



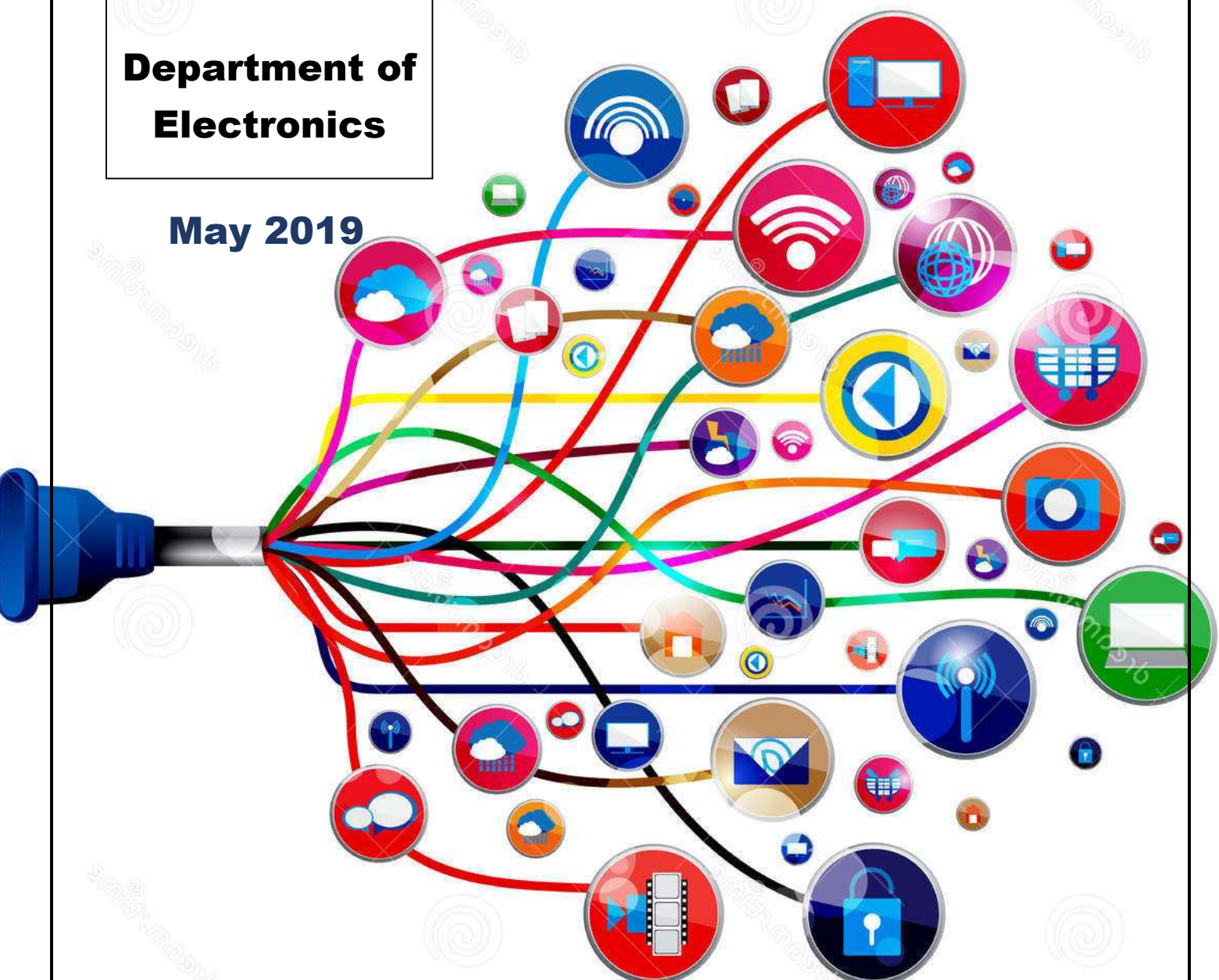
# SILICON TODAY

**V.E.S.  
INSTITUTE  
OF  
TECHNOLOGY**

**Department of  
Electronics**

*The secret of getting ahead is getting  
started*

**May 2019**



## “SILICON TODAY”



Electronics Engineering Department strives to achieve academic excellence by imparting in-depth knowledge to the students, facilitate research and production activities to cater to the ever-changing industrial demands, global and societal needs.

