Gaurav Tirodkar

yogesh inamdar

Contents

VES gets accredited by ARIIA

-Mansi Kasar

MIC   MHRD   AICTE

ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS

Certificate of Appreciation

This is to certify that

Vivekananda Education Society, Mumbai

is categorized as 'Band B' institution (rank between 26-50) in category of 'Private or Self-Financed College/Institutes' in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2020 announced on 18th Aug 2020.

Dr. Anil D Sahasrabudhe   Sh. Amit Khare   Dr. Abhay Jere
Chairman, AICTE   Secretary (HE), MHRD   Chief Innovation Officer
MHRD's Innovation Cell

The Certificate of Appreciation given to Vivekanand Education Society

On the 18th of August, 2020, Vivekanand Education Society was successfully accredited with the grade of "Band B", which simultaneously **defines our college within the strong ranks of 26-50**. This ranking was stated under the sub category named as 'Private or Self-Financed Colleges/ Institutes'.This accreditation was announced by the prestigious body of Atal Ranking of Institutions on Innovation Achievement, also known as the ARIIA.

From the Principal's Desk

Education plays a fundamental role in the overall progress and development of students. The institution firmly believes in imparting knowledge and inculcating and nurturing basic human values, culture, and adaptability to its students so that they soar higher in the ladder of success of life. This global crisis is a great reminder that the world is moving to more virtual learning and working spaces. The lockdown period has given us an opportunity to enhance our knowledge and widen our horizon of minds. It's a beautiful opportunity to revamp the teaching-learning process too where high level of experience and exposure is given to students in a supportive and conducive environment. Our teachers and students have promptly adapted to the changing scenario and commenced the classes of the new academic year from **3rd August 2020** in completely **online mode** using **Google meet and Google classroom**. I am optimistic that we would be able to conduct face to face classes soon. Till then I expect that both teachers and students will enthusiastically participate in online lectures and other activities.It gives me an immense pleasure to inform you that **VES** is ranked in the **Band 'B' (26th-50th)** in **ARIIA 2019** ranking under the private institutions' category. **Ministry of Education, Govt. of India** has initiated '**Atal Ranking of Institutions on Innovation Achievements (ARIIA)'** to systematically rank education institutions and universities primarily on **innovation-related indicators.**

ARIIA considers all major indicators which are commonly used globally to rank most innovative education institutions/ universities in the world. ARIIA primarily focused on six main parameters Indicators Weightages Programs and Activities on IPR, Innovation, Start-up and Entrepreneurship, Pre Incubation & Incubation Infrastructure & Facilities to Support I&E , Annual Budget Spent on Promoting and Supporting I&E Activities, Courses on Innovation, IPR and Entrepreneurship Development, Intellectual Property (IP), Technology Transfer and Commercialization, Successful Innovation and Start-ups & Funding Innovation & start-ups. **VESIT**, **VESCOP**, **VESP** and **VESIM** together participated as **VES** in **ARIIA ranking survey.**

Hope all of you are acquainted with the advent of the new **National Education Policy (NEP),** 2020. Its purpose is not just the creation of greater opportunities for individual employment, it aims at a larger picture of **creating a productive, innovative, progressive, and prosperous nation.** It envisages a quality higher education that can develop thoughtful, well rounded, and creative individuals. In a nutshell, education will be holistic, more student-centric and flexibility will be its hallmark. For instance it provides flexibility for an engineering student to opt for some courses in philosophy, law or even music, along with his main stream engineering subjects. The implementation of this policy is expected to be completed by 2030. I hope all of you will appreciate this concept and welcome this change in policy.

Having appreciated this revolutionary change,
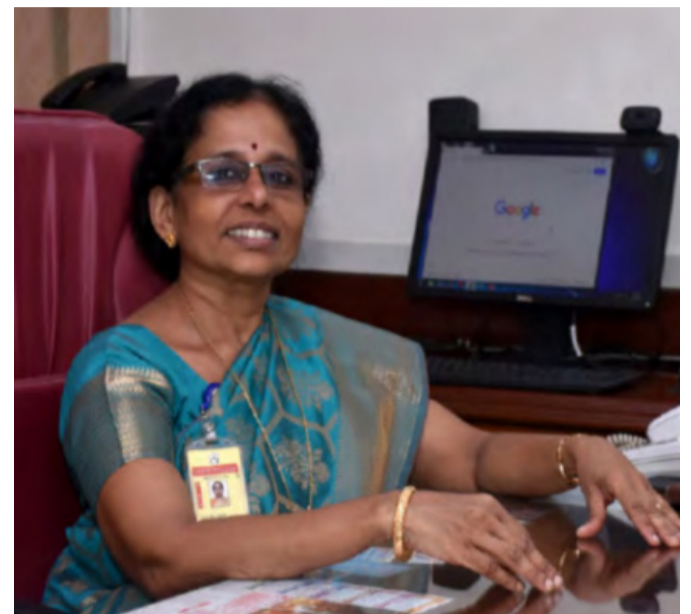
Dr. J. M. Nair, Principal VESIT

I would like to add a quote of **C. S. Lewis:** *"You can't go back and change the beginning, but you can start from where you are and change the ending."* Let us now dwell upon the new initiatives for **the present second year students (A.Y. 20-21)** and related existing activities for all VESIT students in this direction.

As all of you know, the present second year students are studying in **Choice Based system**, where they can **choose subjects from Institute Level Electives and Departmental Electives.**

From this academic year, **AICTE** has introduced the **concept of Honors Degree** and **Minor Degree. Honors Degree** allows courses in **emerging areas** as **specialization** from the **same department.** The nine emerging areas identified are Artificial Intelligence, Internet Of things, Robotics, Cybersecurity, BlockChain, Quantum Engineering, Data Sciences/Big Data and Analytics, 3D Printing and Design, and Augmented Reality/Virtual Reality. The **minimum credits** to be earned for such courses are **16-18** and will be mentioned as specialization in that particular area. **For instance, doing extra credits of IoT by a student of Electronics Engineering, can earn B.E (Hons) Electronics Engineering with specialization in IoT.**

Minor Program in **Emerging areas** is also allowed, wherein a student of **any department** can take courses with minimum credits in the range of 16-18 and get a degree with a minor **from another department**. **For example, doing extra credits of Big Data/Data Science, a student of B.E (Electronics) can earn B.E Electronics with a minor degree in Big Data/Data Science.**

Detailed guidelines regarding eligibility, the list of the four courses prescribed under each emerging area and its syllabus will be issued by the University of Mumbai and will be intimated to you in due course of time.

Another initiative of **AICTE**, which was implemented last year was the introduction of the **Student Induction** Program in the **first year**. Apart from the familiarization of the fresh students with the activities of the institute, both curricular and extracurricular the concept of **Univer-**

sal Human Values (UHV) also was introduced, in an attempt to provide holistic education. The UHV concept is about living with continuous fulfilment, which is the basic human aspiration and plays a significant role in the shaping of one's world-view, mindset, perspective, and values.

The key to future job opportunities will be integration of the technologies in diverse fields and shelf life of any new technology will be of average 3 to 5 years. As the world is heading towards a gig economy characterized by freelance work, every student has to compete with himself and make him worthy of the assignments. Therefore, lifelong learning and the ability to self-learn will be the key driver of success for an individual in the future.

Industry thought leaders have suggested that the emphasis should be, not on making people for the world, but making products for the world in the post COVID era. A bright future for small industries unit with better efficiency is also predicted compared to big industries with mass production. All these facts point out that the students should develop their problem-solving skills, ability to self-learn, and cultivate the habit of working in teams.

VESIT has been conducting "Looking Beyond Syllabus" projects for Second and Third year students and "Awakening the Scientist" for first year students and "Tinkerers Lab" for all students, which provides opportunities to develop their problem-solving skills and ability to work collaboratively. A UHV Cell will also be constituted in our institute from this academic year. All students are requested to participate in these co-curricular activities and reap their benefits, for a bright future.

This academic year, the University of Mumbai has also implemented a new concept of Skill labs for second year students. Skill labs are specially designed "application-oriented practical sessions" which focus not only on providing knowledge but also on building attitude and self-learning capability along with building skills. Another initiative is the introduction of Mini projects in the syllabus for second year students. I urge all the students of second year to participate in Skill labs and Mini projects wholeheartedly and consider it as the requirement for building a foundation for their future and not as a syllabus requirement.

My dear Students, grab all the opportunities available to you, enjoy your journey of learning to learn yourself and to work along with everyone, "Sabka Sath, Sabka Vikas"

However difficult life may seem, there is always something you can do, and succeed at. It matters that you don't just give up. - Stephen Hawking

VESIT Technocrats Conquer SIH 2020

-Sristi Kushwaha

Team SPARX and Team Digital Fortress emerge victorious at the National level Smart India Hackathon (SIH) 2020- software edition, held online. Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving. It aims to promote out-of-the-box thinking in young minds, especially engineering students from across India.

