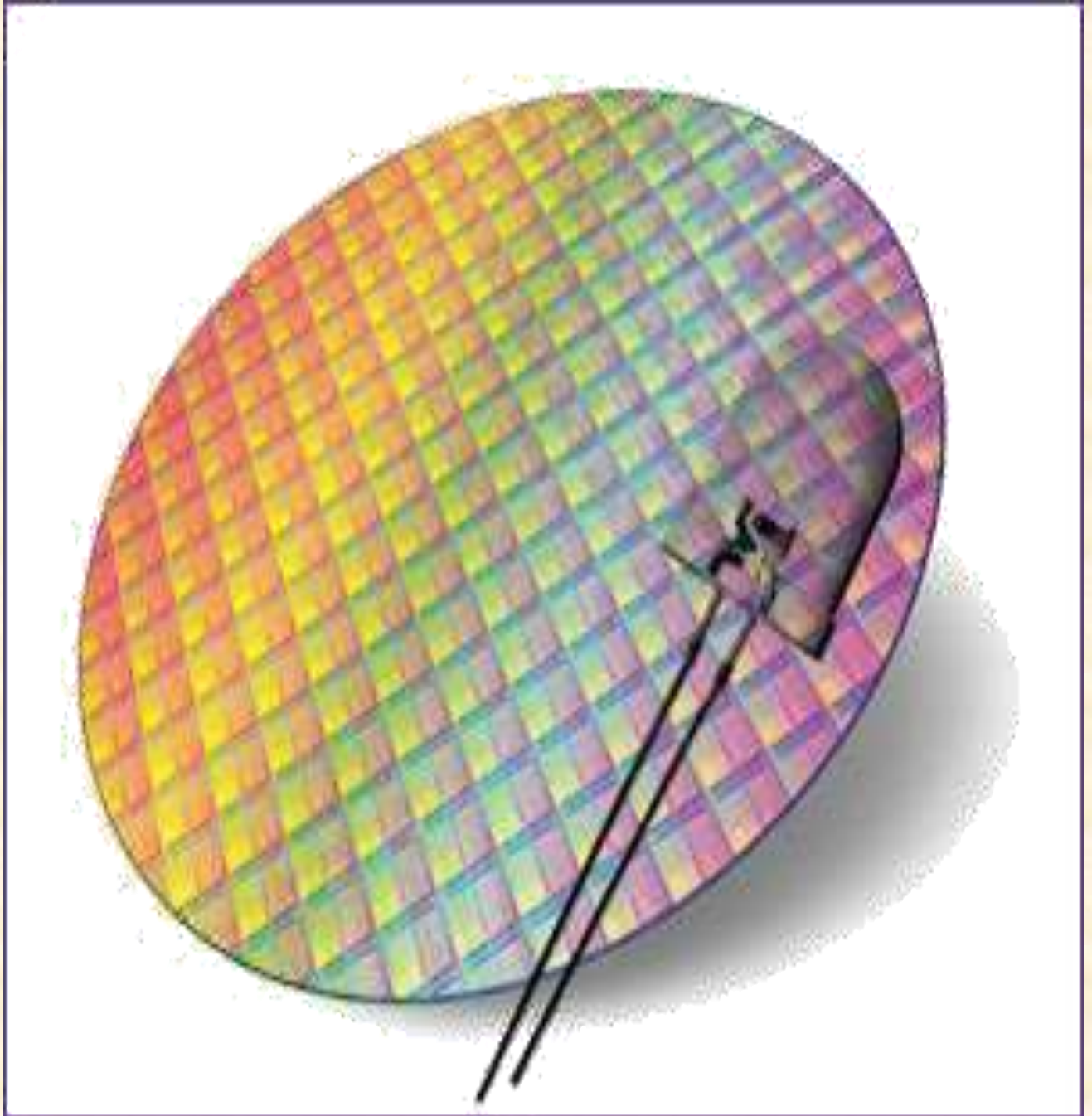


SILICON TODAY

The secret of getting ahead is getting started.

