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## “HOD SPEAK”

From HOD's Desk –Jan 2020



**Dr. Sanjay Singh Thakur**  
Head of the Department

I appreciate and extend my good wishes to our faculty members and support staff for the good work done in arranging in-house internship Programs for students and skill development programs for support staff during winter break, local seminars, workshops and augmentation courses in the department during this semester. I appreciate that the faculty members of the department had shown, last quarter, a good numbers of publication. Session commenced in Jan 2020, everything was smooth and good.

But life is not about straight and smooth sailing, by mid-March the notification had come to be at home and do our work from home only, The whole world is facing the impact of pandemic coronavirus, it has affected all people from all parts of life. In the wake of the novel Covid-19 pandemic, the nation is under a complete twenty-one-day lockdown. All work except that of essential services has been put on hold. The hardest hit by this move are the daily wage workers owing to the nature of their job, who don't have money to feed their families and they are migrating to their village, and possibilities of spreading the virus.

We have learnt many things and continuously involved with it, as far as, technology is concerned; now its time to learn the life skills and apply in prevailing situation. Each one of us need to learn following things, like: Life Saving Technology, Economics, Curfew/ Lockdown, Crisis and its management, Disaster management, People migration and Crowd management, Essential item's transportation, Resource management at home, Thriftiness, Quality time management at home/ sharing & caring, Watch the top movies and educational TV series, Quality reading- story/general/technical/ research, Relive the memory with family, story-telling and friends(online)- album, Develop Hobby: art & craft, photography, new language, cooking, music-singing-dancing, online course-skill up/re-skill, Exercise/yoga, Expanding networks and if permitted- Volunteer.

Four weeks is a long time, but know that this too shall pass. Make your wish list of all the things you want to do once the lockdown is lifted. Above all else, be sure to enough sleep, eat well and be good to yourself in general. The key to becoming the best version of yourself is to overcome interferences like- fears, anxieties, self-doubt, loss and illness.

We will be on track soon.....“Stay safe, stay healthy”.

## EXTC Department Activities

1. A three day workshop on 'Database Management System' was organized for SE and TE Students of EXTC Department. It was conducted on 18<sup>th</sup> Jan,25<sup>th</sup> Jan and 1<sup>st</sup> February,2020.

The workshop was divided into three Saturdays. Prior to commencement of the session, students were provided with the software required for the workshop. The first day of workshop started with a warm welcome to the speaker Prof.Rohit Barve by the convener Prof. Amit R. Maurya. In the first session, Prof.Rohit Barve briefed the students with basics of database and prerequisites of practical session. From next session onwards participants had to learn practically using “pgAdmin4” software. Next two days the speaker taught various concepts which were side by side implemented practically by all participants. At the end of third day of workshop, certificates were distributed to the speaker, convener and all the participants.

“Book holds a house of Gold”  
— Anonymous

## Faculty Profiles



Name: Prof. Prathamesh Indulkar

Designation : Assistant Professor

Department: Electronics & Telecommunication Engineering

Qualification: ME Electronics and telecommunication

Teaching Experience : 7+ Years

Areas of Interest : Electronic Devices and circuits, Digital electronics, VLSI



Name: Prof. Prathamesh Mestry

Designation: Assistant Professor

Department: Electronics & Telecommunication Engineering

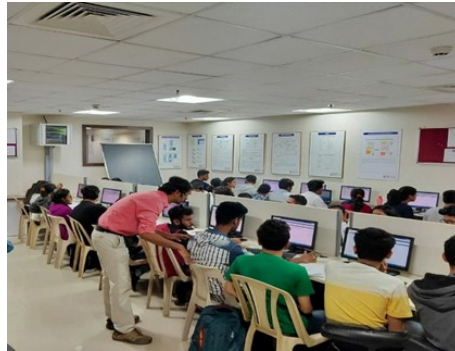
Qualification: ME Electronics and telecommunication

Teaching Experience : 7+ Years

Areas of Interest: Microwave engineering, Antenna and wave propagation, Image processing

Takeaways from three day workshop:

- Basics of Database management and firing of query has been learned and understood.
- Students received participation certificates.
- IETE –VIT committee received feedback for the workshop from the respective attendees.