The first step to contest in this competition is to clear the internal campus hackathon conducted by the SPOC of the institute, Mrs. Rohini Temkar, where five best teams and two waitlisted teams are finalized for the next round. SPOC then recommends the selected teams for SIH 2020 Software edition, out of the five selected teams per college, four can be chosen from blocked problem statements and 1 can be chosen for the Student Innovation category. Team leaders of the selected teams are supposed to register at the SIH portal to submit ideas for their problem statement for the SIH2020. The qualifying teams from the presentation round enter the final round for competing against teams from all over India. The final evaluation round of SIH 2020 was intended to be held on 14th March 2020 but due to the ongoing pandemic of COVID-19, the event was postponed.

SIH 2020 Grand Finale proceeded for 3 days, 1st to 3rd August, from 8:30 am to 9:30 pm. Each morning mentorship sessions were conducted and the evenings were meant for the evaluation session. The sessions were orchestrated through Google meets where each of the teams was assigned with their own distinctive Google meet ids and slack channels for continuously monitoring their progress. SIH mentors, also the judges for the respective teams, provided them with new features or attributes that were required to be implemented for the next evaluation session.

Team 'SPARX' :

The Problem statement given to the team 'SPARX' by the Government of Puducherry was a job recommender system, their Nodal centre being Vel-tec, Chennai. They skillfully designed an end-to-end recruitment system wherein job applicants had to take a series of comprehensive tests in which a 360-degree analysis of their profile is performed. At the end of the analysis, the system generates suitable job recommendations for the respective candidates according to their profile. On the company side, they constructed a talent acquisition system where companies would be recommended to the candidates based on their skill requirements. Mr. Amit Singh, Assistant Professor in the IT department, was their college mentor and Mr. Sridhar Patnaik was the as-signed industrial mentor for the team.

Team Members:
- Khushboo Chandani (Team Leader)(BE IT, 2020 Batch)
- Ujala Jha (BE IT, 2020 Batch)
- Juyee Sabade (BE IT, 2020 Batch)
- Sanjay Janyani (BE IT, 2020 Batch)
- Sahil Sadhwani (BE IT, 2020 Batch)
- Ruchika Motwani (BE IT, 2020 Batch)

Team 'Digital Fortress' :

Sakshy-towards crime-free Bharat was assigned to the team 'Digital fortress' by the Government of Madhya Pradesh. The Nodal centre appointed to the team was Galgotias University, Greater Noida. The team built a Converter of handwritten documents into scanned images or photographs in any format to legible text documents using AI, extracting important and critical information into the database. The analytical tools were used to identify the critical information available on the documents and were stored along with the identity of documents, crime numbers and thus linking it with all the attributes of the crime through this primary key. By this leads of investigation would be identified and pushed to the investigation officer while the evidence would be saved with #value along with who would prove it in court. Digital Fortress was mentored by Dr Anjali Yeole, Assistant Professor in the Computer department, and Mrs. Mannat Doultani was the industrial mentor.

Team Members:
- Gayatri Patil (Team Leader) (D17B)
- Pragya Choudhary (D17B)
- Yash Mate (D17B)
- Gaurav Tirodkar (D17B)

Team Digital Fortress: Left to right and top to bottom- Gayatri Patil (D17B), Pragya Choudhary (D17B), Yash Mate (D17B), Dr Anjali Yeole, Assistant Professor in Computer Department, Gaurav Tirodkar (D17B), Pooja Nagdev (Assistant Professor in Computer Department), Deepak Tejwani (D17C), Kuldeep Khasla (D17B)

- Kuldeep Khalsa (D17B)
- Deepak Tejwani (D17C)

All the teams had to upload pictures of their mentoring sessions as well as the evaluation sessions on their social media accounts. Team SPARX was amongst the two teams that were selected for the interaction with MHRD's Innovation Cell Chairman Dr. Abhay Jere, Chief Innovation Officer (CIO) for the Ministry of HRD, Govt. of India. The interaction was essentially about the smoothness of the process of the event and if there were any problems faced by any of the teams.

SIH 2020 was concluded on the 4th of August with the announcements of winners on the Youtube live stream. Both the teams from VESIT were amongst the crowned winners and received a grand cash prize of Rs. 1 Lakh.
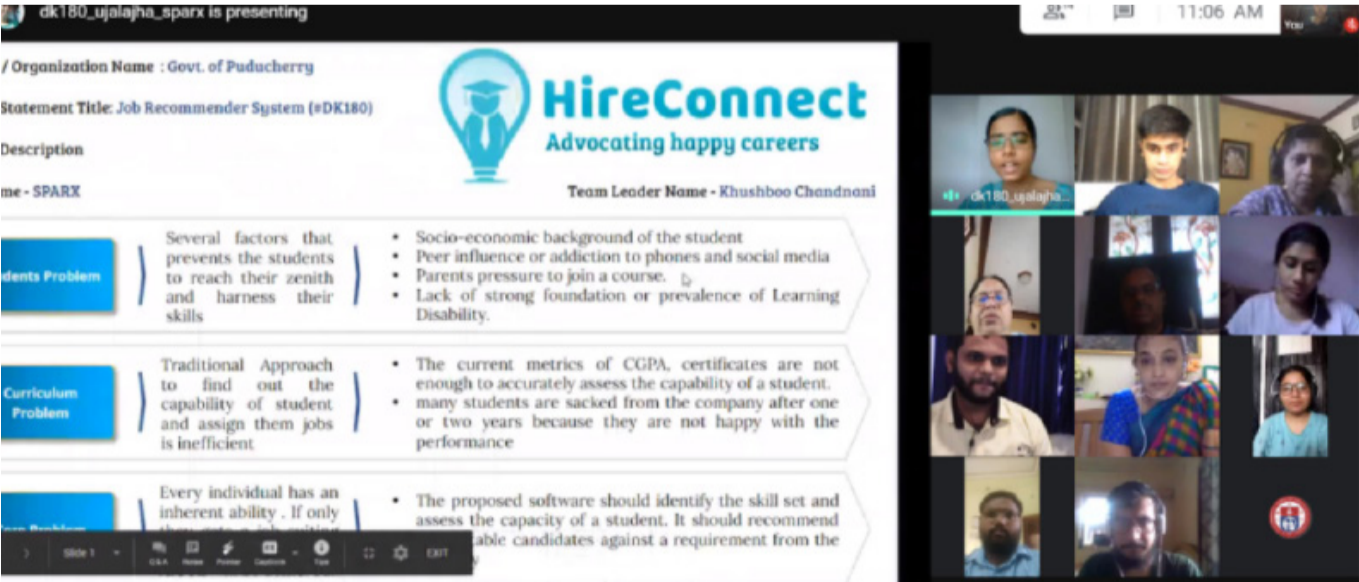
Team SPARX presenting Hire Connect, a job recommender system.

Code For Good : Filtering the Good Code for the Greater Good

-Anushka Kulkarni

Code For Good is a hackathon conducted by the **'JP Morgan Chase & Co.'** , where participants brainstorm on how Non Profit Organizations can solve a challenge that they're facing, and develop technical solutions to tackle real world problems and challenges faced.

This hackathon is a part of the hiring event of the organization.This hackathon was conducted over four days starting from 23rd July to 26th July. After clearing a coding test round and PRVI round (Personal Recorded Video Interview) around 500 students from different colleges from all over India became eligible to participate in this hackathon.

It was a proud moment for VESIT, 41 students of its cleared the first two rounds and were selected to be part of this Hackathon, after which, twenty three students received placement offers from the much sought-after company.
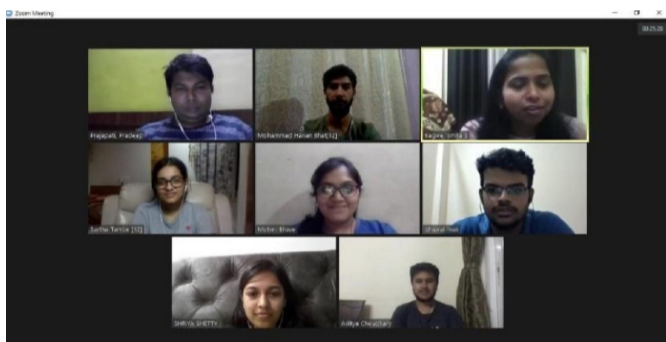
Winning Team for 'Janaagraha' L-R : Top to Bottom : Mr Prajapati Pradeep, Mohammad Hanan Bhat, Ms. Smita Satam Bagwe, Sartha Tambe (D17A), Mohini Bhave (D17A), Dhawal Mali, Shriya Shetty, Aditya Choudhary

This event was held in teams consisting of 6 members, and were formed on the basis of technological skills with students from different colleges being grouped together in an attempt to test teamwork skills and cooperation. Each Team was assigned one **Non-Profit Organisation (NPOs)** out of 4 NPOs namely '**The Nudge**', '**Janagraha**', '**Umeed**', '**St. Jude Child Care.**' and the teams were supposed to find solutions to the given problem statement by the respective NPOs.