The department envisages imparting excellent technical education for developing ethically sound and globally competent electronics engineers.

Mrs. Naveeta Kant

Deputy HOD

Department of Electronics

“Failure is central to engineering. Every single calculation that an engineer makes is failure calculation. Successful engineering is all about understanding how things break or fail.”

Henry Petrosky

## Vision and 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.
- The department is committed to prepare students to contribute effectively to the profession and society for advanced study, lifelong learning, and conduct research integrated with education in selected areas of excellence.

### Editorial team

Mrs. Kavita Tewari (Head of Department)

Mr. Joshua Michael (Asst. Professor)

Mr. Vivek Nair (Asst. Professor)



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



## Department Activities

### ➤ Industrial visit

[1] Zoheb Shaikh, Rahul Harmalkar, Meenal Nagrecha and Lairai Karnik students of final year Electronics had visited Colaba Metrological Department, Mumbai on 27<sup>th</sup> August, 2018.



[2] Pitam Mali, Mahesh Kulkarni, Varad Tole and Mugdha Sonwane students of Final year Electronics had visited Sahyadri Farms, Nashik on 28th July, 2018.



### ➤ POGIL Topic

FRAME RELAY on 7<sup>th</sup> February 2019 by Dr. Asawari Dudwadkar



### ➤ Learning Beyond Syllabus

Annual event of VESIT where students of all branches (SE & TE) work on innovative project ideas & are allotted mentors. 11 LBS projects were shortlisted from ETRX dept.

- Water E-Governance by team leader Paarth Arkadi won 2<sup>nd</sup> Prize this year.
- Smart parking system by team leader Aaryaa P. won 3rd prize.
- IOT Based Electrical Cable Fault Detection Bot by team leader Amogh Gajare mentored by Dr. Asawari Dudwadkar was among the top 5 projects shortlisted.

### ➤ Seminar Attended/ Conducted by Faculties-

- Mrs. Amrita Jhaveri attended 1-week AICTE-ISTE approved Short Term Training Program (STTP) on '**Biology for Engineers**' in Dept. of Instrumentation, VESIT from 2<sup>nd</sup> to 6<sup>th</sup> July, 2018.
- Mrs. Anushree Prabhu attended 1-week AICTE-ISTE approved Short Term Training Program (STTP) on '**Biology for Engineers**' in Dept. of Instrumentation VESIT from 2<sup>nd</sup> to 6<sup>th</sup> July, 2018.
- Mrs. Rakhi Jadhav attended 1-week AICTE-ISTE approved Short Term Training Program (STTP) on '**Biology for Engineers**' in Dept. of Instrumentation VESIT from 2<sup>nd</sup> to 6<sup>th</sup> July, 2018.
- Dr. (Mrs.) Asawari Dudwadkar attended 1-week AICTE-ISTE approved Short Term Training Program (STTP) on '**Biology for Engineers**' in Dept. of Instrumentation VESIT from 2<sup>nd</sup> to 6<sup>th</sup> July, 2018.
- Mr. Abhay Kshrisagar attended 1-week AICTE-ISTE approved Short Term Training Program (STTP) on '**Biology for Engineers**' in Dept. of Instrumentation VESIT from 2<sup>nd</sup> to 6<sup>th</sup> July, 2018.
- Mrs. Dipti Karani attended 1-week AICTE-ISTE approved Short Term Training Program (STTP) on '**Biology for Engineers**' in Dept. of Instrumentation VESIT from 2<sup>nd</sup> to 6<sup>th</sup> July, 2018.
- Mrs. Amrita Jhaveri attended 1-day Orientation on '**SEQUEL App**' By Prof. M. B. Patil (IIT Bombay) in Dept. of Electronics SPIT on 27<sup>th</sup> July, 2018.
- Dr. (Mrs.) Rajani Mangala attended 1-week program on '**Deep Learning and Artificial Intelligence**' VESIT in association with Revert Technology Pvt. Ltd., E-Summit, IIT Roorkee from 2<sup>nd</sup> to 7<sup>th</sup> July, 2018.
- Mr. Abhijit Shete attended 1-week program on '**Deep Learning and Artificial Intelligence**' VESIT in association with Revert Technology Pvt. Ltd., E-Summit, IIT Roorkee from 2<sup>nd</sup> to 7<sup>th</sup> July, 2018.
- Dr. P. Birajdar attended 1-week program on '**Deep Learning and Artificial Intelligence**' VESIT in association with Revert Technology Pvt. Ltd., E-Summit, IIT Roorkee from 2<sup>nd</sup> to 7<sup>th</sup> July, 2018.

