



SSBT'S COLLEGE OF ENGINEERING AND TECHNOLOGY, BAMBHORI JALGAON

POTENTIAL

Department of Electronics & Telecommunication Engineering

Volume V, Issue II

Department Newsletter :July - Dec 2014

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 faculty members
- 2) NBA accredited for 02 years wef July 2014. Previously accredited in 2008 for 05 years
- 3) 12 Labs equipped with all state of art equipments
- 4) 2 PG & 1 UG Computer lab with latest configuration PCs
- 5) MATLAB, Xilinx, Free EDA OS Software etc.
- 6) NPTEL lectures
- 7) IETE Student forum
- 8) IEEE Student Branch
- 9) Research Lab recognized by NMU.

Mars Mission: India creates history as Mangalyaan successfully enters Mars orbit in first attempt



NEW DELHI, 24 September 2014, 08:28 A.M. IST: Creating history, ISRO's Mars Orbiter Mission (MOM) on Wednesday successfully entered the orbit of the red planet. With this, India has become the first nation in the world to have entered the Mars orbit in the first attempt. ISRO's MOM is also the cheapest such mission till now. European, US and Russian probes have managed to orbit or land on the planet, but after several attempts.

Prime Minister Narendra Modi witnessed the historic moment from ISRO's centre. "MOM has met Mangal," Prime Minister Narendra Modi said announcing the mission's success, after nerve-wracking final moments at the command centre of Indian Space Research Organisation.

After successful launch PM Modi said, "India has become the first country to enter Mars orbit on a maiden mission." "History has been created today with India reaching Mars. ISRO has joined an elite group of countries to reach Mars," he said. "It was built indigenously, in a pan-Indian effort, stretching from Bangalore to Bhubhaneshwar, and Faridabad to Rajkot."

"Our budget is even lesser than a Hollywood blockbuster. These will go down as landmarks in history," Modi added.

Editorial

The Power of Positive Thinking



Positive thinking is a mental attitude that admits into the mind thoughts, words and images that are conducive to growth, expansion and success. It is a mental attitude that expects good and favorable results. A positive mind anticipates happiness, joy, health and a successful outcome of every situation and action. Whatever the mind expects, it finds. The way that someone feels about themselves shows in the way they act. They always find funny things in everyday life that makes them and others happy. There is joy and cheerfulness that just rubs off on the people who are around them. The way they feel shows in their life because they are more relaxed and sleep better at night. They are not only physically assured but mentally as well. Most people have a spiritual connection that gives them the confident mindset in life. People who have a confident mindset take full advantage of their work force. They go in everyday with a smile on their face and the confidence that they have the ability to handle anything that comes their way. Their ability to take responsibility and not to blame others when something goes wrong shows that they have a handle on life. Negative emotions have no place with them on their way to success. Negative thoughts, words and attitude bring up negative and unhappy moods and actions. When the mind is negative, poisons are released into the blood, which cause more unhappiness and negativity. This is the way to failure, frustration and disappointment.

This behavior comes from choosing the atmosphere that one is around. It is best to surround yourself with assured people that are upbeat and thinking good thoughts. Try to avoid negative news and thinking on unpleasant things. This will be to your advantage in building the blocks in your life of thinking of good wholesome thoughts. It is always positive to think of others. Contributing in positive ways leads to an eternal happiness.



Departmental Events



Enhancement of Practical Knowledge for need of Industries

Mr.Pankaj Bande, Wipro, Bengaluru was the speaker of Two days Technical Course on Enhancement of Practical Knowledge for the need of Industries which was organized by ETESA on 12th & 13th September 2014. 160 students have participated in this useful practical oriented technical course. Mr.Bande covered a wide range of topics from the explanation of the basics of Circuit designing which is usually carried by Electronics Engineers on Bread-board. He also discussed the technical approach meant for the selection of the components and wires for the purpose of circuit simulation.