There were four winning teams, for each problem statement one winning team was announced. Out of the four winning teams, three winning teams had VESITians as team members. They are BhagyashreeThanwani (D20), Mohini Bhave (D17A) and Sartha Tambe (D17A), Nikesh Suthar (D19A). The teams performed brilliantly and many participants of the hackathon received job offer from the company. Moreover, the winning teams will get I-Pads and other goodies as Prizes.

The problem Statement by the respective NPOs were as follows :

1. **The Nudge:** Required, an application that has all details of online classes available, their timing, and the teachers teaching each class. The application should host an algorithm for successful batch allocation of teachers to slots, and a dashboard that represents which teachers are assigned to which slots.

2. **Janagraha:** An issue reporting system that could be included in the current platform for users to register complaints about civic conditions by simply sending a text. This is not possible right now because the user needs to identify the category of the issue,from around 100 categories (e.g. 'Potholes', 'Street light issue' etc.) for the NGO to further process it which is tedious. This process can be made simple if the description posted by the user is analysed through a machine learning algorithm, the system can identify the category to which the issue belongs to.

3. **Umeed:** Build a solution which digitalizes the existing tedious paperwork process and helps the organisation with the problems like, tracking orders being accepted and distributing the work among women, calculating real time data- compensation to be paid to the women based on their and quality of work delivered etc.

4. **St. Jude Child Care** : Build a feedback system which addresses concerns like; language barrier, Manipulation of feedback, illegible in reading and writing etc; and have maximum amount of Feedback with best accuracy.

Bhagyashree Thanwani (D20) was a Part of the winning team for The Nudge organization's problem statement. Her Team members were Soham Parekh (DJ Sanghavi), Jay Rambhiya (DJ Sanghavi) Mumbai, Deshna Wankhede (Bhopal), Vidya Shanbhag (Bangalore), Korlepara Rohith Sai (NIT kerala) their team was mentored by **Srinivasan Sadasivam** and **Mohnish Dukhande.**

Bhagyashree said "I am so glad that our team won, but I'd like to believe that the experience I got is much more valuable. It's not always about coding, over the course of 48 hours I learned a lot about myself while working in a group of strangers, with whom, I had a lot of fun working together. I felt like my knowledge grew so much and the experience was one of the best I have ever had. My key takeaways from the 1st virtual and the biggest 'Code for Good'
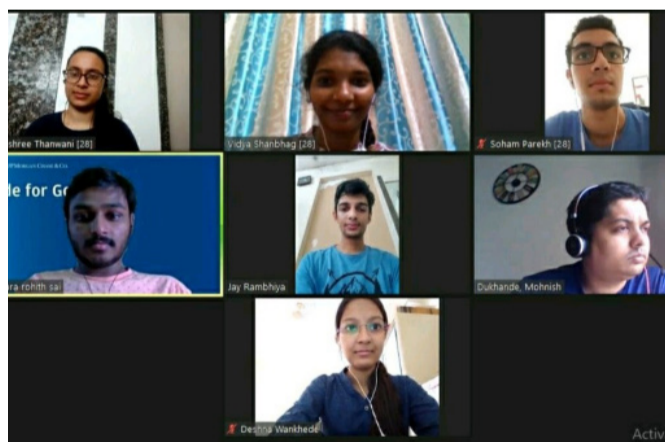
Winning team for 'Nudge' L-R : Top to Bottom - Bhagyashree Thanwani (D20), Vidya Shanbhag, Soham Parekh, Korlepara Rohith Sai, Jay Rambhiya, Dukhande Mohnish, Deshna Wankhede

Winning team for 'Umeed', L-R: Top to Bottom : Rohit Jain, Khushbu Hasija, Nikesh Suthar (D19A), Diksha Singhania, Shreya Oak, Varun V.

event till date are: It doesn't matter how much you know coding or technology, you can still add value to the team. If you have any idea, presenting it, won't hurt a thing. And lastly, Don't give up! If your idea doesn't place well, that only means you've got more work to do to perfect your idea."

Mohini Bhave (D17A) and Sartha Tambe (D17A) were in the winning team which developed a solution for Janaagraha Centre for Citizenship and Democracy. Their team were mentored by **Mr. Pradeepkumar Prajapati** and **Ms. Smita Satam Bagwe**. Along with Mohini and Sartha, their team members were Dhawal Mali, Aditya Choudhary, Shriya shetty Mohammad Hanan Bhat (all from different colleges).

Quoting her experience Mohini said "It was awesome to work with my members, Dhawal, Aditya, Mohammad Hanan who had come up with very innovative and creative ideas. We developed a solution in 48 hours, to register complaints with simple interactions. Our mentors allocated for the event were really helpful and guided us throughout the event. We were grateful that we got to interact with Sumit Arora, the Lead of Civic Tech and Digital initiatives at the Janagraaha Centre, this was fun and a truly learning experience.

Nikesh Suthar (D19A) was a part of a winning team for the Umeed Foundation, their team was mentored by **Mr. Vikas Giri and Sasya Rajkumar Penumarthi** and their team members were Shreya Oak (SPIT)**,** Diksha Singhania (Vellore Institute of Technology), Rohit Jain (DJ sanghvi), Khushbu Hasija (Thadomal (TSEC)), Varun (NIT Calicut). When asked about his experience Nikesh said, " First we were given the topics and then we had to rank topics as per our choice. Then once the topic was finally assigned, we started the discussion. We thoroughly discussed each aspect of our topic and divided the job and started working on it individually. The team mentors were also very supportive throughout the hackathon. And we all were updating to each other about what we've completed so far. Finally on the next day, we had to make a presentation of our project and I was satisfied with the effort we put in and left it up to the judges, but it was exciting to see our team win!"

TechXpert Talks

- Arnab Saha & Gaurav Govilkar

With the onset of this unfortunate pandemic surrounding our lives, online training and sessions have been on the rise. VRC in association with VESIT-AQAC and IIC had organised a series of educational daily sessions with experts with an immense amount of experience along a broad spectrum of on-field topics under the guidance of **Dr. (Mrs.) J.M. Nair (Principal, VESIT) and Dr. (Mrs.) M. Vijayalakshmi (Vice Principal, VESIT).**

These sessions were organized from 22 July to 31 July 2020, and hosted by **Dr. Anjali Yeole** (Assistant Professor, Department of Computer Engineering) on the Webex study-live conference website by Cisco Systems

Session 1: Remote Engineering Education using NI in New Normal. Speaker: Mr. Visweswaran J

JULY 22, 2020
Session 1:

The first session of this Webinar series had **Mr. Visweswaran J.** as the speaker, who is the Territory Manager at National Instruments Bangalore. The theme of his discussion was on how the pandemic has significantly disrupted higher education and how National Instruments came up with a solution to one of the challenges.

The webinar began with Mahalakshmi Pendyala (D14A) who introduced the honorary speaker, Mr Visweswaran J, and handed over the session to him. Mr Visweswaran J. began with an in-depth introduction to the 21st-century buzzwords such as AI, 5G, etc. before introducing the norms and differences between the Normal and new normal education along with the upcoming skills that companies will look for post-pandemic. With a survey using Menti.com, Mr. Visweswaran J. demonstrated the obstacles of online education and talked about how the biggest challenge in front of us is how to ensure continuity of learning by students without compromising the quality in teaching and lab experimentations. Then he introduced how the National Instruments has come up with ELVIS based Remote Lab systems that deliver real-time control and measurement of real electronics circuits in online via LAN and the Internet 24/7 to help compensate for the simulation and practicals which are missing in the current scenario of online teachings.

**Session 2: Industry 4.0 using NI.
Speaker: Mr. K. Jayaranam**

JULY 23, 2020
Session 2:

The second webinar in the series was conducted by **Mr. K. Jayaranam** as the speaker for the day. Mr. K. Jayaranam is the senior Industry Expert, Success Assurance Partner for National Instruments (NI India) Academic Relations with the central theme being Industry 4.0.

Mr. K. Jayaranam essentially discussed the importance of Internet-of-Things and its scenario in the current day and age, before enlightening the students about what is Industry 4.0 and the previous-generation versions of the same along with the progress we have made ever since. Industry 4.0 refers to a new phase in the Industrial Revolution that focuses heavily on interconnectivity, automation, machine learning, and real-time data. It has broad applications and those applications and those applications need a new paradigm in automation. NI offers a platform for realizing and developing the proof of concept solution in the shortest time.