**Figure 1. (L) Day 2 of the workshop. (R) Prof.S.S.Thakur felicitates Prof.Rohit Barve on Day3**

Total 81 people attended the workshop including committee members, participants, speaker and convener.

2. A two day workshop on 'LabVIEW tool' was organized for EXTC Students on 29th Feb and 14th March 2020. The objective of the workshop was to introduce to students basics of LabVIEW and signal processing. Also to explain students case and event structure of LabVIEW and finally teach them to interface LabVIEW with Arduino.



**Figure 2. Dr.Arpit Rawankar delivered lecture on labVIEW to students**

This event was done under IETE and the session was planned and well executed by Prof. Amit Maurya along with his students team who worked as IETE Members.

Initiation of the workshop began with a warm welcome to the lecturer Dr. Arpit Rawankar. The workshop began with getting the working platform ready i.e. Installation of LabVIEW software. Speakers and IETE Volunteers helped student's on doubts and queries related to software installation. A small introduction to LabVIEW and the need of course for an engineer was explained. The workshop was planned accordingly for 3 Saturdays with the content to be covered within the span dividing short and long breaks. On the first day, the major part of the workshop focused on concept briefing, installation and explanation of the software i.e. Majorly the Theoretical Part. On Day 2, Actual Hands on concepts were explained like how LEDs, Wave Generator and such other components can be configured in LabVIEW. Day 2 concluded with project assignments to the student groups on topics like Traffic Lights, Water Level Indicator, etc

3. An IV to JNPT Port was arranged for TE EXTC Students on 27th Jan, 2020. The session began with introductory speech on JNPT port and its history by supervisor incharge present on the day. It was a good experience for students. Students experienced the working and specifications of containers for which JNPT is popular. Students were also given knowledge on the import and export of commodities exchanged between various countries. Students were lucky to see ships leaving to sail. Staff at JNPT also briefed students on various internships and Job opportunities available at JNPT. Total 43 students and four faculty members were present for the visit at JNPT.

“I have not failed. I've just found 10,000 ways that won't work ”

—Thomas Edison

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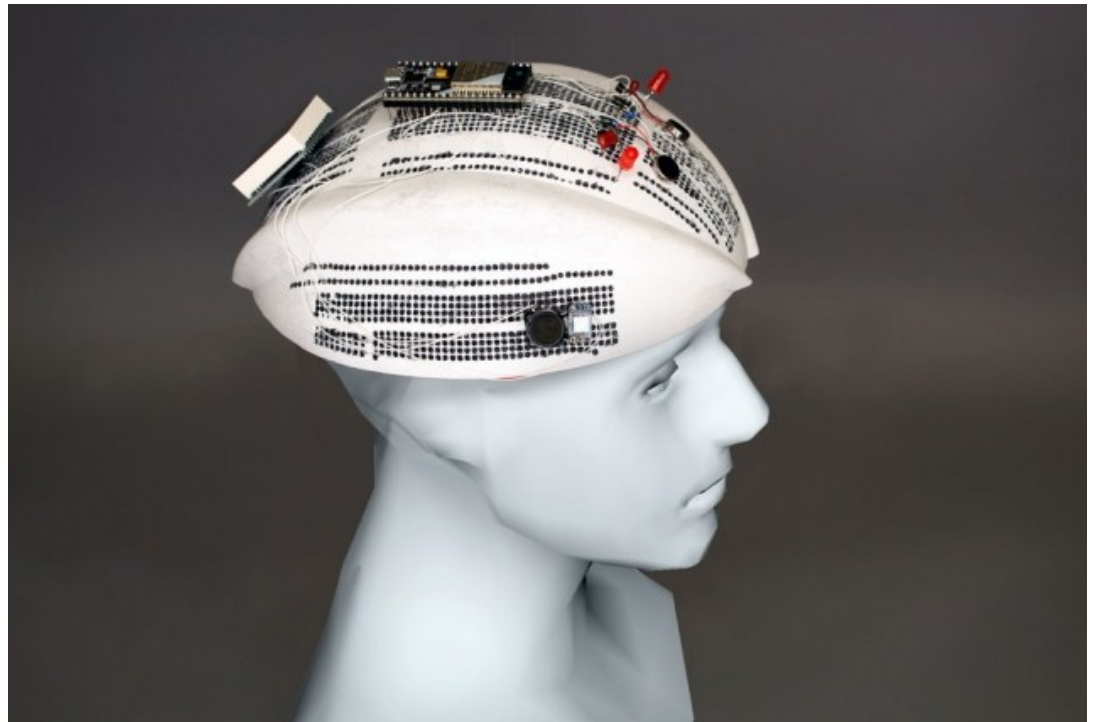
Name of Alumnus: Amit Maurya  
2014 Batch