Aptitude Test & Quiz Competition



Aptitude test & Quiz competition was organized by ETESA for final year students of E & TC on 13th September 2014. The event was coordinated by **Ms.P.M.Shanbhag**. ETESA organized a technical quiz competition on the occasion of Engineers Day on 15th September 2014 for TE students. The event was coordinated by **Prof.N.M.Kazi**

Orientation Program for First Year E & TC Students



An orientation program for first year newly admitted E & TC students was conducted in E & TC Seminar hall by ETESA on 26th July 2014 by ETESA. The main aim of the program was to interact with fresher students of First year. **Dr.S.R.Suralkar(DoAd)**, **Dr.U.S.Bhadade(Head)**, **Dr.M.P.Deshmukh** graced the event by their dynamic presence. **Dr.M.Panigrahi**, Head (First Year) was also present in the event. Dr.Bhadade had focused the importance of E & TC and it's bright future scope in context of Smart City concept of Modern Indian Urbanization. **Prof.Thakare** discussed about the relevant fields of interest to which the graduates prefer for seeking career opportunities in Govt, Private and Public sector as well as he focused on the importance of research meant for the delegates of Electronics and Telecommunication Engineering. **Dr.Panigrahi** suggested students to study hard to give the nice statistics of results as concerned to University examination. **Dr.P.H.Zope** demonstrated various slides of interest useful for the sake of First year students. **Dr.M.P.Deshmukh** frankly interacted students and motivated them to excel in their Engineering venture assuring the guaranteed support of all the Faculty Members.

Teachers Day Celebration



Keeping the glorious tradition of the department, this year too ETESA has celebrated Teachers Day on 5th September 2014 in the E & TC seminar hall. The function was inaugurated with the lighting of lamp in front of Goddess Saraswati and paying tributes to Dr.Sarvapalli Radhakrishnan, a Great scholarly Legend and 2nd President of Republic of India.

Dr.S.R.Suralkar(DoAd), Dr.U.S.Bhadade(Head), Dr.M.P.Deshmukh and other faculty members have graced the occasion with their auspicious presence on the Dias.

The students have shown great respect for all the faculty members by gifting them with roses.

The Dignitaries and other faculty members motivated the students to keep moving forward by signing on the letter board with their messages. Mr.N.M.Kazi has coordinated the event.

Alumni Meet



The Alumni meet of the department was held at Sadanand Regency, Pune on **13th December 2014**. Mr.A.C.Wani was the coordinator of this event. He delivered the inaugural speech. Dr.U.S.Bhadade(Head), Dr.M.P.Deshmukh & Mr.A.H.Karode were also present at the event. The alumni have shown a good response this time and spared their precious time for the get together which was held for the first time out of Jalgaon in a Metro City like Pune. From the alumni, Mr.Prem Menon & Mr.Ashish Kulkarni have shared their views. There was an arrangement of lunch for all the Alumni and Faculty Members. The alumni were presented Gifts and feed back was taken regarding the program. Mr.A.H.Karode delivered the vote of thanks at the end of the program.

Departmental Events

IEEE Student Branch Activity



Guest Lecture on "Computer Communication Systems" was organized on 17th October 2014 at 02:30 P.M. onwards in the Seminar Hall of E & TC Department by IEEE Student Branch STB15481 COET Bambhori.

It was delivered by **Prof.Dr.A.M.Agarkar** from Shri Sant Gajanan Maharaj College of Engineering, Shegaon. He was felicitated by **Prof.Dr.U.S.Bhadade**, Head, E & TC. 80 Students of final year have attended the session and found it quite useful as it covered the basics of Networking, Protocols, TCP & IP Standards etc. The session was concluded after vote of thanks delivered by **Mr.Kunal Pandey** who was the coordinator of the event.



Students of Final Year in a round Table GD session with **Mr.Kunal Pandey** and **Mr.Rahul Deshmukh**.

Technical Workshop On "Nanoelectronics & Mechatronics"



Technical workshop on Nanoelectronics & Mechatronics was conducted by IEEE Student Branch, STB15481 on 13th & 14th September 2014 in SSBT's COET Bambhori Jalgaon Maharashtra. The Workshop was inaugurated by **Prof.N.M.Kazi** and coordinated by **Mr.S.K.Khode**. The speaker for the two days long workshop was **Mr.Kunal Pandey**, Assistant Professor, E & TC Engineering Department & IEEE Student Branch Coordinator. He has covered a wide variety of topics regarding Nanotechnology & NanoElectronics. On the first day of the workshop, he discussed concepts about Quantum Mechanics, Principle of Duality, Ballistic nature of Electrons Nanoelectronics Materials like SET, ZnO Nanobots, carbon Nanotubes, Application of Nanoelectronics devices etc. On the second day, a variety of topics from the field of Mechatronics such as application area of Mechatronics, Robotics, Sensors and actuators etc were discussed. 60 students from SE and TE have attended the session.