Crucial topics such as the difference between an Engineer and the Engineering degree were discussed with scrutiny while highlighting the significance of Automation today for an engineer.

JULY 24, 2020
Session 3:

For session 3 of the webinar series, **Mr. Ajay Kumar,** Founder, and CEO, Cognition Robotics (Academy Program), National Instruments was the speaker for the day.

For session 3, Mr. Ajay Kumar primarily discussed the aspects of Artificial intelligence in the current day and age. Artificial Intelligence is revolutionizing all fields of engineering. In this session, we were introduced to what is Artificial Intelligence and some powerful architectures for designing AI systems. He went over the architecture of Artificial Intelligence and various acceleration strategies for the same. We essentially were shown how National Instruments and LabVIEW helps in building a full-fledged AI machine.

**Session 3:LabVIEW for Artificial Intelligence
Speaker: Mr. Suraj Ghimire**

July 25, 2020
Session 4:

For the fourth session of the series, **Mr. Suraj Ghimire** from Apple India Pvt Ltd, Hyderabad came through with a very informative webinar on Big Data.

This session, which was conducted between the time slot of 10am to 12 pm, consisted of an interactive presentation on what is Big Data-Spark Streaming with Kafka and simultaneously understanding how it all works in real time. Mr. Suraj Ghimire helped the attendees successfully understand by the end of the session the basic questions of 'What is big data hadoop spark?', 'What is Kafka?' and 'How to work on Kafka and Spark Streaming?'.

Session 4: Big Data-Spark Streaming with Kafka and simultaneously understanding how it all works in real time.   Speaker: Mr. Suraj Ghimire

Session 5:

This talk was presented by VESIT AIA CDC. The speaker for this session was **Mr. Vinayak M. Khandeparkar** (Director-Operations, V.S. Equipment & Automations Pvt. Ltd). He gave an insightful view of how the automation works in the packaging industry. The talk discussed how ideas for machine automation germinate and follow the path of converting those ideas into the ultimate product.

The Speaker, Mr. Vinayak Khandeparkar, explained, through his presentation how small little details have to be taken care of when designing a particular packaging system. The highlight of this session, though, was the detailed video explanation of various semi-automated and automated systems. This session gave a detailed understanding into concept forming, tools & technology and the problems faced in developing automation systems.

**Session 5: Machine Automation in Packaging
Speaker: Mr. Vinayak M. Khandeparkar**

July 26, 2020
Session 6:

Industrial Revolution 4.0 (Manufacturing Sector)Session 6 of the Tech-Xpert talks series was presented by VESIT AIA CDC and saw **Mr. Chandrashekhar Iyer** (Retired as Executive Director, Bharat Petroleum Mumbai Refinery) as a guest speaker. This session was a two-hour informative talk which was held from 10 am to 12 pm. The topic of the day was the most sought after topic in the current industry - 'Industrial Revolution 4.0 (Manufacturing Sector)'. Hon'ble speaker Mr. Iyer gave a thorough presentation on how the Industrial Revolution 4.0, informally known as 'IR 4.0', would shape the growing industry and startup culture in India.

The session was intricately adorned by 'words of wisdom ' by the veteran speaker. Talking about his experiences at Bharat Petroleum Mumbai Refinery, he stressed on the fact that how important it was to flow with the upcoming technology during his days of service. He also spoke about how, under his guidance, an entire automated survey program was made successful. He also recommended that the industries should be keen on supporting the new startups. He also talked about the effect of the current pandemic on the IR 4.0 during the Q&A session.

Thus, the session provided a wholesome insight into the emerging trends of using digitalization in the manufacturing sector for improved operational excellence, safety, health, environment as well as for better project conceptualization and execution.

Session 6: Industrial Revolution 4.0 (Manufacturing Sector). Speaker: Mr. Chandrashekhar Iyer

Session 7:

The next session of the day was presented by 'VESIT Leading India AI' on the topic 'AI in Action - the Transformative Applications of AI in the real-world'.

The guest speaker for the evening was **Mr. Devesh Rajadhyax** (Founder & CEO, Cerelabs Pvt. Ltd.) gave an elaborate explanation on how Artificial Intelligence (AI) is changing the world. He also spoke about the future scope in this domain and how AI is going to transform the work culture in every industry.

He stressed on the fact that- "From basic school, bank or even farm level to the large industries, AI is revolutionizing every field. The future

holds much more transformation than what has been already achieved by this emerging technology." The webinar discussed in depth the bare essentials of AI and its applications in day-to-day life.

Session 7: Transformative application of AI in real world. Speaker: Mr. Devesh Rajadhyax

July 27, 2020
Session 8:

On the eight part of this webinar series, **Mr. Jatinder Kumar Kautish,** the Director of Data Science & Analytics within insights at Capgemini, India, set the agenda as 'Let's on-board Data flight towards AI based decisions.'

Throughout the session, Mr. Jatinder Kumar Kautish discussed and successfully conveyed the essence of the following subtopics to its attendees:

- Difference among Data and Information,Insights and Wisdom
- Data top decisions
- AI Cube
- Hardest Part of AI is not itself
- Challenges to implement AI at scale
- AI tools and frameworks
- AI domain use cases
- Power of transfer learning and ensemble techniques

Session 8: 'Let's on-board Data flight towards AI based decisions. Speaker: Mr. Jatinder Kumar Kautish

July 28, 2020
Session 9:

The ninth session of the talk series brought in the interests of the enthusiasts wanting to make a mark in the wireless and telecommunications sector. The talk, titled 'Wireless Communication in & its application in the Telecom sector' was accurately explained by the speaker of the afternoon **Mr. Sudhanshu Ojha** (AVP- Govt Affairs, CSR and D-Link Academy). The session was presented by the VESIT D-Link Academy.

The highlights of the presentation were -

- D-Link Academy at glance to create future work.
- Wireless Technology Application.
- Challenges in the Telecom sector
- Future Wireless Broadband demand
- Indian Telecom readiness for 5G

Session 9: Wireless Communication in the Telecom sector. Speaker: Mr. Sudhanshu Ojha

Session 10:

The afternoon session was presented by VESIT AIA CDC covered the topic 'Pervasive Sensing Enables Proactive Decision making by Transforming Data into Analysis'.

The speaker, **Mr. Sagar Jorapur** (Assistant Manager, Wireless and Digital Marketing, Emerson Automation Solutions), in his elaborate presenta-

Session 10: Pervasive Sensing Enables Proactive Decision making by Transforming Data into Analysis. Speaker: Mr. Sagar Jorapur

tion, gave an in-depth explanation as to what was pervasive sensing and how it enhances the plant performance and safety. The presentation focused mainly on innovations in sensing technology combined with the power of AI. The talk also emphasized on the innovations that drive a user in taking correct and effective decisions related to their assets.

Mr. Jorapur, in his presentation, gave a brief idea about how Emerson Automation Solutions and how its products are bringing about positive change in the pervasive sensing sector.

Session 11: IIoT for Brownfield and Greenfield Projects. Speaker: Mr. Tanay Kumar Sil

July 29, 2020
Session 11:

The eleventh session in the Tech-Xpert Talk Series was presented by the VESIT AIA CDC. The topic of the talk was 'IIoT for Brownfield and Greenfield Projects' which was helmed by the putative orator of the day, **Mr. Tanay Kumar Sil** (Head- Business Development & Education Network, B & R Industrial Automation Pvt. Ltd.).

The talk focused on the latest innovations and technologies involved with the Industrial Internet of Things (IIoT). The presentation included insights into both hardware and software solutions in the on-field project industry. Mr. Sil shared his valuable experiences in the Automation & Digitalization of machinery and equipment.

Session 12: Stream processing using Kafka. Speaker: Mr. Venkata Bhanu Prasad

Session 12:

For the twelfth session in the Tech-Xpert series, we had **Mr. Venkata Bhanu Prasad**, who is the Manager at Accenture (Learning and Knowledge Management Unit).

The agenda for the talks this time was 'Stream Processing using Kafka' with the main highlights for the same being:
Introduction to event driven systems
- Apache Kafka Fundamentals
- How Kafka Works
- The confluent platform for running Kafka
- Spark streaming using KSQL
- Demos for the above.

Session 13: Drone and Automation. Speaker: Mr. Gaurav Singh

30 July, 2020
Session 13 :

Conducted between the 2pm to 3pm time slot, the thirteenth part of the Talk Series had the central agenda as 'Drone and Automation'. The guest speaker for the day was **Mr. Gaurav Singh**, the CEO at DALVIK Apps and WEORG.