October 2017



Purity, patience and perseverance are the three essentials keys to success

“SILICON TODAY”



“Desire, when it stems from the heart and spirit, when it is pure and intense, possesses awesome electromagnetic energy. This energy is released into the ether each night, as the mind falls into the sleep state. Each morning it returns to the conscious state reinforced with the cosmic currents. That which has been imaged will surely and certainly be manifested. You can rely, young man, upon this ageless promise as surely as you can rely upon the eternally unbroken promise of sunrise... and of spring.”

“Difficulties in your life do not come to destroy you, but to help you realize your hidden potential and power, let difficulties know that you too are difficult. Be active! Take on responsibility! Work for the things you believe in. If you do not, you are surrendering your fate to others.”

- Dr. APJ Abdul Kalam

Empower yourself with the Wings of Knowledge and Power of Innovation and with this empowerment imbibe an attitude akin to a positive and proactive thinking and excel in your chosen domain of activity throughout your lifetime.

Kavita Tewari
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

Mrs. Sonali Kalbande (Asst. Professor)
Mr. Joshua Michael (Asst. Professor)



Arise! Awake! And stop not until the goal is reached.



Heartiest congratulations to ETRX Team for participation in the Mars Orbiter Mission (MOM) Science Meet, ISRO Bangalore.

On the occasion of MOM completing three years, the Indian Space Research Organization (ISRO) conducted a 'MOM Science Meet' on September 25, 2017. A team of three faculty Abhijit Shete, Parmeshwar Birajdar & Yogesh Pandit from Electronics Engineering Department, VESIT, have successfully presented their findings during this science meet. Their Research is related to the Surface Geology, and the Composition and Morphology of Mars, by acquiring data captured by the on board sensors.



“Fill the brain with high thoughts, highest ideals, place them day and night before you, and out of that will come great work.”



FACULTY ACHIEVEMENTS

+ Workshops and seminars conducted/Attended

- A team of three faculty Mr. Abhijit Shete, Mr. Parmeshwar Birajdar & Mr. Yogesh Pandit have successfully presented their findings during the Mars Orbiter Mission (MOM) Science meet on September 25, 2017. In this event, twenty nine MOM-AO research teams within the country have also presented their science outcomes.
- Mrs. Dipti Karani delivered a talk and demo on "Getting Started with SEQUEL SIMULATOR" under Research forum on 4th August 2017.
- Mr. Abhay Kshirsagar delivered a talk "WBAN - An Application of WSN" under Research forum on 14th July 2017.
- Dr. T. Rajani Mangala delivered a talk on "Funding Agencies for R and D for Academic Institutes" under Research forum on 13th July 2017.
- Mr. Abhay Kshirsagar delivered session on "Application of Embedded System" during Short Term Training Program in SAK Engineering College dated 3rd July 2017.
- Mr. Parmeshwar Birajdar delivered lecture on the topic "Applications of biometrics and research challenges" during Faculty Development Program on 29th July 2017 at SAK Engineering College dated 3rd July 2017.
- Mr. Parmeshwar Birajdar presented "Touchless fingerprint recognition system" at national centre of internal security (NCETIS) at IIT Bombay on 7/10/2017.

"Take Risks in Your Life If you Win, U Can Lead! If You Lose, You can Guide!"



- Mrs. Dipti Karani has participated in the event “Remote Sensing and GIS in Rural Agricultural System” on 22nd and 23rd September 2017 at Don Bosco Institute of Technology.
- Nine faculty from Electronics department attended one week Short Term Training Program on “Role of Mathematics and statistics in engineering.” From 3rd July 2017 to 8th July 2017.
- Four faculty attended one week Short Term Training Program on “Wavelets and Machine Learning” From 3rd July 2017 to 8th July 2017.
- Mrs. Dipti Karani completed One week Faculty development program on “Enhancement Analytical Skills in Basic Electronics” at Vidyalankar Institute of Technology from 27th June to 2nd July 2017.
- Mr. Abhijit Shete and Mr. Abhishek Chaudhari guided students in summer internship program in May-June 2017.