- Mr. Yogesh Pandit attended 1-week program on '**Deep Learning and Artificial Intelligence**' VESIT in association with Revert Technology Pvt. Ltd., E-Summit, IIT Roorkee from 2nd to 7th July, 2018.
- Mrs. Jaymala Adsul attended 2-day program on '**Hands on - ZYBO Zynq-7000 development board of FPGA**' on 2nd & 3rd January, 2019.
- Mr. Yogesh Pandit attended 2-day program on '**Hands on - ZYBO Zynq-7000 development board of FPGA**' on 2nd & 3rd January, 2019.
- Mr. Abhijit Shete attended 2-day program on '**Hands on - ZYBO Zynq-7000 development board of FPGA**' on 2nd & 3rd January, 2019.
- Mrs. Dipti Karani attended 2-day program on '**Hands on - ZYBO Zynq-7000 development board of FPGA**' on 2nd & 3rd January, 2019.
- Mrs. Amrita Jhaveri attended 1-week ISTE approved Short Term Training Program (STTP) on '**Green Internet of Things**' in Dept. of Electronics and Telecommunications, VESIT from 2<sup>nd</sup> to 8<sup>th</sup> January, 2019
- Mr. Vivek Nair attended 1-week ISTE approved Short Term Training Program (STTP) on '**Green Internet of Things**' in Dept. of Electronics and Telecommunications, VESIT from 2<sup>nd</sup> to 8<sup>th</sup> January, 2019.
- Mr. Abhay Kshrisagar conducted Orientation of Microcontrollers and Applications for III year, Sem V Electronics Engg, in Datta Meghe College of Engineering, Airoli, Navi Mumbai on 13<sup>th</sup> July, 2018
- Dr. (Mrs.) Asawari Dudwadkar attended Orientation of Embedded Systems and Real Time Operating Systems for 3<sup>rd</sup> year, Sem. VI Electronics Engg in Fr. Agnel College of Engineering on 17<sup>th</sup> January, 2019.
- Mr. Abhishek Chaudhari attended Orientation of Embedded Systems and Real Time Operating Systems for 3<sup>rd</sup> year, Sem. 6 Electronics Engg in Fr. Agnel College of Engineering on 17<sup>th</sup> January, 2019.
- Mr. Abhishek Chaudhari has successfully completed certification Course of "Introduction to IOT" (12 Week Course) and "Robotics" (8 Week Course) in the month of Nov 2018.
- Mrs. Amrita Jhaveri has successfully completed certification Course of "Fundamentals of Electrical Engineering" (12 Week Course) in the month of Nov 2018.
- Mrs. Dipti Karani has successfully completed certification Course of "Computational Electromagnetics & Applications" (12 Week Course) in the month of Nov 2018.
- Mrs. Dipti Karani attended 1-week AICTE and ISTE sponsored Short Term Training Program (STTP) on 'Open Data Science and IOT ' at VIT from 25<sup>th</sup> to 30<sup>th</sup> June, 2018.
- Mr. Abhijit Shete attended 1-week AICTE and ISTE sponsored Short Term Training Program (STTP) on 'Open Data Science and IOT ' at VIT from 25<sup>th</sup> to 30<sup>th</sup> June, 2018.
- Dr. P. Birajdar attended 1-week AICTE and ISTE sponsored Short Term Training Program (STTP) on 'Open Data Science and IOT ' at VIT from 25<sup>th</sup> to 30<sup>th</sup> June, 2018.