During the webinar, Mr. Gaurav Singh discussed Industrial Revolution 4.0 for starters before moving onto explaining how the Automation techniques are the need for the hour right now. Throughout the session, Mr. Gaurav Singh tried to convey how 2020-2030 is the decade of intelligent machines with an exponential growth of Artificial Intelligence and Machine Learning in occupational sectors. He ended it all off with an Agricultural sector case study to signify his stance and successfully did so.

31 July, 2020
Session 14 :

For the fourteenth session of Tech-Xpert Talk series,the VESIT oracle academy presented **Mr. Anand Nijampukar,** Project Manager and IT Consultant at Capgemini as the speaker for the time slot of 1pm to 2pm.

With a central agenda of 'Data management- An organisational perspective', Mr. Anand Nijampukar gave an overview of the Data management before demonstrating the Database of a Live product based application. Then he explained the basics about various Data management tools available for mainstream languages, like Oracle, SQL server, Vertical DataBase and Postgres Database.

Session 14: Data Management- An Organisational Perspective. Speaker: Mr. Anand Nijampukar

Session 15 :

For the fifteenth and final session, VESIT-Aditya Jyot Eye Innovation Center presented the esteemed **Padma Shri Professor. Dr. S. Natarajan,**
- President of the APOTS (Asia Pacific Ophthalmic Trauma Society), OMAG (Organised Medicine Academic Guild- with 20 medical organisations),
- The Immediate Past President of AIOS (All India OphThalmological Society),
- President at SANKARA NETHRALAYA ALUMNI
- Part of the Board of Trustee, International Council of Ophthalmology (ICO)
- Secretary General of the Asian Eye Genetics Consortium
- Chairman and Managing Director of Aditya Jyot Eye Hospital Pvt. Ltd.

Dr. S. Natarajan conducted a successful and well attended seminar on the topic of 'AI in Diabetic Retinopathy Screening' between the time slots of 3pm to 4pm

Session 15: AI in Diabetic Retinopathy Screening. Speaker : Padma Shri Professor.Dr.S.Natarajan

The VESIT Renaissance Cell faculty team:
Mrs. Abha Tewari (Assistant Professor, Department of Computer Engineering)
Mr. Abhishek Chaudhari (Assistant Professor, Department of Electronics Engineering)
Mr. Amit Singh (Assistant Professor , Department of Information Technology Engineering)
Mrs. Amudha Senthilkumar (Assistant Professor, Department of Instrumentation Engineering)
Dr. Anjali Yeole (Assistant Professor, Department of Computer Engineering)
Mrs. Indra Bhattacharya (Assistant Professor, Master of Computer Application)
Dr. Keya Doshi (Assistant Professor, Department of Humanities and Applied Sciences)
Mrs. Monali Chaudhari (Assistant Professor, Department of Electronics and Telecommunication Engineering)
Mr. Mrugendra Vasmatkar (Assistant Professor, Department of Electronics and Telecommunication Engineering)
Mrs. Rohini Temkar (Assistant Professor, Master of Computer Application).

Student Coordinators of the Event:
Ashirwaad Bedekar (D19A), Ajay Singh Khalsa (D12C), Ameya Padwad (D9B), Amit Chhabria (D12C), Mahalakshmi Pendyala (D14A), Sanket Chaudhary (D12C), Shubham Metkar, Suhas Kamat (D18), Suyog Sawant, Tanmay Pandit (D18), Tarun Mishra (D7C), Varad Rane (D18), Yash Bhise (D9B).

Scientia'20

- Gaurav Govilkar

Budding and aspiring young scientists could not hold their excitement as the Department of Humanities and Applied Sciences announced its first edition of the online quiz contest - 'SCIENTIA 2020'. The brain-stimulating contest had its exclusivity specially held for the **F.E. 2019-20 batch**. The competition was divided into three thrilling levels that tested the participant's all-round skills.

The contest was coordinated by the quiz masters **Dr. Barnali Saha** (Assistant Professor , Department of Master of Computer Application) and **Mr. Vijay Shejwalkar** (Assistant professor, Department of Humanities and Applied Sciences) under the guidance of **Mr. Vivek Umrikar** (Head of the Department, Department of Humanities and Applied Sciences).

Level 1

The first level was an open-to-all round wherein any student from the F.E. 2019-20 batch could participate. The syllabi panned across subjects from Semester 1 and 2, current events and the upcoming technology.

Level 1 was conducted online on July 25, 2020. This round was conducted via Google forms and consisted of 30 questions and a time limit being 30 minutes. The time constraint was a deciding factor in this round. Those that managed to stitch in time, emerged with flying colours.

The winners were announced shortly.

Best Performer - Prerak Moolchandani (D2A)
Commendable Performer - Radhika Kataria (D2A)
                                          Sumit Jadhav (D4A)

The class with maximum participation was awarded the Best Performing Division for their fervent enthusiasm. This award was proudly won by the D4A division.

The Best Performer award winner, Prerak Moolchandani(D2A) said, "The overall experience was refreshing. We learnt so much regarding the current affairs and about the state of the world during these pandemic times. It was also interesting to relearn the stuff from previous semesters."

The classes with a participation of more than 50% of their class strength, were promoted to the second round. The top three high scorers will then represent their classes for this round. A special challenger team was also promoted.

Level 2

The round 2 for the contest was scheduled on July 28, 2020. The 3 students selected from each class had to work as a team. In this round, team spirit was the key! A Google document was shared with every team wherein they had to fill the answers. The answer sheets were prudently monitored by the organizers. The questions involved topics ranging from basic engineering mathematics, physics, chemistry to general knowledge and IoT based systems.

This round was rather challenging and onerous as far as the level of questions was concerned. This level was stupendous as every team performed equally well and the judges had a hard time deciding the winners of this level. Round 2 winners were announced by the evening.

Scholastic Performer award was won by the team D4B. Other two teams that were selected for the finale were D4A and D2B.

Level 3

Level 3 was a gala event which was hosted by **Dr. Pooja Kundu** (Assistant Professor, Department of Humanities and Applied Sciences) was conducted on August 1, 2020. The live streaming of the event began exactly at 5 pm. The event began with a melodious Vandana to the lord of wisdom, Ganesha, sung by Rijushree Saha. **Mr. Vivek Umrikar** (Head of Department, Department of Humanities and Applied Sciences) in his speech aptly quoted, "Science and General Knowledge are Indispensable".

The top 3 teams from the previous round braced themselves for the series of multiple engaging and enthralling rounds. The third level had six rounds in total. Each round was unique and had its own distinctive modus operandi. The finale rounds were strictly moderated by the members of the Exam Panel, **Dr. Manisha Tiwary** (Assistant Professor, Department of Humanities and Applied Sciences) and **Mrs. Ramya T** (Assistant Professor, Department of Humanities and Applied Sciences).

Round 1 of this level was a time demanding round with 10 questions for each team to be answered in a minuscule span of 2 minutes. Each team was provided with a workspace to type out their answers. The second round called 'Visual Connect' was very interesting and was divided into two sections, viz, Short Connect and Long Connect. Each question in this round was a picture. Each picture in the short connect round had a hint for the answer of the long connect round. This round made the contestants alert as it had a negative marking system. Guesswork was no more an option for the participants.

Round 3 was a 'Pounce-Back' Round, wherein the teams had a chance to answer the questions directed to other teams and earn bonus brownie points. This round, though, had negative marking too. Round 4 was very wisely named 'Scientia-Sonic' was an audio-based round. The questions in this round were based on audio that was played in the background. In this round, the contestants were all ears for the audio track.