“Talk to yourself at least once in a Day. Otherwise you may miss a meeting with an EXCELLENT person in this World...”



✚ Talk and demo on “Getting Started with SEQUEL SIMULATOR”

It was organized on 4th August 2017 by Mrs. Dipti Karani. Simulating a circuit behavior before actually building it provides great insight into the behavior of actual circuit and saves time and money. It is a verification tool which provides a GUI for Schematic entry and plotting. It is useful for teaching Engineering courses like BEEE, ECD, Digital Electronics, and Analog Electronics.

✚ Hands-on training on CADENCE software

Two day hands-on training on CADENCE software was organized on 7th and 8th September 2017. The training was conducted by Mr. Sharath Kanth, Sr. Application Engineer–Cadence Entuple Technologies, Hyderabad. It includes installation of Cadence tools ,schematic capture, analog simulations, Layout extraction, Physical Verification and Post-Layout Simulation and ASIC design Tools following with RTL design, functional simulations, synthesis, Physical design, Physical Verification and Post-Layout Simulation.



“As long as we require someone else to make us happy, we are slaves.”



PUBLICATIONS

- Mrs. Kavita Tewari & Mrs. Rupali Patil published paper on "Analysis of Image enhancement techniques." in IJRITCC, March 2017
- Mrs. Naveeta Kant published paper on "GSM & Electro-pneumatic based Security system for prison Inmate Escape Prevention", in IJAREEIE , August 2017
- Dr. (Mrs.) Rajani Mangala, Karthik and Tanmay published paper titled "Traffic Signal Preemption for Emergency Vehicles" in IAEME.
- Mr. Parmeshwar Birajdar presented paper on "Touch-Less Finger photo Feature Extraction, Analysis and Matching using Monogenic Wavelets" in International conference on Signal and Information Processing
- Mrs. Asawari Dudwadkar published a paper on "Crack and Obstacle Surveillance Using Wireless Technology." in IJIRSET, April 2017
- Mrs. Jaymala Adsul, Dr. P. P. Vaidya & Dr. J. M. Nair published a paper on "A new method of reconfigurable ADC using calibrated programmable slopes" at the International Conference on Communication and Electronics Systems (ICCES) at Coimbatore, India, 21-22 Oct. 2016.
- Mr. Yogesh Pandit et al. "IOT Based System for Medical Agricultural Practices" in IJAREEIE, June 2016.
- *Mrs. Sarika Kuhikar published paper on "Automated horticultural system." in IJCESR, April 2017*
- Mrs. Gauri Sahoo published paper on "Power factor correction using SCR and Microcontroller." in IJIRSET, April 2017
- Mrs. Amrita Jhaveri published a paper on 'GPS Based Speed Limit and Toll Collection', International Journal of Advanced Research In Electrical, Electronics and Instrumentation Engineering

"We are what are thoughts have made us; so take care about what you think."



- Mrs. Rakhi Jadhav published paper on " Microcontroller based data glove to aid speech impaired." in IJIRCCE, March 2017
- Mrs. Dipti Karani presented a paper on "Biometric Security based Vehicular Safety System" in IJIR , 2017
- Mr. Abhishek Chaudhari published a paper titled "Research On Intelligent Transportation Systems Worldwide" in IJAERD, Nov 2016
- Mrs. Anushree Prabhu published a paper titled " Sensor & vision Fusion for Virtual Reality" in IJAREEIE , April 2016