Qualification : ME in Electronics  
and Telecommunication

Message: I take pride in being an alumnus of Vidyalandkar Institute of Technology (VIT). Acquiring admission to VIT was one of the most important and correct decision of my life. It was truly a wonderful and enlightened experience of my student phase. I was able to explore and excel in academics fronts to the extent well beyond my imagination. It was a pleasure to have such knowledgeable teachers and studious environment. I was so touched by the aura of the institute that I wished to be able to teach in the same institute as my teachers. After joining as VIT as a teaching faculty, I'm able to explore my capabilities on a whole new different level. Being a part of VIT family for almost 6 years is a wonderful experience. I truly believe that VIT has played a vital role in shaping my student life and teaching career.

## Research topic of the Quarter

### Integrating electronics onto physical prototypes



**Figure 3. Curveboards which are 3D BreadBoards commonly used to prototype circuits that can be designed by custom software, 3D Printed and directly integrated into the surface of physical objects**

MIT researchers have invented a way to integrate “breadboards” — flat platforms widely used for electronics prototyping — directly onto physical products. The aim is to provide a faster, easier way to test circuit functions and user interactions with products such as smart devices and flexible electronics. Breadboards are rectangular boards with arrays of pinholes drilled into the surface. Many of the holes have metal connections and contact points between them. Engineers can plug components of electronic systems — from basic circuits to full computer processors — into the pinholes where they want them to connect. Then, they can rapidly test, rearrange, and retest the components as needed.

But breadboards have remained that same shape for decades. For that reason, it's difficult to test how the electronics will look and feel on, say, wearables and various smart devices. Generally, people will first test circuits on traditional breadboards, then slap them onto a product prototype. If the circuit needs to be modified, it's back to the breadboard for testing, and so on.

In a paper being presented at CHI (Conference on Human Factors in Computing Systems), the researchers describe “CurveBoards,” 3D-printed objects with the structure and function of a breadboard integrated onto their surfaces. Custom software automatically designs the objects, complete with distributed pinholes that can be filled with conductive silicone to test electronics. The end products are accurate representations of the real thing, but with breadboard surfaces.

Joining Zhu on the paper are CSAIL graduate students **Lotta-Gili Blumberg**, **Martin Nisser**, and **Ethan Levi Carlson**; EECS undergraduate students **Jessica Ayeley Quaye** and **Xin Wen**; former EECS undergraduate students **Yunyi Zhu** and **Kevin Shum '19**; and **Stefanie Mueller**, assistant professor of EECS.

Reference: <http://www.eecs.mit.edu/news-events/announcements/integrating-electronics-physical-prototypes>

## Updates

1. AICTE sponsored STTP on 'Telecom Networks' organized by EXTC Department

When: May 2020

2. International conference on Data Science and Internet of Everything (ICDSIE 2020) organized by Vidyalankar Institute of Technology, Mumbai

When: 19/06/2020 and 20/06/2020

### Cluster Mentors of Department

1. Prof. Rama Rao
2. Prof. Dr. Saurabh Mehta
3. Prof. Sanjay Singh Thakur
4. Prof. Vibha Wali
5. Prof. Sheetal Mapare
6. Prof. Vaibhav Kshirsagar
7. Prof. Pravin Patil
8. Prof. Ranjana Gite
9. Prof. Santosh Jagtap
10. Prof. Satendra Mane
11. Prof. Anand Tripathi

