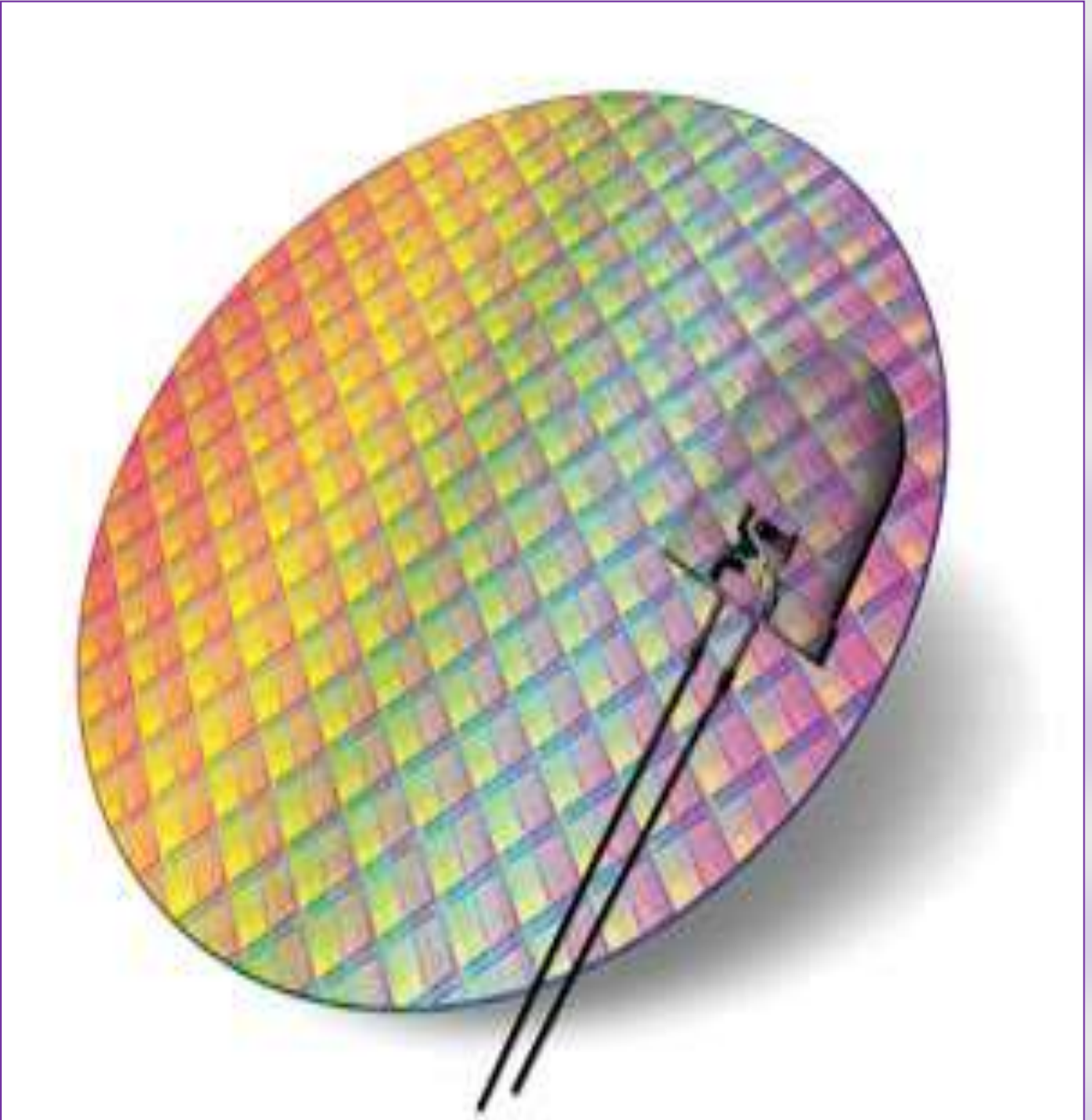




# SILICON TODAY

*The secret of getting ahead is getting started.*

March 2017



**“Greater design inspiration comes suddenly if you work long enough”**

**MARCH 2017**

# “SILICON TODAY”



“The rain drop from the sky: If it is caught in hands, it is pure enough for drinking. If it falls in a gutter, its value drops so much that it can't be used even for washing the feet. If it falls on hot surface, it perishes. If it falls on lotus leaf, it shines like a pearl and finally, if it falls on oyster, it becomes a pearl. The drop is same, but its existence & worth depend on with whom it associates.”