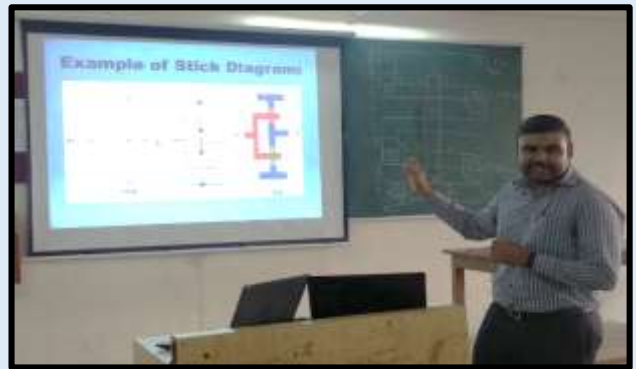
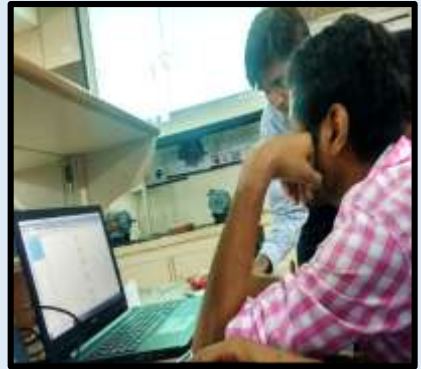
- Ms. Rakhi Jadhav attended 1-week AICTE and ISTE sponsored Short Term Training Program (STTP) on 'Open Data Science and IOT ' at VIT from 25<sup>th</sup> to 30<sup>th</sup> June, 2018.
- Mr. Abhishek Chaudhari has successfully completed certification FDP course of "Introduction to IOT" (1.5 Weeks) in the month of Nov 2018.
- Mrs. Dipti Karani has successfully completed FDP course of "Computational Electromagnetics & Applications" (1.5 Weeks) in the month of Nov 2018.
- Mrs. Dipti Karani attended 1-day orientation program of NPTEL at SIES Arts, Science and Commerce College on 6th December 2018.

### ➤ **Workshops Conducted**

One Week '**Skill Development Workshop**' during **8<sup>th</sup> Jan to 14<sup>th</sup> Jan 2019**.

- Dr. (Mrs.) Rajani Mangala conducted a session on 'An Introduction to Artificial Neural Networks'
- Mr. Abhay Kshirsagar conducted a session on 'Introduction to VLSI Design', 'Introduction of Internet of Things' & 'Inverter Designing'
- Mr. Yogesh Pandit conducted a hands-on session on 'Digital Circuit Simulation using VHDL Programming'
- Mr. Abhijit Shete conducted a hands-on session on 'PCB Design using EAGLE Software'
- Mr. Abhishek Chaudhari conducted a session on 'Introduction to Embedded Systems and FireBird V'
- Mrs. Sarika Kuhikar conducted a hands-on session on 'Introduction to MATLAB Simulink using Sim Power System'
- Mrs. Dipti Karani conducted a hands-on session on 'Introduction to MATLAB Programming'.
- Ms. Rakhi Jadhav conducted a session on 'An Introduction to Electrical Machines'.
- Mr. Vivek Nair conducted a session on 'Inverter designing using Microwind software'.
- Mrs. Sarika Kuhikar, Mrs. Dipti Karani and Mr. Abhishek Chaudhari have co-coordinated the One Week 'Skill Development Workshop' during 8th Jan to 14th Jan 2019.







## FACULTY ACHIEVEMENTS

- ✦ Mrs. Jayamala Adsul received **best paper** award for “**Design and Simulation of a New Reconfigurable Analog to Digital Converter based on Multisim,**” at 3rd Biennial International Conference on Nascent Technologies in Engineering (ICNTE) 2019.
- ✦ “Unconstrained Ear Recognition Using Deep Scattering Wavelet Network” is research paper presented at reputed IEEE conference IBSSC 2019 authored by Dr. Parmeshwar Birajdar.
- ✦ Dr. P.Birajdar Published paper “Towards Touchless Fingerprint Recognition”, SADHANA Academy Proceeding, Vol. 44 Issue 7, June2019, ISSN-02562499.
- ✦ Dr. Asawari Dudwadkar published paper “Water level Monitoring System”, IRJET Vol. 5 Issue 8, August 2018, ISSN: 2395-0056
- ✦ Dr. Asawari Dudwadkar published paper “IoT Enabled Notice board”, International Conference in Convergence in Technology 2019, IEEE Bombay section, March 2019
- ✦ Dr. Asawari Dudwadkar published paper “Self-stabilizing spoon using Fuzzy controller”, JETIR, Vol 5, issue 12, UGC approved Journal, Dec 2018, ISSN-2349-5162.
- ✦ Dr. Asawari Dudwadkar published paper “Smart Tourism Application”, JETIR, Vol 5, issue 12, UGC approved Journal, Dec 2018, ISSN-2349-5162.
- ✦ Mrs. Sarika Kuhikar published paper “Automated waste management system for smart cities”, JETIR 2019, Vol. 6 Issue 3, March2019, ISSN-2349-5162.
- ✦ Mr. Vivek Nair, published paper “Drunk Driving and Drowsiness Detection Alert System”. International Conference on ISMAC in Computational Vision and Bio-Engineering 2018, ISBN 978-3-030-00665-5

