Prof. Varsha Bhosale, VIT, Vice-Principal

Reach high, for stars lie hidden in you. Dream deep, for every dream precedes the goal.

Rabindranath Tagore

With an engineering acumen which is always on an eternal quest for the unknown, **I wish all the VITians a great year 2017 to forge ahead with a conviction that is ready to unravel the unknown.** Let us know that science is about 'knowing', but engineering is about 'doing'.

The year 2016 culminated with a great forum of ideas shared through the Third International conference on Recent Advances and Challenges in Engineering and Management (RACEM 2016) at VIT, with many scholarly articles published by staff and students of VIT and other institutions. Eminent Nuclear scientist Dr. Anil Kakodkar, recipient of Padmabhibhushan, Ex-Chairman, Atomic Energy Commission was the Chief Guest and Smt. Sulabha Ranade, Director General, SAMEER, Ministry of Electronics and Information Technology was the guest of honor to grace this occasion. To inaugurate the year 2017 with a fiesta ready to enthrall the students, opening up new vistas presented by the student council, we have the college festival, Verve 2017 which will undoubtedly be the most sought after festival by college students in Mumbai. This semester, too, we integrate the learning process by industrial visits, Project Competition,Tantravihar'17 and many more, to give everyone a happy learning experience at VIT.

With an indefatigable spirit imbued in each one of us, let us invigorate to do the impossible. Believe in yourself and fathom the echelons of success.

The only thing that will redeem mankind is cooperation-

Bertrand Russell

ISTE approved Short Term Training Programme (STTP) on "Innovations and Applications of Engineering and Mathematics"

The Department of Applied Mathematics organized an ISTE approved Short Term Training Programme on "Innovations and Applications of Engineering Mathematics" from 28 November to 02 December 2016. Many experts and highly experienced teachers from IIT, TIFR, University of Mumbai, and other reputed Institutes shared their valuable insights.

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Dr.Suresh Ukarande, former Dean and ISTE Executive Council member was the Chief Guest. Eminent mathematician Dr. Eknath Ghate (Shanti Swarup Bhatnagar Prize Awardee for science and technology, 2013) was the keynote speaker who delivered a brilliant talk on the "Tau of Ramanujan".

Over the 5 days of the STTP, as many as 78 participants immensely benefited from the latest knowledge related to the intriguing world of Mathematics, to be eventually shared with students. Eminent professors from reputed institutes came to unravel the mysteries of Mathematics.

Certain topics like Eigenvalues, Differential equations, Number theory were touched upon from a new perspective. The STTP was a great learning experience and value addition for participants as well as the organizing team.

"The best preparation for tomorrow is doing your best today." — H. Jackson

A Faculty Development program was conducted by the Humanities Department, VIT in collaboration with Tata Consultancy Services Ltd. wherein Mr Gaurav Gandhi, Regional Head, Academic Interface Programme and Mr. Vipul Honrao, SAP consultant, TCS gave valuable insights towards bridging the gap between the campus and the corporate world. Mr. Gandhi suggested many new strategies to be incorporated in the teaching –learning process. Mr. Vipul also focussed on the correct learning and development of the students. Evolution and flexibility is the key to success in this dynamic global world.

Department of First Year Engineering

STP Visit

Dr. Poonam Bathla took all the F.E. students to Sewage Treatment Plant installed at VIT campus in the months of September and October,2016 to give them an idea of its components and the functioning. Based on MBBR Technology and is operated and managed by Klean Environmental Consultants Pvt. Ltd.

Students Speak

VIT has offered me a barbecue platter of experience; from giving me the fresh feeling of enjoying the limelight as Miss Fresher to being the 'nerdy' of the class. VIT simply magnifies the spice in my life. Until now VIT has been a roadway of learning experiences which has taught me to be bold and not to forget the pinch of reality check where I realized to be transparent to myself in every situation. Short life at VIT is a roller coaster with interesting ups, strengthening downs and thrilling fun!

