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My Dear Students,

Everything that has a beginning must have an end, but in every end, there is a new beginning. The time has arrived when you will move ahead from the First Year Engineering department and join your respective core Engineering departments. There was so much that we all have experienced together. Along the way, you might have gained some valuable lessons.

You are a historic batch - our Institute's very first batch to join us after the Institute has been granted autonomy. Together we took the very first step towards the implementation of an autonomous system of learning and teaching. It was a paradigm shift for you all, and for us as well. Adjusting with the autonomous system in the first semester and then adapting to the academic slot flexibility in the second semester, with no substantial break in between. But your adaptability is commendable!

Everything in life is not going to be predictable. Even as you move ahead there will be many situations where you will have to take crucial decisions and adapt to the circumstances. This academic flexibility phase that you have gone through will help you to strengthen your readiness to welcome change.

To be successful in every sphere a strong foundation is always important. You should always make sure that you build a strong foundation for yourself. Along with the extra curricular activities, strong academics is what makes a strong foundation for you. So, never keep a casual attitude when it comes to academics and learning; later you will realize that it will make all the difference in your career ahead. I appreciate your participation in various co-curricular activities and general education courses. Besides participating in the various activities with full enthusiasm, you also scored well in your academics in both your semesters.

As together we successfully complete the First Year of your Engineering journey, I would like to congratulate you all! I see the potential in all of you. I appreciate your dedication and hard work as students of FE. As it is said, "Diamonds are formed under pressure but never forget they are not formed overnight". I believe that your First Year experience will help in polishing out your edges as each one of you will sparkle as diamonds!

It has been a beautiful and memorable journey with you all, and now as you enter another year of engineering, I, and my team of First Year faculty wish you good luck in all your endeavours!



PROF. SONALI BORKAR
IN-CHARGE, FIRST YEAR ENGINEERING



Life is like riding a bicycle.
To keep your balance, you must keep moving.
- Albert Einstein



“Gearing Up For Exams”

This event “Gearing Up For Exams”, was organized by VIT’s Department of First Year Engineering, with the objective of guiding students to maintain good mental health by learning how to manage stress, especially during their exams, to help them use their potential to the fullest and to be optimistic. Dr. Kirti Potkar, was the speaker for this event and shared some important ways to maintain balance in life. She shared through various collaborative and fun activities that students should be optimistic. The event threw light upon the negative effects of stress and the importance of mental health in our lives. It is important to talk about it as it is still a taboo and people hesitate to discuss about it and view issues related to it as abnormal. There were around 30 students who took part in the session. Students learnt something important and new. They learnt to understand the importance of mental health and how to manage stress. They were able to learn to use one’s potential to the fullest. They learnt to maintain balance in life and to understand the importance of being optimistic and trying out different solutions. All were educated about stress management and mental health through light and relaxing activities.



“FDP- Towards Healthy Living”

A one week “Faculty Development Program”, was organized by of Vidyalankar Institute of Technology’s Department of First Year Engineering. This program had different speakers who spoke on how to maintain a healthy life. Ms. Somrita Chatterjee, EQ Coach, Equipoise Learning Pvt. Ltd., Mr. Manohar Bhatia, Expert from Yoga Institute, Mumbai, Dr. Dinesh Kumar Nair, HOD, Department of English, V.G. Vaze College, Mumbai, Mr. Bhupesh Dave, Motivational Speaker and Dr. Kirti Potkar, Counsellor, VIT, were the speakers for this program. Different sessions were held during the program such as self-awareness, stress-management, mindfulness and yogic practices. This event was held from 12 June to 16 June. There were many faculty members and non-teaching staff members who took part in the session. They were all informed on the necessity of maintaining a good health in life.



Department Faculty

Prof. Renu Mann
ASSISTANT PROFESSOR
Applied Sciences



EDUCATIONAL QUALIFICATION:

M.Sc. (Physics)
Nagpur University,
Nagpur, 1986

B.Ed. (Gold Medalist)
Nagpur University,
Nagpur, 1987

WORKING EXPERIENCE:
Teaching Experience:
26 Years

Prof. Vishwas Patil
ASSISTANT PROFESSOR
Applied Mathematics



EDUCATIONAL QUALIFICATION:

M.Sc. (Maths)
Shivaji University,
Kolhapur, 1998

B.Sc. (Maths)
Shivaji University,
Kolhapur, 1996

WORKING EXPERIENCE:
Teaching Experience:
21 Years

Workshop on Energy Audit

Prof. Ishan Upadhyay of Department of First Year Engineering, VIT was the resource person of this event. This workshop was organized to achieve and maintain optimum energy procurement and utilization, throughout the organization; to minimize energy costs/ waste without affecting production & quality and to reduce the impact of energy generating facility on an environment. 'Energy Audit' aimed to provide a platform for the verification, monitoring and analysis of use of energy. There were around twenty-five people who took part in this session. The students were educated about the benefits of the energy audit.