STUDENT ACTIVITIES

- More than 50 students from third and final year completed Internship/ Industrial training in various companies such as BARC, HPCL, Godrej, Indian railways, etc during summer vacation.
- Students were part of organizing teams of various events held in VESIT during Praxis-2017 on the 22nd and 23rd September 2017.
- More than 100 students from Department of electronics participated in various technical event Praxis 2017.
- **18 students are pursuing higher studies at Reputed International Universities.**

✚ Spoken Tutorial

It is an initiative of national mission on education through ICT, MHRD, Govt. of India, to promote IT literacy through open source software

In corporation with this we have chosen four software as follows:

- 91 Students got certified in "C".
- 48 Students got certified in "CPP".
- 60 Students got certified in "Java".
- 38 students got certified in "python"

"The power of concentration is the only key to the treasure-house of knowledge."



✚ PROJECT SKILL DEVELOPMENT WORKSHOP

The Workshop was organized between 10th and 15th July 2017.

- Mrs. Dipti Karani introduced the students to a new circuit simulation software “SEQUEL” along with hands-on.
- Mr. Chandrasekhar Javale elaborated on “EAGLE simulation software” and different components available within the design suite.
- Mr. Abhishek Chaudhari focused on the microcontroller family ATMEL and PROTEUS software.
- Mrs. Sarika Kuhikar introduced the students to Power Electronics with MATLAB SIMULATION SIMPOWER.
- Apoorva Kelkar, Rohit Kashyap and Atharva Rangnekar concluded the workshop by presenting different types of PCB’s and the etching process.



“Everything is easy when you are busy. But nothing is easy when you are lazy.”



✚ ANALOG ELECTRONICS AND PCB DESIGNING WORKSHOP

Tinkerer's Lab conducted the Analog Electronics & PCB Designing Workshop from 3rd August 2017 to 10th August 2017. Students from ETRX and INSTRUMENTATION department participated in the 5 Day workshop. During this workshop students learnt the working of BJTs and Relays, Voltage Regulators and Operational Amplifiers as well as Circuit Implementation on a PCB.

✚ EMBEDDED SYSTEM AND IoT WORKSHOP

Tinkerer's Lab conducted the Embedded Systems & IoT Workshop from 15th September 2017 to 21st August 2017. Students from ETRX, EXTC and CMPN department attended this 5 day workshop. Students were introduced to Arduino UNO development board and were given a hands-on session on interfacing switches, LEDs, sensors and Motors with Arduino IDE. In the IoT Segment, students learnt how to make Node MCU a web server and host the web page. They were also taught the basic syntax used in PHP scripting.

INTERNSHIPS

During the course of this Semester, 60 Students from our Department have successfully completed their internships at various renowned companies and industries like BARC, Godrej & Boyce Mfg. Co. Ltd., Reliance Infrastructure Pvt. Ltd., Tata Power, Indian Railway, ONGC, Manas Engineers, Drona Aviation, L&T Heavy Engineering, Crompton Greaves, National Payments Corporation of India and Tata thermal power plant.

“The more we come out and do well to others, the more our hearts will be purified, and God will be in them.”



SCHOLARSHIP

1. **Suman Tulsiani Scholarship** is awarded by Suman Ramesh Tulsiani Charitable Trust. This scholarship is decided centrally for VES colleges and forwarded to Tulsiani Trust. The criteria for this scholarship is that, the student should have a score of at least 7.00 grade and family income of less than three lakh per annum. This year it is awarded to following students of ETRX Department:

- Chowdhari Shoaib (S.E.)
- Akshay Bhise (S.E.)
- Gokul Narayanan (B.E.)
- Arvind Kushwaha (S.E.)
- Pawan Sukhwani (B.E.)
- Sayyadanwar Kazi (B.E.)
- Prathamesh Kulkarni (S.E.)
- Kiran Balakrishnan (T.E.)
- Sankalp Khandkar (B.E.)

2. **Vivekanand Jyoti Scholarship** is awarded every year to one student from each department. An Amount of Rupees Thirty thousand each is given every year. The criteria is a grade point of at least 7.00 and family Income of less than one lakh per annum. It was received by following student of ETRX Department:

- Harish Firatu (S.E.)