Tanishka Gupta, FE ETRX A

I entered VIT filled with anticipation, some anxiety and ready for wonderful discoveries. My first major challenge was to cope up with college work as it was a large volume of reading, writing and the short deadlines. My experience at VIT so far has been just marvellous and I am now surely charged up for the imminent years and hoping to keep using my experiences to glorify my career.

Sairaj Adkar , FE INFT A

I feel rewarded as to be a part of VIT. My experience so far in VIT has been worth a recap. I was highly impressed by the course of action it has offered right from the beginning. In all the time I have spent here I have learnt the interdisciplinary skills that always kept my mind engaged alongside rational people. I was truly amazed by supportive, interactive, and intellectual professors here who have helped me save my time by not joining any sort of coaching class.

Shouryaraj Kalekar, FE BIOMED

> "We may encounter many defeats but we must not be defeated."
> – Maya Angelou

Faculty Profile

Prof. Vinita Bhindiwad

Department:

Information Technology

Designation :

Assistant Professor

Educational Qualfication:

ME in Electronics and Telecommunications

Specialization:

Wireless Technology & Microprocessor

Experience: 3 years

Prof. Bhanu Tekwani

Department :

Information Technology

Designation :

Assistant Professor

Educational Qualification :

ME in Computer Engineering

Specialization:

OO Programming,

Software Engineering

ACM ACTIVITY: "Workshop On Internet of Things"

This workshop was conducted by I3indya, wherein the guest speaker was Mr. Fazal Khan who insisted that the focus should be on basic learning. VIT was the Zonal Centre for this workshop. This workshop was interactive and student driven with the motto being the ways to apply the embedded system technology by using embedded C. The software and the kits were provided to each group so that they can make devices using GSM module. . There was a competition on the second day and the winners were selected to participate in a tech-fest conducted by them later at IIT-B. The speaker initiated the workshop on 1st October 2016 with basic terms and pre-requisite information needed for this workshop as well as for future use wherein he gave information about power supply and the terms like microprocessor and microcontrollers. He supplemented this with an example of a microcontroller such as Atmega8 which uses USART Protocol. The second day of the workshop was infused with a Question and Answer session followed by an explanation of the term relay and relay kit well. After successful connection, synchronization of GSM and relay kit's LEDs. was observed. Furthermore,

he also introduced all the participants to GSM Networks and how calls and message can be made using GSM kit. The participants were replete with new ideas and concepts to apply in their teaching-learning process.

BLOG: Urban Poor

Sitting by the window pane, it was disheartening to see the sunset to be so deceptive. People would find it beautiful, but to me it looked like a carrier of darkness, which has surrounded our lives in ways we can't comprehend. May be we are used to it, like we are used to the absolute oblivion we encounter when we have our earphones on and alienate ourselves from the world around.
Even I am one of those who have found solitude and tranquillity away from people in my own thoughts, maybe we are scared to expose our inhibitions and fears in front of the people who apparently seem to be 'vultures'. Gone are the days when we sat for long hours in our veranda and spoke about the mundane things under the sun, about the existence of life to the new song which just garnered attention. Now the vista is nothing but more money and rave parties. Three drinks down, dancing till our legs hurts, a new friend every night, letting our hair down, not caring about the world literally. But think again, somewhere life becomes meaningless. For me, it is a night I waste from my life, and the thought of it scares me because we have surrounded ourselves to the urban poor things we do...

Shraddha Gupta
(EX-VITian, Batch 2015-16)

Secrets of Excellence

Education is the ability to listen to almost anything without losing your temper or your self-confidence.
-Robert Frost

Department of Computer Engineering

Once again, Vidyalankar Institute of Technology's Computer Society of India (CSI) Chapter is being conferred with the prestigious "Best Accredited Student Branch Award" at the forthcoming CSI Annual Convention 2016!! The Award Ceremony was held on Saturday, 10th December 2016 at Hotel Le Meridien, Coimbatore.

The Institute's CSI Chapter had done the Institute proud by bagging the "Best Accredited Student Branch Award" for 2013-14, as well. Led by VIT-CSI Convener Prof. Suja Jayachandran of the Dept. of Computer Engineering, the CSI Chapter has conducted events such as Latex Workshop, Workshop on Python, Database connectivity Seminar, Photoshop Workshop and Competition and CSI Membership Drive, all of which saw enthusiastic participation from students in this semester.