## OTHER ACTIVITIES

### ➤ Guest lecture:

Guest lectures were delivered by **Prof. Nagananda**, Assistant professor, EXTC Department on “**Skill Set Analysis, Resume Writing and Placement Process**” was arranged for second and third year ETRX students.

### ➤ Skill Enhancement Lectures (SEL):

- An expert lecture on “**Electromagnetic Radiation and Antennas**” for third year students were delivered by **Dr. S. V. Kulkarni**, Professor, Department of Electrical, Engineering, IIT Bombay on 22<sup>nd</sup> September, 2018.
- An expert lecture on "**Solar Energy and Application**" for third year students was delivered by **Mr. Vedant Rathi** on 12<sup>th</sup> October 2018.

## STUDENT ACTIVITIES

### ✚ STUDENT ACHIEVEMENTS:

#### [1] Semi-Automatic Rooftop Solar Panel Cleaning Robot-

From left: Pitam Mali, Mahesh Kulkarni, Varad Tole, Mugdha Sonwane [B.E. Students] **Mentor:** Mr. Abhay Kshirsagar



#### [2] Drone project by Sanket Bhegde D6B.

[3] Students of S.E and B.E. participated in Avishkar held in SIES, FR CE Vashi & Bandra, Terna College of Engineering, RAIT.

Be the change you want to see in the world  
- Mahatma Gandhi

**[4] Deep Blue Project:** Yash Pati, Onkar Karjolkar, Saurabh Koturwar participated in Deep Blue competition organised by Mastek Technology & **won Super Team award.**



**[5] Kalyani Ingole** from Second Year secured **First prize** for “**Design solution for storing Solar Energy in form of endothermic chemical reaction and release to generate electric energy**” on 16<sup>th</sup> February 2019.



## **STUDENT PUBLICATIONS**

- Mihir, Rohan, Abhishek, Padmaj, published paper titled “Smart Tourism App”, IETE- International Conference on Recent Trends in Sustainable Technologies (ICRTST), July 2018, Datta Meghe College of Engineering, ISBN: 978-93-5267-422-0.
- Shardul Maalvankar & Mansi patole published paper titled “Smart Labs”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), 2018, ISSN (Online): 2319-8753.
- Aditya Gogwekar, Mansi Mistry, Rushabh Patil, “Car Simulator”, IETE- International Conference on Recent Trends in Sustainable Technologies (ICRTST), July 2018, Datta Meghe College of Engineering, ISBN: 978-93-5267-422-0.
- Siddhant Yeole, Sai Prahladh & Varad Tole, “Sensors in automobile & associated mechanism: A Review”, Journal of Emerging Technologies and Innovative Research (JETIR), Vol. 5, Issue 9, September 2018, ISSN: 2349-5162.



- Mr. Takshan Shetty, Mr. Prathamesh Wagh, “Water Level Monitoring System”, International Research Journal of Engineering and Technology (IRJET), Vol. 5, Issue 8, August 2018, e-ISSN: 2395-0056
- Akanksha Toley, Raj Jadhav, Nikhil Thorat, “Design & Development of A 6 DOF Bipedal Robot with Imitation Learning”, International Journal of Engineering Development and Research, (IJEDR) Vol. 6, Issue 3, 2018, e-ISSN: 2321-9939.
- Abhishek Manurkar, Rohan Pawar, Mihir Patange, Padmaj Manore, “Smart Tourism Application”, Journal of Applied Science and Computations (JASC), Vol. 5, Issue 10, October 2018, e-ISSN: 1076-5131.
- Pavitra Kanse, Raj Jadhav, Rakhi Jadhav, “Self-stabilizing spoon using Fuzzy controller”, Journal of Emerging Technologies and Innovative Research (JETIR), Vol. 5, Issue 12, December 2018, e-ISSN: 2349-5162.
- Mr. Omkar & Ms. Anuja Merwade presented paper in **IEEE conference at Pune on IOT based E-notice board** mentored by Dr. Asawari Dudwadkar



### **Workshop:**

- Third Year students Conducted a Four-day workshop on “**ARM TRAINING SESSION on STM32F**” for Second and Third-Year students.