3. **Geeta Israni Foundation Scholarship** benefits meritorious students who scored grade point of 8.0 and above and whose family income does not exceed Rs.1.50 lakhs per annum. It was received by following students:

- Sankalp Dinanath Tripathi (T.E.)
- Madhav Agarwal (T.E.)

“The aim of life is not enjoyment, but gaining knowledge through experience.”

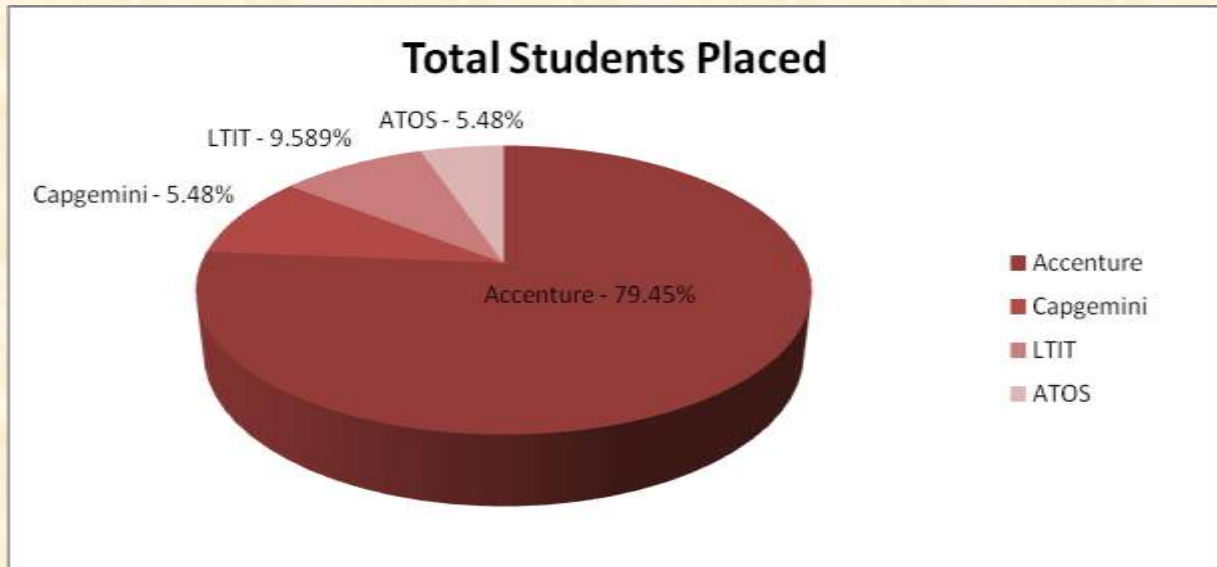


SKILL ENHANCEMENT LECTURE (SEL)

Topic	Organized by	Date	Delivered by	Year
Artificial Intelligence	Dr. T. Rajani Mangala	22 nd August 2017	Mr. Siddesh Wagale	Final
Silicon crystal structure and Miller Indices	Mr. Abhay Kshirsagar	22 nd July 2017	Mr. Prafull Tele	Final
Ideas for Mini Project	Mrs. Neelam Chaudhari and Mrs. Rupali Patil	24 th July 2017	Mr. V. M. Joshi	Third
Embedded Systems and IoT	Mrs. Anushree Prabhu	24 th October 2017	Mrs. Anita Diwakar	Third

PLACEMENTS

The department has a good placement record during this academic year. So far a total of 73 Students have been placed in various reputed companies.