ACM-VIT Student Chapter conducted a 2-day Workshop on IoT (Internet of Things) in collaboration with i3indya Technologies under Prof Yogesh Doulatramani - Convener

Photoshop Workshop and Competition by CSI

Adobe Photoshop is a graphics editor which can edit and compose raster Images in multiple layers and supports masks, alpha composting and several color models. A workshop in which a competition was conducted on 8th October from 9 am to 5 pm for the students to acquaint them with the various applications of the Photoshop software.

The workshop was conducted by Akshay Dangre, a T.E. student and also the chairperson of CSI-VIT. It started with the introduction of Photoshop and its relevance in today's day and age.

The competition provided to them. They weren't allowed to use any other graphics except for the ones provided to them. Their creativity and photoshop skills were required by the participants to make a poster for any festival with the help of the images, fonts and the wallpapers. Their creativity and photoshop skills were put to test. Around 42 Students participated in this workshop.

Campus Activities

Mr. Arvind Narayanan, Research Scholar, University of Minnesota, presented an expert speech on "Hybrid Systems" for BE students and on "INTERNET THE LIFE" for TE Students. Illinois Institute of Technology conducted on spot provisional admission for MS in the month of December 16. Internship opportunities were offered by creative tabs to Phaneesh B, Sonali A, Kunal B, Shubam A. from BE CMPN department.

Suraj P, Unmesh D, from TE CMPN successfully completed 2 day workshop on Junos OS conducted by Juniper in association with TCS.

Computer Laboratory

Upcoming events

Gadget Guru will be conducted by CESA in the month of January.

CSI will conduct seminar on Knowledge Session on Digital Marketing in January.

CSI will also conduct Android App Development competition in the month of February.

CSI will conduct workshop on Virtual Reality in the month of February.

"**Welcome every morning with a smile. Look on the new day as another special gift from your Creator, another golden opportunity.**" —
Og Mandino

Talks Delivered By Prof. Dr.Saurabh Mehta (HOD)

- "**Improving Teaching – Learning through social media and open source platforms**" S.Mehta, HOD MEET TCET, 21st December 2016, Mumbai.

- "**IOT**", S.Mehta, SKEP Sessions, IEEE Bombay Section, IIIT, Naya Raipur, 22nd October 2016

- "**Beyond 4G and 5G**," S.Mehta, SKEP Sessions, IEEE Bombay Section, IIIT, Naya Raipur, 22nd October 2016.

- "**Game Theory and Wireless Networks**,"S.Mehta, TEQP-II Sponsored FDP on "Advances in Communication Technology, Gandhinagar Engineering College, Gujarat, 19th October 2016.

Publications

1."**Performance Analysis & Design of MIMO OFDM System using Concatenated For-ward Error Correction Codes**",A.Agarwal and S.Mehta, Accepted for publication in Journal of Central South University, Manuscript ID no 160058, September 2016, (SCI-E).

2. "**Position and Temperature feedback control system for two minor Fabry perot laser resonator**"" Aarathy E.R. ,Arpit Rawankar, Sreeman N. in RACEM –2016.

Introduction to VHDL Programming

A Guest lecture was organized for SE EXTC students on the topic, "Introduction to VHDL Programming" on 10th October 2016. The speaker for the occasion was Dr. Jonathan Joshi, CEO, Eduvance company. He gave an introduction of various hardware description language available in the market, their uses, advantages and popularity in the market.

Faculty Development Program

A faculty development program on "Remote learning and automated evaluation technologies" was conducted by Eduvance company on 14th December 2016 jointly organized by EXTC & ETRX departments. In this program, a hands-on session was done to give faculty members an insight on "ARM MBED" platform used to develop products under embedded systems.

Workshop

A Workshop on lab view and Data Acquisition system was organized by the Electronics and Telecommunications Department on 8th December 2016. The guest speaker were Mr. Lakhan Bajaj, Field Application Engineer.