➤ **Department Rankers**

**Rank Holders for First Year Electronics Engineering:**

<b>Sr. No.</b>	<b>NAME OF THE STUDENT</b>	<b>CGPI OF FIRST YEAR</b>
1	Patil Gayatri Prakash	9.72
2	Tembe Yogesh Dnyaneshwar	9.69
3	Amin Anjali Ravi	9.63

**Rank Holders for Second Year Electronics Engineering:**

<b>Sr. No.</b>	<b>NAME OF THE STUDENT</b>	<b>CGPI OF SECOND YEAR</b>
1	Nashte Siddhant Sanjay Vaishali	9.93
2	Bangar Vinayak Datta Savita	9.84
3	Kotur Srujana Shridhar Vandana	9.71

**Rank Holders for Third Year Electronics Engineering:**

<b>Sr. No.</b>	<b>NAME OF THE STUDENT</b>	<b>CGPI OF THIRD YEAR</b>
1	Dinda Sudipta Saktipada Sibani	9.93
2	Angolkar Radhika Vijaykumar Samridhi	9.89
3	Bhandwalkar Sonali Shivaji Madhuri	9.89

**Rank Holders for Final Year Electronics Engineering:**

<b>Sr. No.</b>	<b>NAME OF THE STUDENT</b>	<b>CGPI OF FINAL YEAR</b>
1	Mahaldar Pranay Pankaj Anjali	9.42
2	Joshi Mihir Abhay Janhavi	9.39
3	Pawar Falguni Sanjay Sharmila	9.35

Thinking is the Capital, Enterprise is the Way, and Hard work is the Solution -  
Dr. APJ Abdul Kalam

# CONVOCAATION

Convocation ceremony took place on 16th March, 2019. 106 ETRX Students were awarded their degree certificates by Mr. Bipin Kumar Shah Working for Bharat Petroleum Corporation Limited having nearly 41 years of service in the same organisation.





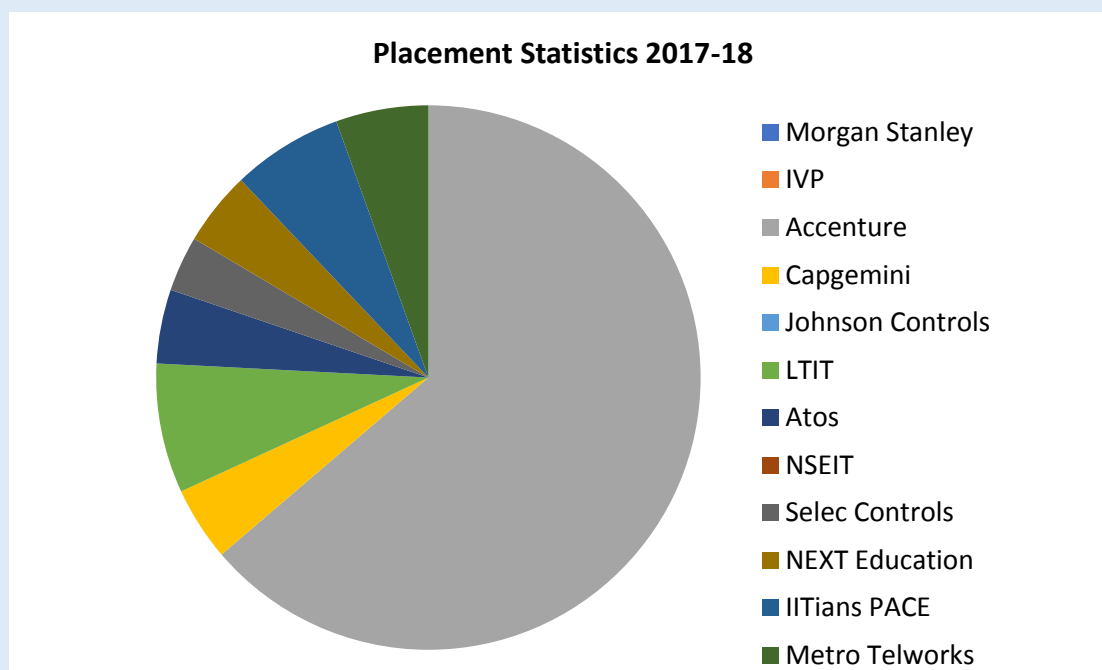
## Internship Details (A.Y. 2017-18)

More than 50 students from second, third and final year completed Internship/ Industrial training in various companies such as BARC, Doordarshan, Godrej, Indian Railways, etc. during summer vacation.