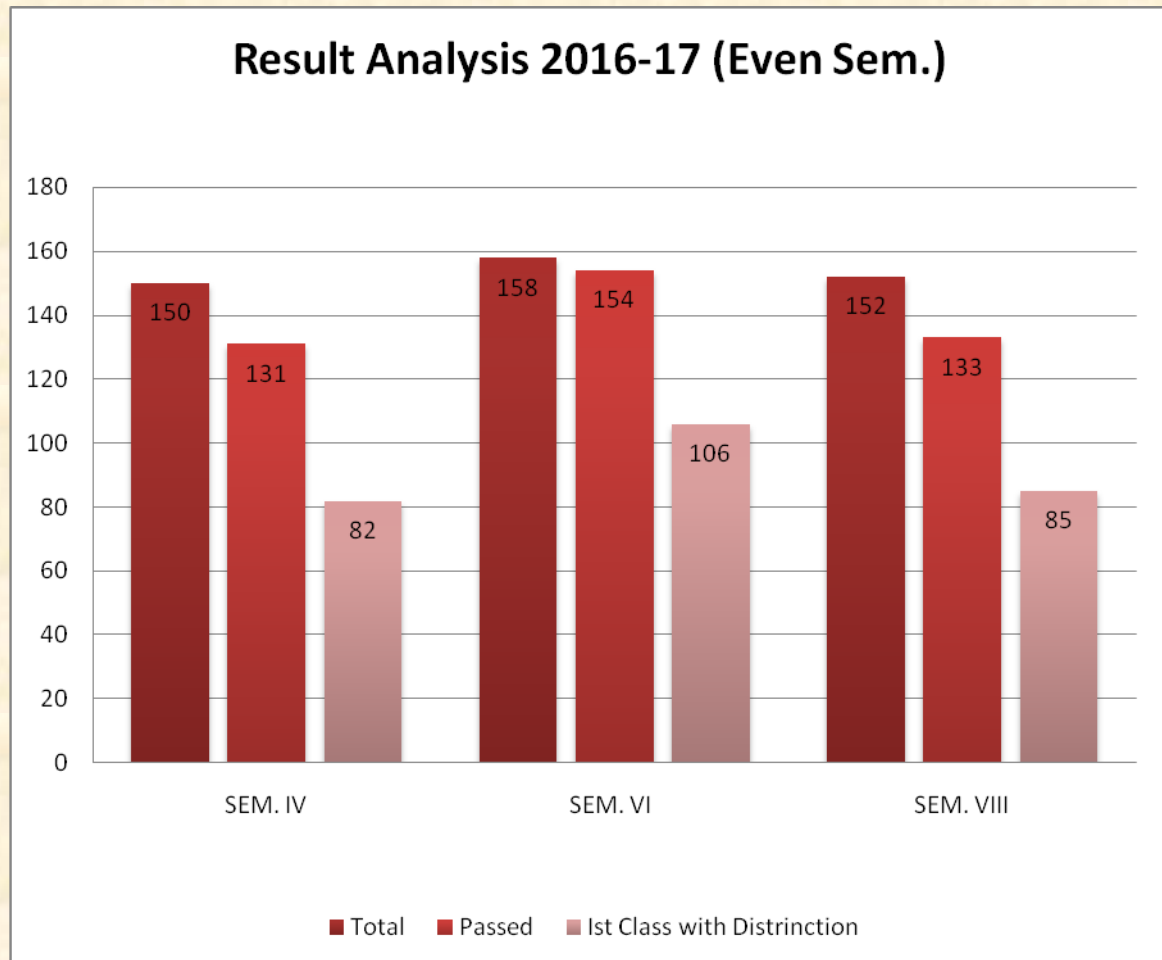


*“Everyone goes with the flow...
but the one who goes against the flow becomes someone
remarkable in life...”*



RESULT ANALYSIS 2016-17 (EVEN SEM.)

Results of University Examination conducted in May 2017.



“Do not figure out big plans at first, but, begin slowly, feel your ground and proceed up and up.”



ETRX Batch (2013-2017)



***“Who is Helping You, Don’t Forget them. Who is Loving you,
Don’t Hate them. Who is Believing you, Don’t Cheat them.”***