Another one day workshop on "Test and Measurement" was organized by Department of EXTC & Electronics in association with "Automate Process Control" on 13th December,2016.

Achievements

Prof. Dr.Saurabh Mehta, Prof.Vibha Wali and Prof.Beena Ballal bags SAP Excellence Award of Rs. 5000/- by IITB (Top 251 Performer out of 4500+ participants) for ICT Course completion.

Prof. Dr.Arpit Rawankar is invited as a speaker to deliver a talk on Nano photonics at Sardar patel college of engineering for one week STTP on "Nanoscience & Nano-technology :Fundamentals, Synthesis and Applications".

> **"Discontent is the first necessity of progress. "**
>
> **—Thomas Edison**

Department of Electronics Engineering

Workshop On ARM MBED, VIT

The workshop on embed system was held on 14th Dec 2016 to show the use of Mbed online platform for programming and debugging ARM based systems and specific programming of KL25Z chip based on ARM cortex MO+ architecture. Procedure to download and run program on the ARM based hardware were elaborated along with programming ARM based systems with the use of Remote Laboratory Concept and also the use and comfort of using Remote lab. A brief exposure and working of Grade ME application for automated assignment issue and grading. Demonstration of a Virtual Reality based system for understanding of electronic components, instruments and kits was also done.

Workshop on Electronic Design 2016

An electronic design workshop was conducted by Mr. Anand Paralkar (Manager, Technical Activities, Vidyalankar Consultancy Services) to expose the faculty members of all departments to a hands on experience of electronic design flow. As an outcome of the workshop, a selective tone generator was designed. Faculty members got experience in use of simulation tools, switching power voltage regulators, programming and designing micro controller based circuits, designing customized inductors, KiCAD schematic and layout making processes and so on. The workshop was highly fruitful in the manner it led to complete revision of design and fabrication process in electronic design industry.

Secrets of Excellence

"One should not be afraid of defeat & victory, whatever comes in way of duty one should accept it because it is true and that is true."

About: There would be several events organized by students' bodies of the Biomedical department including BMESI and BMSA. This includes Impulse-A Biomedical Technical Festival and Arduino Project based workshop.

Organizer: BMESI and BMSA Committee

Where: VIT, Mumbai

When: February,March, 2017

Biomedical Engineers in Defence Sector

Engineers are needed who can develop new weapons and countermeasures within an ethical context and resist pressures to use their knowledge base to develop unethical or illegal bioengineering systems.

Another avenue for biomedical engineers is in the development of biomimetic systems. The focus of this area is in developing autonomous underwater vehicles that are inspired by the efficiency and propulsion of fish and other aquatic animals. These complex systems can be launched from submarines or warships and can be used for novel applications like subsea maintenance, surveillance & reconnaissance and even the ability to engage a target when required. These systems resemble their biological counterparts and are hard to detect on the radar due to stealth capabilities.

(This article is contributed by our student Mr. Suyog Pathare who is currently in Final Year Biomedical Engineering)

Department of Biomedical Engineering

Workshop on "Application of Radiation and Radioisotopes in Diagnosis and Therapy of Cancer"

Department of Biomedical Engineering with the help of Vidyalankar Consultancy Services had conducted a One Day Workshop on "Application of Radiation and Radioisotopes in Diagnosis and Therapy of Cancer " in collaboration with Society for Radiation Research (SRR) on Saturday 15th October,2016. Dr. Badri N. Pandey, Head, Radiation Signalling and Cancer Biology Section, BARC who is also the Secretary of SRR had been instrumental in arranging this workshop.

Eminent speakers were Dr. S.K. Shrivastava, Head, Radiation Oncology Department of TMH, World renowned Radiation oncologist Dr.Nagraj G. Huilgol. Other Speakers included Dr. Amit Kumar from Radiation Biology & Health Science Division, BARC, Dr. Grave Samuel (Ex-BARC), and Dr. Savita Kulkarni from Radiation Medicine Centre (RMC), Parel.