Group Discussion

Group discussion for final year undergraduates was conducted by IEEE student Branch on 22nd September 2014. **Dr. U.S.Bhadade**, Professor & Head E & TC Department, Senior IEEE member chaired the event. Dr. Bhadade laid the importance of Group discussions in the practical scenario and he gave an idea to students why it has become an important parameter to judge the students in various campus hiring interviews. **Mr.Kunal Pandey**, IEEE Student Branch coordinator & **Mr.Rahul N Deshmukh**, Training & Placement Coordinator guided the students with the useful tips required for successful conversations.

The students carried discussion of variety of topics like Cultural comparisons of Northern & Southern India, Recent innovations in the field of Communication Technologies etc.

Technical Course On "PLC Programming" by IETE Student Forum



Mr.Rahul N. Deshmukh conducted a two days technical course on PLC programming in which 80 students of TE have participated on 30th & 31st August 2014. He demonstrated the practical facts of Automation widely used in industries now-a-days. He used visual aids and interactive techniques to make the session quite useful and practical oriented.

'एसएसबीटी'त

पीएलसी कार्यशाळा

जळगाव । बांधोरी येथील एसएसबीटी महाविद्यालयात 'पीएलसी'च्या

कार्यपद्धतीवर ई. अण्ड. टी. सी. विभागातर्फे कार्यशाळा झाली. प्रा. राहुल देशमुख यांनी 'पीएलसी'वर आचारित

स्वयंचलित उपकरणे व औद्योगिक क्षेत्रात पीएलसीचे महत्त्व. तसेच पीएलसीसोबत वापरत येणारे सेन्सर, वॉल्व्ह, कॉइल याबाबत माहिती दिली. तर दुसऱ्या दिवशी आयोजित सत्रात स्वयंचलित मॉडलसह प्रात्यक्षिक करून दाखवले. कार्यशाळाचा वृ. एस. भदादे, प्रा. एस. आर. सुरळकर, प्रा. वाय. एस. संतखाणी यांचे सहकार्य लाभले.

The news was published in Sakal, the Daily Marathi News Paper.

Industrial Visits

Bhusawal Thermal Power Station 210MW, Bhusawal



A total of 60 students of TE A & TE B had visited BTPS, Bhusawal on 13th October 2014. **Mr.Rahul Deshmukh** was the trip coordinator. **Mr.Sunil U Nyati** accompanied the students. They reached the travel destination at 10 A.M.

Mr. S.N.Patil & Mr.Ali demonstrated a number of useful things related to the thermal power plant. Students were presented the working idea about Coal loading & unloading process from railway wagon, conveyor system, coal crushing, ash disposal, steam turbine, generator, Distributed control systems, Supervisory control and data acquisition system, plant parameter maintenance, Pressure transducers, valves etc.

The trip was quite useful for all the students as they have been instructed the basics of relevant field and also new techniques used now-a-days for making the whole system more efficient.

Jain Irrigation Systems



An industrial trip for Second year A & B division students was held on 13th September 2014 in Jain Irrigation Systems, Shirsholi Road Jalgaon. The trip was successfully coordinated by **Mr.Rahul Deshmukh** and **Ms.Akshada Sapkal**. During the trip, the students were demonstrated the working of Solar power Plant, Photovoltaic Cell and related aspects. The trip was quite useful for the students in learning the basics of semiconductor technology and applications.

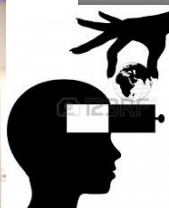
Fresher's Party "Blooming Fresto"



ETESA has organized Fresher's Party for SE(E & TC) students, Blooming Fresto at Computer Department seminar hall on 26th September 2014. Dr.S.R.Suralkar(DoAd), Dr.U.S.Bhadade(Head), Dr.M.P.Deshmukh, Dr.P.J.Shah, Mr.V.M.Deshmukh, Mr.P.V.Thakare inaugurated the event. The students of third year gave a memorable talent hunt in front of the freshers and also interacted with them in friendly way. A few activities were conducted to select Mr. & Miss. Fresher. A lunch was organized for all the faculty members and students at the new canteen nearby the entrance gate.