Fifth-round was a matrix puzzle round called 'Subject Maze'. A word maze was shown on the screen to the participants. They had to find those words that were related to the subjects in the previous semesters. Later, a questionnaire was given to the participants, whose answers were those hidden in the word maze! The final round, the sixth, fittingly named 'Finishing Link' was a true real taskmaster for the finalists. Each question had two parts, both whose answers were linked to each other. Those who linked their brains and souls made it through. Being the last of the lot, this round saw some spine-chilling debate between the participants as the competition had reached its peak!
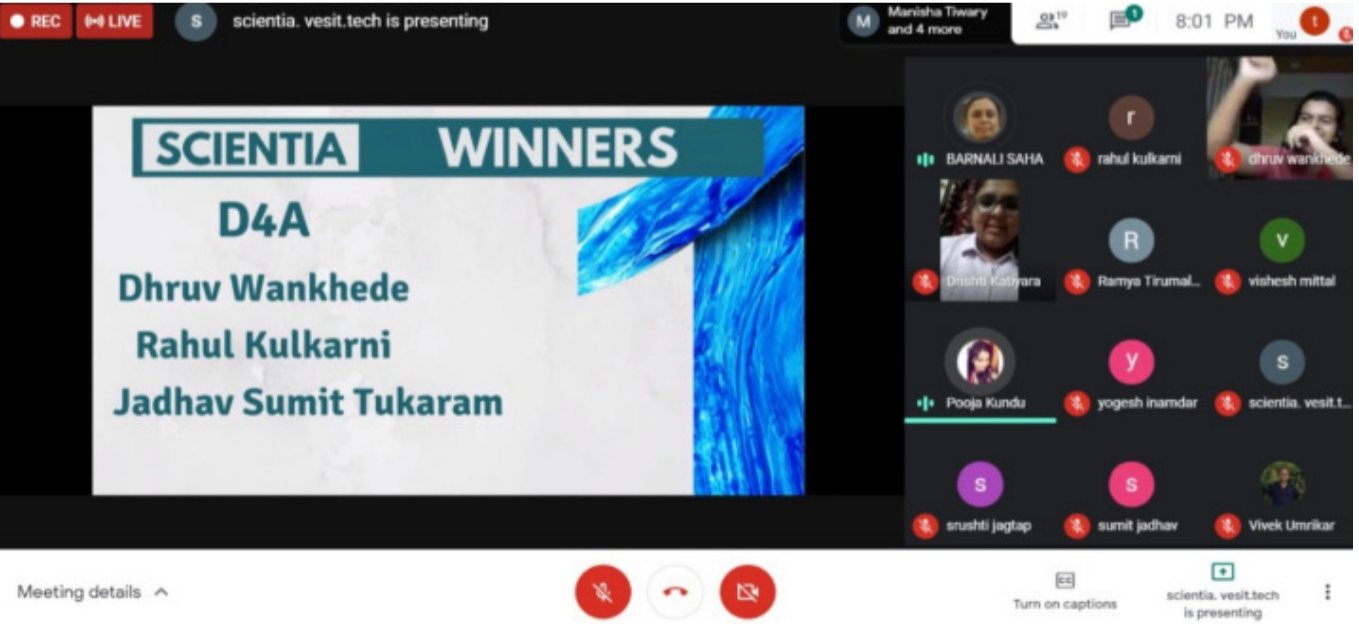
Dhruv Wankhede (D4A) (top right corner) celebrating as winners are announced

After the concluding round was done, the quiz masters entertained the online audience with some mind-boggling music tunes until the results were being calculated. Interestingly, a poll was conducted wherein the audience were asked to guess the winning team.

Finally, the results were declared.

Winners - Team D4A: Dhruv Wankhede
                            Rahul Kulkarni
                            Sumit Jadhav

1st Runner Ups- Team D2B: Rashmi Singh
                              Vishesh Mittal
                              Drishti Katiyara

2nd Runner Ups- Team D4B: Tanya Dubey
                              Srushti Jagtap
                              Yogesh Inamdar

Which team do you think will win?

Poll conducted by the organizers to guess the winners

Scientia organizing committee:
The technical team that included Yash Bhise (D4B) and Ameya Padwad (D4B) did an amazing job of conducting the event without any technical hindrances. **Mr. Mahesh Singh** (Assistant Professor, Department of Humanities and Applied Sciences)

designed the poster for the contest. **Mrs. Ramya T**(Assistant Professor, wDepartment of Humanities) designed the certificated for the event.

The Resource Team included:
Dr. Barnali Saha, (Assistant Professor , Department of Master of Computer Application)
Mr. Vijay Shejwalkar, (Assistant Professor, Department of Humanities and Applied Sciences),
Mrs. Ramya T, (Assistant Professor, Department of Humanities and Applied Sciences),
Dr. Manisha Tiwary, (Assistant Professor, Department of Humanities and Applied Sciences),
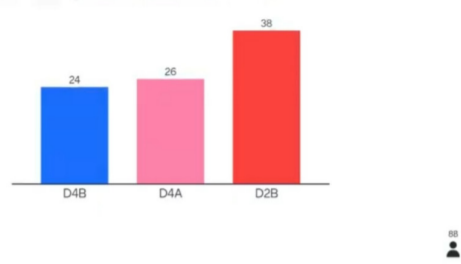**Dr. Maya Bhat,** (Assistant Professor, Department of Humanities and Applied Sciences),
Mr. Mahesh Singh, (Assistant Professor, Department of Humanities and Applied Sciences).

The exuberance of the science and celebration of knowledge was the concluding note of the evening.

VESIT Voice

-Atharva Gupte

The month of August, until last year used to be a month of excitement and hustle, with lectures, extracurricular activities, events going on in full swing. This year however it wasn't the same due to the pandemic, but the Prarambh of an unwavering grit for teaching and hunger for learning fuelled the Umeed for the smooth conduction of online classes and other activities thereby bringing the camaraderie of the corridors and staff rooms virtually in our homes.

We are proud to announce that Vivekanand Education Society received the rank of '**Band B**' Institutions (rank 26-50) in the prestigious ARIIA Rankings 2020. Our beloved Principal **Dr. (Mrs.) J.M Nair** writes a heartfelt letter to all the students, faculty, and the non-teaching staff about keeping the learning spark alive during these times. VESITians continued the winning streaks at Smart India Hackathon and Code for Good, thereby proving that when the going gets tough, the tough get going. Keeping in mind the increasing need for online learning, VESIT TechXperts talks were organized to encourage students to upskill themselves in different niches of technology. Scientia 2020, was a first of its kind quiz competition organized for the second year students by the Department of Humanities and Applied Sciences.

The MCA department also held a talk series of some of the most distinguished MCA alumni sharing insights from their journeys with students. A series of Faculty Development Workshops were held acknowledging the sudden shift in the learning patterns and how to overcome it. An online Short Term Training Program in the field of Green IoT was held by the Department of Electronics and Telecommunication to acquaint academicians and industry personnel with the IoT technology, recent trends and green initiatives.

We also had the Department of Masters of Computer Applications organising an online session on "Pranic Healing Energy Science" in association with VESIT - IQAC. Tinkers' CodeCell put their best foot forward by organizing an Android Development Workshop and introducing students to the world of Android Studio. VESITians also continued their winning streak in Arthanomics in which business and economics events had a post pandemic theme. Our college also celebrated Sadhbhawana Diwas celebrating the spirit of to work for integrity, prosperity and unity of our country.

In VESIT diaries, we have Ms. Sowmyasree L from the Batch of 2017. She is a consultant at Capgemini and has done her Masters in Business Administration from IIM Shillong. She shares her experiences in VESIT and how those experiences shaped her professional journey and life.

Happy Reading and Stay Safe!

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Maitraiyi Dandekar   Sneha Karthik
Bhavesh Lohana   Tanya Dubey

Equipping for a better tomorrow with MCA

- Mihir Pamnani

Pratibimb literally means reflection in classical prose. Drawing an absolute parallel, the Department of Masters Of Computer Applications (MCA), conducted an event of similar literary reference. The event was initiated to help the Class of 2020 gain some knowledge from the endeavors of the MCA alumni of our institute. The prime notion being that one indeed plans more analyzed decisions tomorrow after an ipso facto scrutiny of lessons, which laid the foundation for MCA's Pratibimb this year. Six distinguished speakers, employed in varied career prospects, were invited to share their word of experience with the students. Owing to the pandemic and it's obvious culpability, the event was achieved via virtual frameworks, and later all the video

speeches were uploaded on the streaming platform - VESIT's Youtube Channel. The speaker orations ranged from conjuring nostalgic college imagery to how they strived to direct their unique career trajectories. Listening to their inspiring articulations let's further decode their journeys and shared educational discourse.

Mr. Dharmang Vora (MCA Batch of 2011) is the epitome of tremendous potential and hard work. He recalls how directing students' efforts with respect to the placement perspective since the very beginning had aided him immensely in his learning stature. He commends to how the supportive "family culture" at VESIT with his professors, support staff and friends had helped him grow into a better

Mr. Dharmang Vora (MCA Batch of 2011)

person. For him, his enthusiasm and expertise for software programming expanded because of the varied project assignments and constructive feedback. Eventually, this led to "cloud computing and Digitization" being his prime area of interest. As of today, with more than nine years of experience in application delivery in Data Warehousing and Business Intelligence, he works in the financial services sector in Japan.

Mr. Nitin Deb (MCA Batch of 2015)

Mr. Nitin Deb (MCA Batch of 2015) is someone who has endured long enough on the learning curve to ensure depths of career prospects and interest. From his days of completing Masters of Computer Applications from VESIT, he recalls how wworking as a placement coordinator back then had helped him understand time management and smart work. Further, he iterates on how one of the lessons from his college days served as the statement for his application to pursue a second Master's degree from the University of Maryland, Baltimore with a major in Information Systems. For him, "life is all about growth and growth demands change." Currently, he is working as a Business Intelligence Engineer at AmeriHome Mortgage, LLC, and continues to do better every day.