They were also provided with information about the career opportunities in this field. The students were taught to make intelligent and calculative decisions in utilizing the available energy resources to make them more responsible individuals.



Workshop on Digital Transformation



This workshop was organized by Department of First Year Engineering, VIT, in collaboration with Tata Consultancy Services (TCS), for the First Year Engineering students. The concept of 'Cyber Threats' and its detection was explained by the experienced speaker Mr. Prasad Kaginkar, Technical Analyst, TCS who is also a VIT alumnus. This workshop helped to demonstrate an increased understanding of the ethical and unethical technical practices on the internet. It also highlighted the implication of security related measures while

using internet and other technical applications. It was a highly interactive session which informed the attendees about cyber security and probable security measure.

Student's Speak



My Experiences at VIT

**Renuka Kadam, INFT A
First Year Engineering**

I've spent more than six months here at VIT, and it has been great. Initially, I was a bit skeptical about my college life, but being at VIT has given me a sense of relief.

The first thing about VIT that caught my eye was its infrastructure. The design and architecture of VIT is amongst the top in Mumbai. Not only that, but the faculty members are also supportive. The teachers here have always helped and provided the right guidance.

One thing I love the most about VIT is that the students here gain knowledge and experience and not just bookish knowledge. It has given me an opportunity to learn more about technical topics and many other things. The environment here is also very welcoming. It feels good to celebrate all the festivals. We often get to experience fun activities arranged by the council.

Being at VIT has made me fall in love with learning, whether it's technical subjects or working on my overall personality. I always feel the need to grow. I am sure that this college will help me in giving my best.

My Experiences as a fresher

**Gaurav Kale, EXCS A
First Year Engineering**



Studying engineering from a good engineering college was exciting as it was the first time I was going to college after my 12th. It didn't take time for me to adapt to the place.

Here, students are allowed to play games when there are no lectures to freshen their minds. The library is open for students from 9 am to 9 pm which has been of great help as I live very far so I study in library till 9 pm after lectures which has impacted my studies in a positive manner.

The infrastructure is pretty good compared to lot of other famous colleges, especially the labs and library facilities, the den, the canteen, the resting areas, playground, basketball court and cricket ground.

The most important and best thing in VIT is the faculty. They are very approachable and very friendly.

Exams are like a festival and not a burden. VIT has special placement cell for students and for those who want to pursue education in foreign universities VIT has the admit abroad facility.

Up till now, my experience at VIT has been pretty good, hope it remains the same.

Department Activities Faculty Achievement

Professor Ameya Nyayadhish Published a Paper

Prof. Ameya Nyayadhish successfully published a review paper titled "Technology Roadmap for Flexible Sensors" in a peer-reviewed journal titled "ACS Nano", 2023, 17, 5211- 5295 which has impact factor of 18.023. The gist of the concept is, humans rely increasingly on sensors to address grand challenges and to improve quality of life in the era of digitalization and big data. Through such collaborative efforts, scientific breakthroughs can be made sooner and capitalized for the betterment of humanity.



Professor Rupesh Parthe Published a Paper

Prof. Rupesh Parthe successfully published a research paper titled "Minimum Quantity Lubrication An emerging technology for sustainable development" in the journal International Journal of Scientific Research in Engineering and Management (IJSREM) on Volume 07, Issue 06 June 2023 5295 which has impact factor of (SJIF Rating) 8.176. The findings of this study show that MQL may be an economical and environmentally compatible lubrication technique.



Ideathon Season 2

The Department of First Year Engineering organized an event 'Ideathon- Season 2', to develop a spirit of innovation and entrepreneurship in FE Students. The theme for 'Ideathon' was "Make in India". It challenged the innovative minds of the students of First Year Engineering. The students presented their innovative thinking ideas, concepts and new business ideas by using emerging technologies. An environment of innovation was created, and spirit of innovation was promoted right. The 'Ideathon' had student teams, mentored by faculty, to develop leadership, team skills. The winners of this event were Omkar Dubey and Varun Pai.



Dr. Megha Bharati received an Award on Journalists Day

Dr. Megha Bharati was conferred with the prestigious 'Pandit Yugal Kishore Patrakarita Samman' - award on Journalists Day, 30 May.

Dr. Bharati received this award from Pandit Yugal Kishore Samman Trust India, for her fearless writing along with her dedicated contributions to the field of journalism.



Site Surgeons: Workshop on Web -101

This workshop titled 'Site Surgeons : Workshop on Web - 101', was organized by Department of First Year Engineering, VIT. This workshop was designed to provide participants with a comprehensive understanding of web development concepts, tools, and technologies. and to introduce participants to the fundamentals of building websites using HTML, CSS, and JavaScript.

Participants also learnt about frameworks and libraries such as React and Angular. It covered topics such as website structure, responsive design, web accessibility, and basic programming concepts. The participants had the opportunity to work on hands-on projects to practice their skills. The workshop was suitable for beginners as well as for experienced developers with knowledge & skills.



Editor

Dr. Megha Bharati