Mr.Akshay Khairkar(SE A) and **Miss.Yamini Kolhe(SE B)** were selected Mr & Miss Fresher.

Words of Wisdom



"You can do anything and everything without even the guidance of anyone. All power is there. Stand up and express the divinity within you."

Swami Vivekanand

Students Activities

Students awarded in various events

Ms.Nikita Mahajan, Ms.Neha Nagote, Ms.Prajakta Narkhede & Ms.Charulata Patil bagged 2nd Prize in **Robotrust 2K15** organized by **RoboSapiens Technology Pvt Ltd** in association with **IIT Delhi** held at SSBT's COET Bambhori in the month of August 2014.

Mr. Prashant Singh bagged 3rd Prize in the event. All the students belong to second Year 'B' division.

In the event **RGITRPCS14** held at GHRIEM Jalgaon on 26th & 27th September 2014, **Ms.Shruti Dusane, Mr.Mayur Patil, Mr.Shubham Mahajan, Mr.Ajay Visave, Mr.Akshay Burujwale** won 1st prize in Paper presentation whereas **Mr.Taral Bhole** of Final Year won 2nd prize in the same event.

Mr.Kishor Beldar occupied 1st rank in Poster Presentation.

In the event **Techkrunch2K14** held at GHRIEM Jalgaon on 27th & 28th September 2014, **Mr.Akash Thakur & Mr.Ajay Sonawane** of Final year won 3rd Prize in the Poster Presentation Competition.



Standing from the Left Hand Side: 1. Mr.Parag Agrawal 2. Mr. Ishrat Shaikh 3. Ms.Nishigandha Jadhav 4. Ms.Sonali Kirpal 5. Ms.Kiran Thakur 6. Mr.Ajay Sonawane. 7. Mr.Rahul N Deshmukh at Centre (T & P Coordinator) 8. Mr.Bhushan Chauhan 9. Ms.Renuka Deshpande 10. Ms.Savita Chaudhari 11. Ms. Priyanka Taparia 12. Ms. Kranti Nikam 13. Ms. Swati Mukherjee

Campus selection



L&T Infotech

L & T InfoTech visited the college premises on 10th & 11th December 2014 for Campus Placement. This time our students performed well and secured their future with the reputed MNC. A total of 13 students were selected in the Campus session out of which 12 students are pursuing there Final year in the current academic year 2014-15.



Ms. Aditi P Patil, graduated in the year 2013-14 was also selected in L & T Info Tech.

On behalf of Head and other faculty members, we convey them heartiest congratulations and best wishes for a dignifying career.



Ms. Swati Mukherjee was placed in the Campus Drive of HP on 12th & 13th Oct. 2014 (Sunday & Monday) at Pimpri Chinchwad College of Engineering (PCCOE), Pune. This campus was meant for shorting out Software Developer as well as the eligible hands to meet the Testing Role. She was also placed in the campus drive of L & T InfoTech which came on 10th & 11th December 2014 in the premises of COET.

Congratulations! for achieving such a glorious feat in her career.

UG Section

PG Section

Result at Glance

Submission of Dissertation

Final Year



Swati Mukherjee
1st
(72.93 %)
BE B



Vaibhavdeep Sahare
2nd
(70.66 %)
BE B



Nishigandha Jadhav
3rd
(67.73 %)
BE B

Third Year CGPA



Sonal Patil
1st
9.22
TE B



Komal Badhe
2nd
8.96
TE A



Aishwarya P.
3rd
8.83
TE B



Sayali Patil
3rd
8.83
TE B

Second Year CGPA



Gayatri B
1st
8.9
SE B



Prajakta N
1st
8.7
SE B



Priyanka M
1st
8.61
SE A



Chetan C
1st
8.61
SE A

PG Toppers



1st Topper
Ms. Priti Asolkar



2nd Topper
Mr. Kaushal Pandey

Title: Microcontroller based GSM approach for the monitoring and controlling of Green House Environment System.

Guide: Dr. U.S. Bhadade
Professor & Head
E & TC Department

Title: Analysis of Induction-Motor for fault finding using modeling and simulation.