- Rashtriya Chemicals and Fertilizers
- Godrej
- BARC (Bhaba Atomic Research Centre)
- Western Railway
- ONGC, Uran Plant
- JSW Steel & Coated Pvt Ltd
- Larsen & Toubro (Heavy Engineering)
- Siemens

## PLACEMENT

It's an immense pleasure to announce that **88** students of **2017 -18** batch have got placement offers from various companies like Accenture, Capgemini, Atos, L and T Infotech, ATOS, Selec Controls, Next Education and IITians PACE.

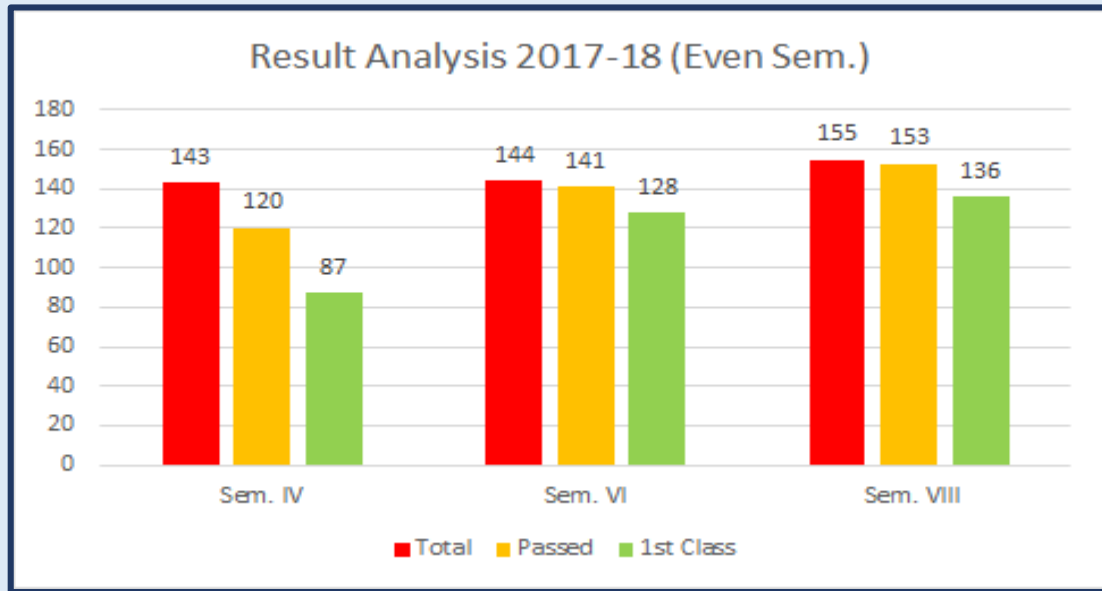


Choose a job you love, and you will never have to work a day in your life.

- Confucius

## RESULT ANALYSIS 2017-18 (EVEN SEM)

The result of University Examination conducted in May 2018 is as follows:



## HIGHER STUDIES

Some of the prestigious universities where Electronics students enrol for Post-Graduation



## EXTRA CURRICULAR ACTIVITIES

Students participating in various activities during SPURTHI – Annual Sports Event held in January and in UTSAV – Annual Cultural Event held in March including Drama, Dance, Art and Cooking events.



Creativity is as important now in education as literacy and we should treat it with the same status.  
- Ken Robinson





Champions are made from something they have deep inside of them- a desire, a dream, a vision.  
- Mahatma Gandhi

## EXRX BATCH (2015- 2019)



**D16 A Class Photograph**



**D16 B Class Photograph**

Good Friends, good books and a sleepy conscience: This is the ideal life.

- Mark Twain

Life is like a book. Enjoy it before.....

**The End**