestone 2K14

A National level paper presentation Milestone 2K14 was held on 8th March 2014 in which a total of 32 participants from UG took part. 02 PG candidates registered their names & 03 candidates from diploma took part in the event. **Miss. Utkarsha Kachane & Miss. Jagruti Bramhane** from Govt. COE Jalgaon won First prize for the paper Microelectronic pills. Miss. Dipika Ghate & Miss. Swati Mukherjee (SSBTians) won second prize for the paper Silent sound technology & Miss.Rupali Nimbalkar & Miss. Pallavi Shelke from GCOE Jalgaon third prize for 3D printing.

**Miss.Swati Bhaged** won first prize in Diploma category for mobile cellular system & **Miss.Priyanka Chavan** won second prize for her paper E waste. Both were belonging from S.N.N.P Women's Polytechnic.

**Miss Priyanka Koshti** bagged first prize in PG category for her paper A Survey on recognizing cartoon image gesture for removal and interactive cartoon clip synthesis.

The venues were Class room 301 & 302.

Mr. Vilas P. Gade, Deputy Manager, Legrand India Pvt Ltd was the External Judge for the event where as Prof.P.J.Shah was the internal judge for the event. Mr. Vilas Gade was felicitated by Dr. U.S.Bhadade,H.O.D E&TC Department and Mr.P.J.Shah was felicitated by N.M.Kazi, Assistant Professor E& TC Department. The program duration was 11.30 am to 4.30 pm.

With the efforts taken by H.O.D.(E&TC) Dr U. S. Bhadade, D.O.A Prof S.R.Suralkar, Departmental Event co-ordinator Rohan A. Kandalkar , Rahul N.Deshmukh and other staffs, the event was smoothly and successfully organized.

### GATE 2014 qualified candidates



Marks 36.67  
AIR 11175  
GATE score 490



Marks 31.33  
AIR 17415  
GATE score 432



Marks 19.33  
AIR 55001  
GATE score 272



Marks 18.67  
AIR 61326  
GATE score 255

The meritorious students of our department have made us really proud by qualifying GATE exam and thus have added numbers in recognition of the achievement list of E & TC department this time.

On behalf of Head & Faculty members, we congratulate them on success and convey them best wishes for similar ventures in their future prospective.

## UG Section

## PG Section

## Result at Glance

## Result at Glance

## Final Year

## M.E. (E &amp; TC) DIGITAL ELECTRONICS



**Aditi Patil**  
1st  
(84.2 %)  
University Rank 2

**Akshata Rakhunde**  
2nd  
(79.53 %)  
University Rank 6

**Aditi Agrawal**  
3rd  
(79.53 %)  
University Rank 7

**Mr. Kunal Kishore Pandey**  
1st  
(72 %)  
University Rank 1

**Miss. Priyanka M Shanbhag**  
2nd  
(71.4 %)  
University Rank 2

Guide: Prof. S.R.Suralkar

Guide: Dr. M.P.Deshmukh

## Third Year

## Submission of Dissertation



**Swati Mukherjee**  
1st  
(71.73 %)  
TE B

**Vaibhavdeep Sahare**  
2nd  
(68.46 %)  
TE B

**Kiran Thakur**  
3rd  
(68.2 %)  
TE B

Following students have submitted their dissertation for PG on 27th January 2014. Beneath is the details of their thesis along with their respective guides and project title

1. Mr. Pawankumar Janrao Aswar

Guide: Dr. P. H. Zope

Title: Modeling And Simulation Of Z-Source Inverter

2. Mr. Rahul Manohar Patil

Guide: Prof. S. P. Ramteke

Title: Camouflage Texture Evaluation Method Based On Weight Structure Similarity And Nature Image Feature Analysis

3. Mr. Seragi Sattyendrasing Akashsing

Guide: Dr. P. H. Zope

Title: ARM 7 based Single Phase Z-Source Inverter For Motor Drive

4. Mr. Patil Bhushan Shantaram

Guide: Mr. A.H. Karode

Title: Data Hiding In Images Using Entropy Thresholding Scheme

5. Mrs. Chaudhari Rekha L.

Guide: Prof. B.K. Khadse

Title: Skin Tone Based Steganography

6. Mrs. Patil Savita Nilkanthrao

Guide: Dr. P.H. Zope

Title: Active Power Filter For Harmonics Compensation In Single Phase Power Lines

7. Miss. Pradnya Wagh

Guide: Prof. N.M. Kazi

Title: Resource Allocation Using Load Matrix Concept For Wireless Cellular Systems

## SE A CGPA



**Lalit Zambare**  
1st  
8.61

**Ashwini Marathe**  
2nd  
8.09

**Sarita Gohil**  
1st  
8.04

## SE B CGPA

**Sonal Patil**  
1st  
8.7

**Gaurav Patil**  
2nd  
8.61

**Anjali Patil**  
3rd  
8.61

Keeping the glorious tradition of producing University rank holders unturned, this year too a few of our gems have occupied prestigious spot at top ten rankers of Final Year in the Exam April/May 2014. They are **Miss. Aditi Patil**, **Miss. Akshata Rakhunde** & **Miss. Aditi Agrawal** who have been ranked 2nd, 6th & 7th respectively at University level.

Heartiest congratulations to them on behalf of Head, faculty members and best wishes for their career.