Guide: Dr. P.H. Zope

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

1. Mr. Rahul Nandkishor Deshmukh

Guide: Dr. M.P. Deshmukh

Title: Automization Of Canal Control System

2. Mr. Dheeraj Rajendra Pongallu

Guide: Prof. S.R. Suralkar

Title: Automatic Multivariate Liquid Filling System And Conveor Control Using PLC And SCADA

3. Ms. Bhagyashree D Hatwar

Guide: Prof. A.C. Wani

Title: Wireless Oscilloscope Powered By Android

4. Mr. Yogesh Shankarlal Santwani

Guide: Prof. S.R. Suralkar

Title: Design And Simulation Of Patch Antenna

5. Mrs. Jadhav Vandana Lotan

Guide: Prof. V. M. Deshmukh

Title: Modeling And Analysis Of PF And THD For Power Electronic Converter

6. Ms. Shukla Tejashree Ratnakar

Guide: Dr. P.J. Shah

Title: FPGA Based Digital PWM Converter For Inverter

7. Mr. Jeevanesh J. Chavathe

Guide: Prof. P.V. Thakre

Title: Implementation Of Speech Operated System Using TMS320C6713 Digital Signal Processor

8. Mr. Harshal Kamalaskar

Guide: Dr. P. H. Zope

Title: Android Based Irrigation System

9. Mr. Rahul K Badgujar

Guide: Dr. M.P. Deshmukh

Title: Filling - In Of Missing Images Blocks In Wireless Transmission

Words of Wisdom



*"Coming together is a beginning;
keeping together is progress;
working together is success."*

Henry Ford

Faculty Research Publication

The recognition of handwritten Devanagari character recognition is a vital research area in the domain of pattern recognition. Various approaches have been involved in the past decades and intensive research is still being carried out at present. Devanagari is an Indo Aryan language spoken by about 71 million people mainly in the Maharashtra, state of India. This book presents a comprehensive study on handwritten Devanagari character recognition. The proposed work based on hybrid feature extraction techniques which includes Moment invariant, affine moment invariant techniques and combination of both i.e. MI & AMI along with Box method and various morphological operations. Extracted feature from each sample proceed for classification using Fuzzy logic. The proposed techniques are independent of size, slant, orientation, translation & other variation in Devanagari handwritten character. This book may be very useful for researcher & academician working in the domain of handwritten character recognition.



Surendra Ramteke
Nilima Patil

A Fuzzy Approach To Handwritten Devanagari Character Recognition

Single Stage, Multistage & Hybride Feature Extraction
Techniques

Surendra Ramteke received his BE & ME Degree from Sant Gadgebaba University, Amravati (MS) INDIA in 2002 & 2010. He is pursuing Ph.D. degree in Electronics Engg. from North Maharashtra University, Jalgaon. He is life member of ISTE. His research interest is in the domain of pattern recognition. Currently working as Asst. Prof in E&T Dept. at SSBTCOET Jalgaon.



978-3-659-64575-4



Prof. S P Ramteke, Assistant Professor, E & TC Dept & **Ms. Nilima Patil**, Assistant Professor, Computer Engg dept. have published a book with the title "A Fuzzy Approach to Handwritten Devanagari Character Recognition" in Lombard Academic Publication, Germany with the ISBN no. 978-3-659-64575-4.

Congratulations on behalf on all the faculty members of E & TC Dept.

Faculty participation & publication in Seminar/Conferences & Workshops

Dr. U.S. Bhadade has published a paper entitled "An overview of Spoken Language Identification using Visual Cues from Speech" in Cybertimes International Journal of Technology & Management, Vol.7, Issue. 2, September 2014. pp 218-225 in an International conference on Global trends in Engineering Technology and Management (ICGTETM 2015), held at SSBT's COET Bambhori Jalgaon on 9th Jan to 11th January 2015. **Dr. M.P. Deshmukh & Mr. R.N. Deshmukh** has published a paper entitled "Automated control system of a dam and monitoring for irrigation" in Cybertimes International Journal of Technology & Management, Vol.7, Issue. 2, September 2014. pp 212-217 in International conference on Global trends in Engineering Technology and Management (ICGTETM 2015) held at SSBT's COET Bambhori Jalgaon on 9th Jan to 11th January 2015. **Prof. P.V. Thakre** has published a paper entitled "Speech recognition using MFCC feature extraction with MATLAB approach" in Cybertimes International Journal of Technology & Management, Vol.7, Issue. 2, September 2014. pp 337-344 in International conference on Global trends in Engineering Technology and Management (ICGTETM 2015) held at SSBT's COET Bambhori Jalgaon on 9th Jan to 11th January 2015. In the same conference, **Dr. P.H. Zope** has published a paper entitled "A review of various soil moisture measurement technique" in Cybertimes International Journal of Technology & Management, Vol.7, Issue. 2, September 2014. Also **Prof. A.H. Karode** has published a title "Review on Microstrip antenna" in Cybertimes International Journal of Technology & Management, Vol.7, Issue.2, September 2014 pp 234-239. **Dr. P J Shah** has participated in TQUIP-II sponsored STTP on "Implementation of Power Electronics Systems" at SVNIT, Surat from 29th December 2014 to 02nd January 2015.