Speakers gave new insights on Radiation Effects, Brachytherapy of Cancer, Radio-pharmaceuticals, External Beam Radiotherapy of Cancer and Radioimmunoassay based Diagnostic Techniques. The session came to a conclusion with a positive feedback from the participants.

Student Speak

Let's face it. Like most of you, VIT had me speechless at it's magnificent infrastructure. But being in Vidyalankar, you just can't say that and get away with it. There's something more to it, be it professor's experiences and their goodwill, be it varied committees to explore your talents. It gives you this beautiful platform to grow, nurture, evolve and embrace your mistakes and failures. It let's you experiment your analytical and technical skills with extracurricular activities.

Prof. Nyaydhish HOD of FE, has his way of sending chills to your spine through his Powerpack speeches. First day at VIT, I remember, he gave us some really detailed and interesting information about biomedical field, good enough to motivate you for a Powerpack start and the journey till now has been great. Another delightful moment was when our project "Solar Powered Charger" was selected for Tantravihar under the guidance of Prof. Arunkumar Ram. Being in VIT and especially being a Biomedical engineer aspirant has been quite an experience within itself and after all I've been through, if this is not a resemblance of masterpiece , I don't know what is. Here's to hoping and believing that for better or worse, more or less, I never stop learning from it.

Nikita Pai, Bio-medical

> **"I have not failed. I've just found 10,000 ways that won't work "**
> **—Thomas Edison**

Department of Management Studies

Prof .Trupti Naik

One of the greatest gifts you can give yourself, right here, right now, in this single, solitary, monumental moment in your life– is to decide, without apology, to commit to the journey, and not to the outcome.

Domain Knowledge, though important, keeps on changing with the times. What remains constant are the set of timeless values that needs to be inculcated, imbibed and nourished in the future generation. We, at Vidyalankar, lay more stress on values. It creates a strong learning environment that enhances academic attainment, and develops students' social and relationship skills that last through-out their lives. It establishes a parallel system of student achievement based on their values and behaviour, complementing the more limited assessment of academic attainment.

In addition to domain knowledge that industry needs, this is attempted by setting examples and demonstrating skill sets. We trust our students deliver to the industry not only what it currently needs but what it may need in future.

HR Conclave

The MMS Department of VIT organized its first HR Conclave on 1st October 2016. This event was called *Digital Transformation in Human   Resources*. It was organized by Prof. Smita Mukherjee and Prof. Shrabani Bhattacharjee with the support of the student council members. The event brought together four industry leaders under one roof for a healthy and open exchange of ideas which will surely enhance the future of our students. It was divided into two sessions. First session was conducted by *Mr. Vijay Sinha (senior VP HR, JSW) and Mr. Sahil Nayar, i*s currently associated with KPMG in India and partners with their Tax Practice.

TIMES Ascent Mega Job Fair

MMS Department of Vidyalankar Institute of Technology has provided this platform by successfully hosting a TIMES ascent MEGA JOB FAIR on   Saturday, 3rd December 2016. Ms. Soni Khushlani, Deputy chief manager at Bennett, Coleman and Co. Ltd. (Times Group) **Mr**. Radhakrishnan Pillai who is also the author of books like "Corporate Chanakya" ,Chanakya's "7 Secrets of a Leader", to name a few. Ms. Soni Khushlani visited as the representative from TIMES JOB. She is Deputy chief manager at Bennett, were present from different sectors like Banking, IT, Hospitality etc. Each company were having one coordinator from MMS 2016-2018 batch. They were responsible for making arrangements required by the companies and helping them as per their requirements and carrying out the recruitment process   smoothly. Mr. Radhakrishnan Pillai focused on 3 main aspects: how to face corporate world, how important attitude is and the key role played by attitude at work.

He encouraged students to excel in their respective fields and gave his regards to all.

ZEE Entertainment

VIT MMS department organised a session on 8th October on the topic "Overview Of Media Industry and Opportunities".Sharada Sunder, currently the Executive Vice President , Regional Channels ZEE Entertainment delivered the speech.

Editors:

Prof. Utpala Das and Prof. Micky Barua, Department of Humanities