- Swami Vivekananda

Good things remain good only because they are always scarce. I am glad to pen for this wonderful magazine as an appreciation of the commendable efforts put forth by the team. I have great pleasure in conveying my best wishes to the Department of Electronics Engineering for releasing the technical magazine “silicon today” which brings the students and teachers of electronics discipline on a common platform to share and display their ideas and creative talents.

I convey my best wishes to all the students for their success and bright career.

KavitaTewari  
HOD  
ETRX department

# Vision & Mission



## Vision

To equip our students with the latest technology and implement their ideas to conduct research in selected areas of excellence within traditional disciplines technologically important and relevant to the region and development of nation.

## Mission

The department is committed to produce technocrats ready to handle the state-of-art technologies in the field of electronics engineering.

## EDITORIAL TEAM

### **STAFF**

Mrs. Sonali Kalbande (Asst.Professor)

Mr. Ravi Kant Gupta (Asst.Professor)

### **STUDENT**

Gaurav Mahajan (D11A)

## Research Proposal of Electronics Engineering Department Approved & Sanctioned by ISRO under MARS ORBITER MISSION – AN OPPORTUNITY (MOM-AO)



Heartiest congratulations to Prof. Abhijit Shete, Prof. Parmeshwar Birajdar and Prof. Yogesh Pandit, Department of Electronics, VESIT for the research proposal being approved by the Indian Space Research Organization (ISRO). The research proposal was submitted under MOM – AO.

The Indian Space Research Organization (ISRO), Department of Space (DOS), Government of India announced an opportunity to carry out scientific research using the data from Mars Orbiter Mission. MOM is ISRO's first interplanetary space probe dedicated for Mars research.

The proposed research work by the team is related to surface geology, composition and morphology of Mars, by utilizing the data captured by the onboard sensors. In addition, the Mars Orbiter Laser Altimeter (MOLA) database of NASA will also be utilized in this research work. The research will be carried out during the next three years. Funding for this research project is sanctioned by ISRO.



## **FACULTY DEVELOPMENT PROGRAM(FDP) ON EPNCVII**

All the staff members from Electronics Department attended one week Faculty Development program from 4th to 11th Jan 2017. The FDP was co-ordinated by Mrs. Asawari Dudwadkar.

1. Topic: Theory session on Introduction to Network Security  
Resource Person: Dr.Rajani Mangala
2. Topic: Demo on NTOP & ZEN Map Advance network tools  
Resource Person: Mrs. Rupali Patil
3. Topic: Theory session Introduction on Low Power RISC Devices  
Resource Person: Mrs. Asawari Dudwadkar
4. Topic: Embedded cortex Kits Demo  
Resource Person: Mr. Chintan (Edutech Technology,Baroda)
5. Topic: Theory session on Statistics for communication  
Resource Person: Mrs. Naveeta Kant
6. Topic: Industrial visit to Adtron Technologies Ltd.  
Resource Person: Mr. Mandar Joshi from Adtron
7. Topic: Demo on Electrical Machines  
Resource Person: Ms. Rakhi Jadhav
8. Topic: Demo Power Electronics kits : Speed control of Induction motor  
Resource Person: Mrs. Gauri Sahoo
9. Topic: Demo Session on CVLSI Exp to plot IV Characteristics on Virtuso tool  
Resource Person: Mrs. Amrita Jhaveri
10. Topic: Demo of Advance Instruments.  
Resource Person: Aplab Technology



## STUDENT ACTIVITIES: INDUSTRIAL VISIT

### **INDUSTRY 1 - Cosmic Engineering Enterprises**

It was a PCB manufacturing industry which was situated in Electronic Complex, Ecil X Road, Kushaiguda, and Hyderabad. It was a well-equipped industry with all necessary machines and man power. They manufactured both single sided and double sided pcb.