### Academics

- EVEN Semester Started  
When: 6th Jan, 2020
- Practical/viva exams for ODD Semester ended  
When: 29th October, 2019.
- EVEN Semester exam begins:  
When: No tentative dates yet known

## Achievements of the Department

### Dr. S.S. Thakur's Achievements

- Attended IETE Mumbai Centre organized 9th Dr P B Parikh's Endowment Lecture at RGIT, Andheri on 24<sup>th</sup> Jan 2020. The event started by lighting the lamp and welcoming the guest by IETE Mumbai Chairman, Dr S S Thakur.
- Had been invited speaker to deliver a Technical talk on "Next Generation Wireless Communication-5G" at Doordarshan Kendra, Worli-Mumbai, Organized by Broadcast Engineering Society (India)-Mumbai on 27<sup>th</sup> Jan 2020,
- Had been invited as Chief Guest to Inaugurate Oscillation, 2020 at Shivajirao S Jondhale College of Engineering, Dombivali and delivered a Technical Talk on "2020 is Shaping up with 5G" on 6<sup>th</sup> Feb 2020 and also had been invited to Inaugurate 'Oscillation 2020' at KJSIEIT, Mumbai on 29<sup>th</sup> Feb 2020 and for inauguration of NEW ISF at Atharva CoE, Malad and delivered a Technical talk on "Green Communication" on 6<sup>th</sup> March 2020.

### Dr. Saurabh Mehta's Achievements

Dr. Saurabh Mehta published a paper titled "**Bayesian-Based Spectrum Sensing and Optimal Channel Estimation for MAC Layer Protocol in Cognitive Radio Sensor Networks**", J. Maisuria and S. Mehta, published in the computer journal, oxford press, 6<sup>th</sup> March 2020, DOI: <https://doi.org/10.1093/comjnl/bxaa002>, (SCI/Scopus Index).

### Course Book/Material:

Self-Learning Course on "**Elements of MOOC and TPACK**," by S. Mehta and Prof. Vibha Wali, in VIT Domain, 9<sup>th</sup> March 2020, Mumbai. (<http://ocw.vit.edu.in/ilc/#/video/id/1807887>)

### Articles Published in Newspaper/Magazine:

Article on "Cricket and Rahul Dravid," for aarsh Magazine, will be published in April 2020.

Article on "Introduction to Film: Juli and Juliya," For Aarsh

### Department & Institute- Talks/Presentation:

- "Different Taxonomies and Teaching Philosophies", S. Mehta, IEEE Webinar Series, VIT, 19<sup>th</sup> March 2020, Mumbai.
- "Elements of MOOC and TPACK", S. Mehta, VIT, 9<sup>th</sup> March 2020, Mumbai.
- "Path to excellence in Academia", S. Mehta, VIT, 3<sup>rd</sup> February 2020, Mumbai.
- "Path to excellence in Academia", S. Mehta, VIT, 20<sup>th</sup> January 2020, Mumbai.
- "Path to excellence in Academia", S. Mehta, VIT, 13<sup>th</sup> January 2020, Mumbai.

### Invited Talks/Seminars:

- "Different Taxonomy Models and Teaching Philosophies", S. Mehta, IEEE Webinar Series, 26<sup>th</sup> March 2020, Mumbai.
- "Conference Leadership Program-2", S. Mehta, IEEE Webinar Series, 24<sup>th</sup> March 2020, Mumbai.
- "Understanding the Process of Student Satellite Making", S. Mehta, for DBCOE, IEEE Webinar Series, 14<sup>th</sup> February 2020, Mumbai.
- "Ham Radio: Guideline and Awareness on Exam Process", S. Mehta, for DBCOE, IEEE Webinar Series, 12<sup>th</sup> February 2020, Mumbai.
- "Wireless Networks: Challenges and Opportunities", S. Mehta, RAIT, 6<sup>th</sup> February 2020, Mumbai.
- "How to Read and Write Technical Paper", S. Mehta, IEEE SKEP Session, 4<sup>th</sup> February 2020, Mumbai.
- "Conference Leadership Program-1", S. Mehta, IEEE Webinar Series, 24<sup>th</sup> January 2020, Mumbai.

### Editor

Prof. Amey Revandkar

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