Ms.Tanvi Kadam (MCA Batch of 2015)

For **Ms. Tanvi Kadam** (MCA Batch of 2015)**,** MCA made the transition from college lessons to industry-ready vigor seamlessly pleasant. Recollecting the placement program days, she emphasizes on how groups of experts with respect to interviews helped her excel in the fields of communication, whilst she also guided others on doing what she knew best back then - aptitude tests. All in all, according to her, the all-inclusive environment and programs indeed supported all the candidates to grow exponentially. Today, with the experience of five years in UI Development, Ms. Kadam works as an Associate at Nomura. For her, "Change is the only constant." And considering the ever-advancing IT industry, she says that she owes it to VESIT for the firm groundwork of concepts that have assisted her in a long run for the development of newer ideas and skills.

Mr. BalaKrishnan .V (MCA Batch of 2015)

"VESIT makes sure that it provides a plethora of placement opportunities for all the candidates to achieve their goal.", says **Mr. BalaKrishnan**. Apart from that, according to him, the IT Forum societies provide a range of exciting projects and workshops which are extremely helpful in the mind frames of technological. He firmly believes that MCA helped him grow, not only career prospect wise but whole as a person. From literature, sports, music to all the extracurricular activities provoking the varied areas of interest and expertise contributed to the making of the man he is today. Currently, Mr. BalaKrishnan is working as an Associate Senior Developer at Nomura and aces at what he knows the best.

Mr. Karthik Iyenagar (MCA Batch of 2015)

Mr. Karthik Iyengar (MCA Batch of 2015)**,** working as a Software Engineer at a financial servic-es firm named Klanara in Germany, thinks back on how the updated curriculum of MCA days such as soft computing and system architecture aided him in acing at industry real services with ease. For him, "the camaraderie and supportive placement cell programs at VESIT played a critical role in shaping his professional expertise." Owing to the addition of MCA courses in his application, he states that, "it certainly does increase the stakes for credibility and helped me secure projects abroad." He also remembers how the technical societies and cultural council activities kept him engrossed and always lent a space of freedom to explore his talents which then shaped him as the person who he is today.

Mr. Minhaj Shaikh (MCA Batch of 2017)

"Three years of MCA helped me realize my true potential and self-worth", **Mr. Minhaj Shaikh** recalls. From all the well-equipped lab sessions to an overall supportive learning environment, VESIT played a crucial role in the advancement of his comprehension skills. After working at a firm as an Ex-Alliance Manager and Chief Coordinator, he went on to pursue his dreams and found "FriendsCampus.com" - a startup for the development of coaching networks on a mission to provide personalized education to students everywhere. Today, Mr.Shaikh is an avid entrepreneur and firmly believes in achieving his goals.

The three-year course of Masters of Computer Applications has contributed immensely to molding the careers of many students dynamically. And the testimony to the aforementioned is the vivid endeavors of all the speakers which were certainly very insightful and can guide one on making plans for their future ventures efficiently.

"I learned a lot from their experiences. Their recommendations on workshops and subject analysis are things that I plan to work on from now. Their varied fields of working have also made my mind curious to explore more. Overall, it was great to hear the journeys of all the Alumni students and the event was surely very helpful."- says Kaushik Janmanchi, III year MCA student.

FDP on Research Directions in Security and Computational Intelligence

- Maitraiyi Dandekar

As the world faces unseen challenges and increasing uncertainties due to this global pandemic, Vivekanand Education Society's Institute of Technology (VESIT), in association with CSI-VESIT, VESIT-Internal Quality Assurance Cell (IQAC) and VESIT-Institution's Innovation Council (IIC) conducted a National level six-day online Faculty Development Program on Research Directions in Security and Computational Intelligence. This program was organized with the aim of guiding its faculty towards different avenues of research in Security, Blockchain, AI, Neural network, Fuzzy logic, methodologies of teaching learning process and its online tools.

Scientific and professional research has revolutionized over the years in the field of Information Technology, Computer Engineering and Computer Applications. Conduction of research in multiple fields of computational intelligence presents a variety of ideas and products benefitting a majority of experts, entrepreneurs and even government organisations. This facilitates coordination between technology users and developers; researchers and manufacturers in a major way.

Vivekanand Education Society's Institute of Technology
National Level FDP
(In association with CSI-VESIT, VESIT IQAC & IIC)
Research Directions in Security and Computational Intelligence

Keynote Speaker

Mr. PRADEEP RATHI,
Founder & Mentor-in-Chief, 5i Zone
Regional Vice-President Region 6 (Maharashtra & Goa), CSI

- 34+ years experience focused on ROI, Broad Leadership, Shared Value, CSR & Operational Expertise based out in Mumbai.
- Has headed Limited Companies & Managaed Global Operations.
- Business interests in Real Estate, Financial Services and Business Startup Incubation & Acceleration.
- Regional VP of Region 6 (MH & Goa) of National Executive Committee of CSI

Monday 3 August 2020, 3:00 p.m.

DAY 1- Dr. Pradeep Rathi, Keynote Speaker

Day 1: 3rd August, 2020

The program began with a Saraswati Vandana followed by the Vice Principal **Dr. M. Vijaylakshmi's** address. Keynote Speaker, **Mr. Pradeep Rathi (Regional Vice President Zone-6 MH & Goa, CSI)** highlighted how drastic, unprecedented changes and challenges have taken place and the need and requirement of sensors among many things.

DAY 1 - Mr Ratnadeep Deshmukh presenting on **Analysis of Various objects using Hyperspectral Remote Sensing & its Applications**

Mr Ratnadeep Deshmukh HOD (Dept. CS & IT) - Professor at Dr. Babasaheb Ambedkar Marathwada University in Aurangabad, talked on the topic: "Analysis of Various objects using Hyperspectral Remote Sensing & its Applications". He explained how different apps and other resources can be useful while collecting data by spectral sensing and how it can be used for palm script scanning along with many more things. He also introduced to the advanced instruments he uses in his spectral labs, their efficiency and how the instruments affect his research work.

DAY 1 - Mr. Arup Vithal presenting on AI in healthcare and life sciences.

Mr. Arup Vithhal (Vice President-Digital & Analytic Business, HCL Technologies, Texas) talked about "Artificial Intelligence in Healthcare and Lifesciences". The Indicative Artificial Intelligence capabilities for the future of life science and different aspects of healthcare, COVID Effects Planning, logistic and service, collection and planning. He concluded by emphasizing on the above mentioned points and showing that if done together nothing is impossible to achieve

DAY 2- Mr.Ravindra Muddinagiri on Passwordless authentication using biometric methods

Day 2: 4th August, 2020

Mr. Ravindra Muddinagiri (Vice President - Network Marvels Pvt. Ltd.) a VESIT alumni (Elec-

tronics, Batch of 1990), talked about security,various authentication mechanisms and the recent trends in passwordless authentication using biometric methods like hybridization of fingerprints, retina scanning and such, with traditional approaches become obsolete gradually.

He gave an overview of OATH 2.0 standards, OpenID Connect and FIDO standards, displayed how factors like Public Key Infrastructure play a role in securitization of accounts and how OTPs are generated for different logins. He concluded with a summary of how these technologies lend to automation and efficiency in the enterprise.

DAY 2 - Dr. Mani Kumar presenting on Financial Technology

Dr. Mani Kumar (Professor-Computer Science Department, New Jersey Institute of Technology), briefly talked about the current situation of the financial sector. He described and demonstrated key capabilities of Risk Management Platform (RMP) with real time acquired data, how it is implemented in leading banks, demonstrated its applicability to Indian markets in the MUTF space. He enlightened viewers on applications of predictive AI and financing and investment and working of modern financial markets, particularly stock and commodity exchanges, modelling of key financial measures and risk.

DAY 3 - Dr. Sashidhar R. presenting on Reasearch trends in Block Chain

Day 3: 5th August, 2020

Dr. Sashidhar R. (Assistant Professor- Bennett University) conducted the webinar on the topic "Research trends in Blockchain" wherein he gave an insight to cryptocurrencies and blockchain and blockchain security services. He briefly introduced the various cryptographic primitives used to provide authentication,confidentiality, data Integrity, access Control (CIA).

He moved on to explain the basics of Blockchain systems and to clarify concepts further he showed a live demonstration of the working of the Blockchain system by creating a dummy transaction in Ethereum and the code behind it. In the Research trends, he covered areas such as Mobile and Wireless Environments, IoT Security, HealthCare, Cyber Security, AI, Drone Research, (Wireless and Mobility environments) explaining each area in depth and the security requirements essential for a robust research in these areas.

Dr. Seyed Buhari (Professor- Dept.of Information Technology, King Abdulaziz University, Saudi Arabia) spoke about "Optimal Classroom Scheduling Course - Curriculum Mapping" ie. how the colleges should enhance their curriculum in or-

der to ensure complete holistic development of the student such that they are ready for the corporate industry.