**Faculty participation & publication in Seminar/Conferences & Workshops**

**Dr. Umesh Bhadade** had participated in Workshop on Applied Game Theory at IIT Kanpur from 20th June 2014 to 24th June 2014. **Mr. S.K. Khode** had participated in One Day National Workshop on "Advances in Materials Processing", NMU, Jalgaon on 8th March 2014. **Mr. S.K. Khode** had participated in International Conference "BLAZE-2014", Rajashri Shahu College of Engineering, Buldana and presented a title Data Acquisition System for Cotton & Banana in Khandesh Region on 13th-14th March 2014. **Mr. S.U. Nyati** had participated in UGC Sponsored National Workshop on MATLAB- Research Problem Solver at BDCOE, Sevagram Wardha on 08th-09th March 2014. **Mrs. Mayuri Tushar Deshmukh** had participated in TQUIP-I sponsored FDP on "A Hands on approach to wireless communication", C.O.E.P, E&TC department, Pune from 05th-09th May 2014. **Mr. Surendra Pandurang Ramteke** had participated as a section in Emerging trends in Computer science & Engineering at B.N. College of Engineering Pusad and presented a title Genetic Algorithm approach for Devnagri character Recognition on 07th-08th March 2014. **Mr. Atul Hiralal Karode** had published a title Digital Watermarking System using FPGA Hardware for video Authentication on 06.03.2014-07.03.2014 in International conference on Electronics and Computing Technologies (ICONECT 14). **Mr. Atul Hiralal Karode** had published a title Performance Analysis Of Various Classifier Technique Used In Handwritten Digit Recognition on 18.01.2014-19.01.2014 in International conference on Advance in Electrical & Electronics Engineering.

**Faculty publications in National/International Journals**

**Dr. Umesh S. Bhadade** had published a title Analyzing and Predicting the Green House Parameters of Crops in International Journal of Computer Applications (0975 – 8887) Volume 95– No. 15, June 2014. He had also published a title Analysis of Bandwidth Recycling in IEEE 802.16 Network Using PSA, RB-RFA & HSA in International Journal of Engineering Trends and Technology (IJETT) – Volume 12 Number 2 - Jun 2014. **Mr. Shekhar Rambhau Suralkar** had published a title "Gesture Recognition of Handwritten Digit Using Accelerometer Based Digital Pen", in International Journal of Application or Innovation in Engineering & Management (IJAEM), ISSN 2319 - 4847, Volume 3, Issue 4, April 2014. He had also published in International Journal of Application or Innovation in Engineering & Management (IJAEM) Volume 3, Issue 3, March 2014 ISSN 2319 - 4847 a title Automated Fingerprint Verification Based on Orientation Features. He had a publication in International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE) Vol. 3, Issue 3, March 2014 ISSN (Online) : 2278-1021 ISSN (Print) : 2319– 5940 a title Fingerprint verification based on the Ridgelet transform. **Dr. Manish Pandurang Deshmukh** had published a title Rotation and Translation Invariant System for Criminal Identification & Automated System for Criminal Identification in IJAEM, VOL NO 2, ISSUE NO 11041, ISSN NO 2319-4847, IMPACT FACTOR 2.379. **Mr. Atul Hiralal Karode** had published a title Gesture Recognition of Handwritten Digit Using Accelerometer Based Digital Pen in International Journal of Application or Innovation in Engineering & Management (IJAEM), Volume 3, Issue 4, April 2014, ISSN 2319 - 4847. **Mr. Surendra Pandurang Ramteke** had published a title Implementation of Weighted structure similarity and texture parameters for Camouflage Texture in IJERT Vol 3 Issue 1 Jan 2014 ISSN 2278-0181, Impact Factor: 1. **Mr. Rahul Nandkishor Deshmukh** had published in International Journal of Advanced Information Science and Technology (IJAIST) ISSN: 2319:2682 Vol.24, No.24, April 2014, page no-27-32 a title Canal Automation System using Crouzet PLC. **Mrs. Mayuri Tushar Deshmukh** had published in International Journal of Research in Advent Technology, Volume 2, Issue 1, January 2014, E-ISSN: 2321–9637, pp 78-85. a title Automatic view synthesis from stereoscopic 3d by image domain warping. **Mr. Sunil Uttamchand Nyati** had published a title on To Improve Performance of OFDM by using convolution & BCH coding in International Journal of Application or Innovation in Engineering & Management Volume No. 3 Issue 5 ISSN: 2319-4847 5 May 2014. He had published in International Journal of Global Technology Initiatives Volume 3 Issue 1 March 2014 Page No. B169-B175 a title Optimize Adaptive Coding Technique to Improve Performance of OFDM System. **Dr. P. H. Zope** had published a title ARM 7 based single phase Z-source inverter for induction motor drive and various load system on 23-25 January 2014 in AICTE sponsored international conference on emerging trends in instrumentation, communication, electrical and electronics engineering (ICE-ICEE, 2014) Indore. A few more published papers in the same Conference were "Study Of Harmonics And Comparison Of Z-Source Inverter With Traditional Inverters" & "Implementation of Active Power Filter for Minimizing Harmonics in 1  $\Phi$  Supply Lines in the same duration". Dr. Zope had also published a title Analysis and Simulation of three-phase induction motor using Clarke's transformation on 6-7 March 2014 in International conference on Electronics and Computing Technologies (ICONECT 14) at K.C College of engineering and Management and Research Thane (E).



**Smt. Pratibhatai Patil**  
**Former**  
**President of India**  
**&**  
**Dr. D. R. Shekhawat**



**Shri. Raosaheb Shekhawat**  
**Managing Trustee**



**Dr. K. S. Wani**  
**Principal**  
**SSBT's COET**



**Prof. S. R. Suralkar**  
**Director of**  
**Administration**



**Mr. S. P. Shekhawat**  
**Director of**  
**Academics**



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**H.O.D**  
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