### **INDUSTRY 2 – Servomax India Pvt. Ltd.**

Servomax is a company that has manufactured 18 different types of products. Majorly the company manufactures 3 phase stabilizers and isolation transformers. Servomax concentrates on manufacture of stepper based stabilisers.



## Achievements



Rohit Kashyap student of Third Year Participated in National Level NIYANTRA 2016 under guidance of Mr. Abhijit Shete on project SAPER and won second prize at National level 19<sup>th</sup> October 2016.

## Seminars and projects

- Seminars/Workshops/:Conducted a Two day workshop on “Arduino and Basic Embedded Systems” for second and Third Year students
- Internships/Research Experience: about 40 students done Internship in various companies like Doordarshan, L&T , BARC etc

## Department Rankers

- Sharvil Panandikar secured first rank in final Year Electronics Department (2015-16) with CGPA 9.29.
- Anisha Das secured second rank in final Year Electronics Department (2015-16) with CGPA 9.14.
- Sushmita Manohar secured third rank in final Year Electronics Department (2015-16) with CGPA 9.12.

## Faculty Achievements

### ➤ Publications

1. P. Birajdar, et.al. “A Novel Iris Recognition Technique Using Monogenic Wavelet Phase Encoding”. International Conference on Signal and Information Processing (IConSIP-2016), 6-8 Oct 2016. He also won the **Best paper Award** for this.
2. P. Birajdar, et.al. “Touch-Less Finger photo Feature Extraction, Analysis and Matching using Monogenic Wavelets”. International Conference on Signal and Information Processing (IConSIP-2016), 6-8 Oct 2016.
3. P. Birajdar, “Enhancement of latent fingerprints on banknotes using monogenic wavelets”. International Conference on Signal Processing and Communication (SPCOM-2016), 12-15 June 2016.
4. Jaymala Adsul, Dr. P.P. Vaidya & Dr. J.M. Nair, “A new method of reconfigurable ADC using calibrated programmable slops”, IEEE International. conference on Communication & Electronics Systems. (ICCES 2016), 21-22 Oct 2016.
5. Dr. (Mrs.) Rajani Mangala, Karthik Chaganty, Tanmay Karadkar and, “Traffic Signal Preemption for Emergency Vehicles” IAEME April 2016.
6. Naveeta Kant, “An automated Method for counting Red blood Cells Using Image processing “, IJAREEIE, April 2016.
7. Abhishek Chaudhari, Riya Jajoo, Divya Upalekar, Jaydeep Lilaramani, Ritu Kukreja, "A Research On Intellingent Transportation Systems Worldwide", IJAERD, Volume 3 Issue ISSN-2348-6406, November 2016

8. Yogesh Pandit at. Al. "IOT Based System For Medical Agricultural Practices" IJAREEIE June 2016 ISSN 2278-8875
9. Mrs. Anushree Prabhu published a Research paper titled "Sensor and Vision Fusion for Virtual Reality" in IJAREEIE, Vol 5, Issue 4, April 2016.
10. Mrs. Anushree Prabhu published a Research paper titled "Smart Electronic Toll Collection System." In IJAREEIE, Vol 5, Issue 3, March 2016.
11. Mrs. Asawari Dudwadkar published a Research paper titled "Series Load Resonant Convertor for Induction Heating Application" WEFER in International Conference in Pune on 25th December 2016.

➤ **Conference / Seminar attended**

- Mr. P. Birajdar attended International Conference on SIP- October 2016.
- Mr. P. Birajdar attended International Conference on SPCOM- June 2016.
- Mrs. Jayamala Adsul attended IEEE International conference on Communication & Electronics Systems, 21-22 Oct 2016.