Faculty publications in National/International Journals

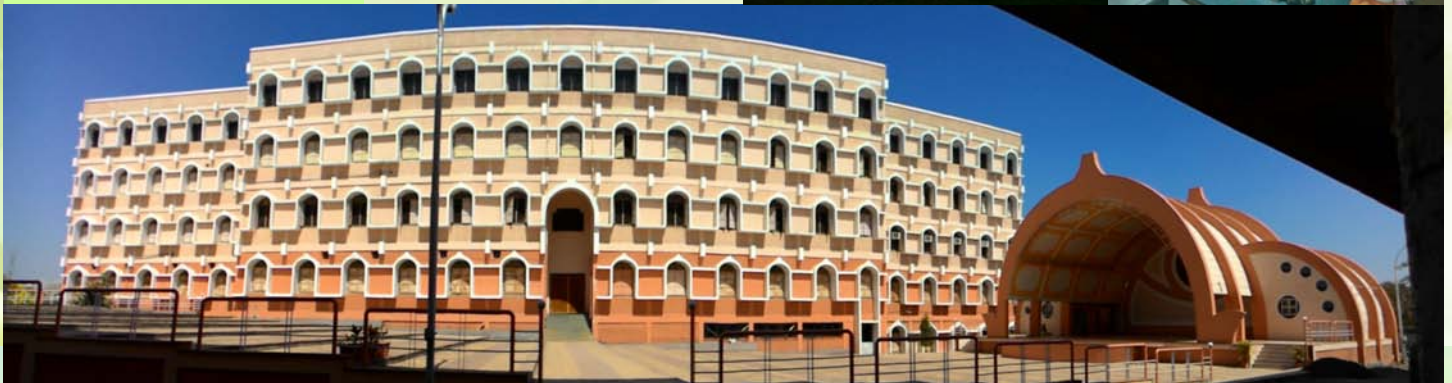
Dr U S Bhadade has published a paper entitled "Image Resolution Enhancement Based On DWT And SWT" in International Journal of Multidisciplinary Research & Advances in Engg (IJMRAE), Vol. 6, No. III ISSN 0975-7074, (July 2014), pp. 153-174. **Dr S R Suralkar** has published a paper entitled "Automatic Multivariate Liquid Filling System and Conveyer Control using PLC and SCADA" in International Journal of Emerging Technologies and Advanced Engineering (IJETA), Vol.4, Issue 11, PP NO. 01-04, ISSN: 2250-2459, pp 1-4, Nov.2014. **Dr S R Suralkar & Mr.Y.S.Santwani** has also published a paper entitled "Bandwidth enhanced hexagonal patch antenna using CPW fed" in International Journal of Engineering Research & Technology (IJERA), Vol.3, Issue.11, pp.no. 1310-1312, ISSN: 2278-0181, Nov.2014. **Dr.P.H.Zope** has published a paper entitled "Image inpainting" in International Journal of Engineering research and Applications (IJERA), Vol.4, Issue.9, Version.2, September 2014, pp. no. 21-27, ISSN: 2248-9622 pp 247-253. **Prof. A. H Karode & Mr. Kunal Pandey** has published a paper entitled "A Review on texture image classification using different methods" in International Journal of Advanced Research in Computer Engineering and Technology (IJARCET), Vol.3, Issue-12, pp 4103-4105, ISSN -2278-1323, December 2014.



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Former
President of India
&
Dr. D. R. Shekhawat
Chairman, GB



Shri. Raosaheb Shekhawat
Managing Trustee



Dr. K. S. Wani
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SSBT's COET



Dr. S. R. Suralkar
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