➤ **Workshop conducted / attended**

- Mr. Abhishek Chaudhari attended workshop on IPR arranged by University of Mumbai 5<sup>th</sup> September 2016.
- All the staff members from Electronics Department attended one week Faculty Development program January 2017.



## SEL (Skill Enhancement Lecture)

SELs were arranged by the department to bridge the gap between the institute and industry. Experts were invited from industries and R&D fields to enlighten the students about how industrial work is actually undertaken. Following is a list of such lectures organized

<b>Sr. No</b>	<b>SEL title</b>	<b>Resource person</b>
1	Some Important Concepts in Electromagnetic	Dr.S.V.Kulkarni (IITB)
2	IOT & How to Start-Up	Mr. Anuragh Chugh
3	Transducer & its Application	Mr.Omprakash Barure

## LBS (Looking beyond syllabus)

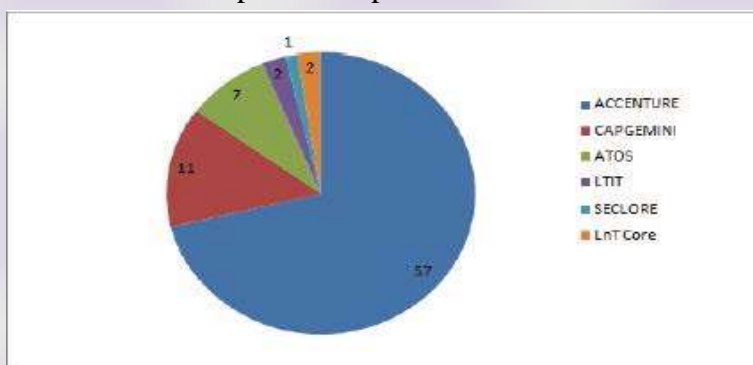
LBS was launched in the year 2011 with an aim to expose the students to emerging technologies and opportunities to work as teams on multidisciplinary projects under the mentorship of a faculty member assigned to them.

The main objective of Looking beyond Syllabus of technical education is to infuse in prospective technocrats the ability to apply basic science and experimentation skills to understand problems in the industry, academia and humanity at large and be able to develop practical solutions to them by establishing themselves as wholesome professionals in the field of Technology. Here are some details of the students from the department who undertook a LBS project are as follows.

<b>Sr. No</b>	<b>Name of project</b>	<b>Name of student</b>
1	College Recommendation System	Nehal J, Sanjana M, Shamli S, Darshana M
2	Water Loss Detection	Mridul K, Dhaval P, Apeksha, Dnyanal B

## PLACEMENTS

The department also saw a healthy placement record during this academic year. Total 89 Student were placed into various reputed companies.

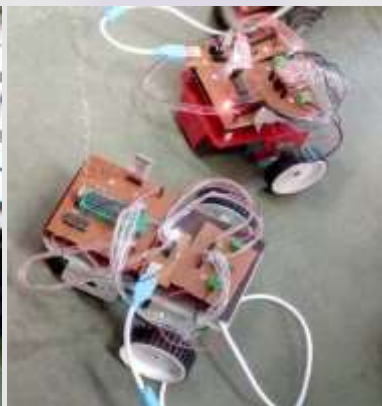


## TECHNOLOGY DAY

The Technology Day was celebrated on 20th March 2017(Monday). In the department of Electronics Engineering (VESIT), a project exhibition was organized

The expert lecture on “IoT technologies and its impact on Indian Industry (and careers)” was given by Mr.Prasad Ravekar, Siemens Ltd & Mr. Praveen Vaidya, B& R Industrial Automation. It was received very well by our students. Following are some of the best projects which are displayed in “project exhibition”

1. Biometric Voting Machine:
2. ASIA - Aerial Serving System Integrated with Android
3. DMAS - Digital Manipulator of Analog Signals
4. Vesit Library Andoird App
5. Rescue Assistant Inspection and Detection Rover



## ARTS



**Srushti Karangale (D6A)**



**Rutuja Patil (D6A)**