He spoke about quality assurance in education and how teachers should be planning their curriculum so that it's easier for students to understand their subjects and engage the students. He also stressed on how to schedule courses such that enough time is given to topics that students have most difficulty with and shared the rubrics on which projects should be assessed where no definitive marking scheme is provided to the teachers.

DAY 3 - Dr. Seyed Buhari spoke about Optimal Classroom Scheduling Course-Curriculum Mapping

Day 4: 6th August, 2020

Mr. Vikash Kumar (Chief Marketing Officer, Blocklogy Edutech Pvt. Ltd.) started by talking about similarities in blockchain and databases but how blockchain can do so much more than regular databases. He spoke about the growth potential and earning potential in this field with increasing global demand and how the future is FinTech (Financial Technology) and the future of FinTech is Blockchain.

DAY 4 - Mr. Vikash Kumar presenting on growth and potential in Blocklogy

He explained concepts like digital signatures, peer to peer network, proof of work, incorruptible due to public history or transaction, how cryptocurrency is using the concept of Blockchain, how honest independent node control and vote with majority of CPU computing power and how rules and incentives are enforced through consensus mechanism.

Benefits of Blockchain include that it is Immutable, Secure, Transparent, Decentralized, Peer-to-peer transactions and time-efficient. But along with benefits also comes Challenges such as it is a Nascent technology with uncertain regulatory status, lack of knowledge leading to misconceptions and thus lack of Mass adoption. He also highlighted differences in centralized and decentralized ecosystems and how Blockchain is also called as Distributed ledger Technology. He went on to list premium companies such as IBM, Google, Microsoft, government of countries and various industries such as energy, travel, media, forecasting, cyber security that use blockchain technology.

He then reviewed how blockchain has its foundation in cryptography (hashing & public/private keys) and some basic concepts like genesis, block and merkle root, nouce and how one block can keep track of entire families (generations ago). He spoke about types of Blockchains: Public,Private and Consortium (access to limited users). He also talked at length about Smart Contracts which the system draws up and executes every time once deployed. The session concluded with a question answer session.

DAY 5 - Mr. Mahesh Pavaskar talked about Cyber Security Space & SIEM

Day 5: 7th August, 2020

Mr. Mahesh Pavaskar (Principal IT Security, Architect at Cleared Europe Services) talked about "Cyber Security Space & SIEM". He highlighted the importance of cybersecurity and SIEM(Security Information and Event Management). He spoke about ethical hacking and different platforms available where one can check and keep a record of various log-ins and activities carried out on a particular machine(Hack The Box). This turned out to be a really interactive and engaging session as he talked about the various opportunities in this field, research, various roles in SIEM and new trends emerging in the field of security.

DAY 5 - Dr. Sharvari Tamane spoke on Fuzzy Logic in Artificial Intelligence & its Applications

Dr. Sharvari Tamane (HOD-Information Technology Department, MGMs JNEC Aurangabad) spoke on "Fuzzy Logic in Artificial Intelligence & its Applications". She talked about it's different applications like washing machines and highlighted how flexible the Logic is. She spoke about different branches and uses of AI in Machine Learning, Natural Language Processing and how they are already a huge part of our lives.

Finally, **Dr. Sangita Kakarwal (Professor - Department of Computer Science and Engineering, P.E.S. College)** and **Dr. Shubhangi Sapkal (Assistant Professor - Government College of Engineering,Aurangabad)** gave a presentation on "ANN: its MATLAB programming".They started

off by giving a general introduction to what ANN (Artificial Neural Networks) is highlighting the neuron structure, it's importance and architecture.

DAY 5 - Dr. Sangita Kakarwal and Dr. Shubhangi Sapkal spoke on ANN: its MATLAB programming

They talked about some of its applications in Backpropagation Algorithm and Competitive Learning. They demonstrated different ANN and Deep learning programs using different datasets in the Matlab Software.

DAY 6 - Mr. Sandip Chavan presenting on BlockChain

Day 6: 8th August, 2020

The first session of the day was jointly conducted by **Mr. Sandip Chavan (senior software engineer, Siemens, UGS PLM Software) and Mr. Sushil Bedre (Senior Architect, Siemens Pvt. Ltd.)** on "Blockchain". They started of by talking about Bitcoin v/s Blockchain, what blockchain is ie. how security is its most important feature and thus underpins all crypto currencies.

They explained what a hashing algorithm is and why it is difficult to tamper with thus ensuring

maximum security. They touched upon types of blockchain networks, key forces of blockchain and types of blockchain(public and private). They talked about its benefits such as immutability, reliability, transparency, lower transaction cost, security, irreversibility, anonymity and globalization. Blockchain can be applied in fields of cryptocurrency, legal, insurance, trade finance, banking, IoT, healthcare.

They also explained smart contracts in great length and how they are self executed after deployment and called blockchain the next internet because of how much data it is going to generate. They explained in great depth about Hyperledger - an open source collaborative effort to advance cross industry blockchain technologies for different industries.

DAY 6 - Dr. Ramesh Raybhan Manza spoke about "Open Source Tools for E-Content Development, Teaching, Learning & Evaluation

Dr. Ramesh Raybhan Manza (Associate Professor - Dr. Babasaheb Marathwada University) spoke about "Open Source Tools for E-Content Development, Teaching, Learning & Evaluation". He explained about E-Content Development, creating a Gmail Account, how to use Google classroom and its utilities to its maximum potential and enrich the learning experience of the students and make it smoother for the faculty.

He also demonstrated the use of OBS (Open Broadcaster Software) for video creation. Teaching and learning activities and Evaluation mechanism of students were some other things he elaborated on. He concluded by talking about google classroom for mobile. This was a highly informative session and is sure to help teachers in such trying times.

The final day concluded with a valedictory session by **Mrs. Mona Deshmukh** (Associate Professor - Department of Masters in Computer Applications). She thanked all the guest speakers that had participated in making this national level program a great success, along with all the teachers and students that played a role in its smooth functioning.

"*In every day, there are 1,440 minutes. That means we have 1,440 daily opportunities to make a positive impact*"

–Les Brown

Inching Towards Online Teaching-Learning

- Tanya Dubey

Due to Covid-19, there was a sudden shift to distance learning without prior preparation. In order to help teachers with using the technology effectively, the Electronics and Telecommunication department of VESIT organized a **Faculty Development Program** on **'Transition to Online Facilitation'** in association with **VESIT-Internal Quality Assurance Cell (IQAC)** and **Institution's Innovation Council (IIC)**. It was a 4-week long online program conducted from 8th July 2020 to 5th August 2020. The program was open for the Faculty of Engineering (any discipline), Diploma and Master of Computer Applications (MCA), free of any registration fees.

The resource person for the FDP was **Dr. Jayakrishnan M.** in association with the **Teacher Use of Educational Technology (TUET)** project of the Educational Technology program, IITB. **Dr. Jayakrishnan** is a senior scientist in NPTEL at IIT Madras. This program emphasized the Network model of learning where participants were divided into groups with a moderator. It was an activity-based learning regime, where each participant was required to work for 4-5 hours per week to learn the online tool and complete activities or assignments at their convenience.

The program aimed to cover topics including basics of using the technology, effective application of the technology to promote learning, curation of e-content and contributing back to the community. The following technologies were discussed in the FDP:
Screencast-o-matic and Flashback Express - screen recorder and video editor software
Slack - an advanced alternative to WhatsApp
Jit.si - open Source video conferencing app
WordPress - popular open source content management system
Google Forms -helps create surveys, graph data and analyse results and inputs

Week 1

The first week of the FDP, that is, from 8th July 2020 to 15th July 2020, focused on content creation such as slides, activities, videos and Google classroom. This week dealt with the following content:
1. Creating a Digital Journal of their own learning
2. Creating Screencasts
3. Focusing on Curation (over Creation)
Preliminary reference materials shared with the participants in the first week included the Resource Page of the Educational Technology Department at IIT Bombay for transition to Online Learning and NPTEL Special Lecture Series Talk on "Use of Technology in Educational Content Development". The additional reference materials included an article that talks about Bandwidth vs Immediacy of educational content creation for Online Facilitation, steps in planning and creating Screencast using screencast-o-matic, examples of course journal and institutional practices to maintain standardised resources.

Week 2

The second week of the FDP, from 16th July 2020 to 22nd July 2020, explored the idea of creating Learning Dialogues against just plain videos. Further, it introduced the participants to Slack workspace. This week dealt with creating 'learning dialogues' from existing videos, creating their own learning dialogues and communication using Slack.

The mandatory video contents for the week were:
1. What is Learning Dialogue?
2. What is Chunking?
3. Adding Reflection Spots
4. Takeaways on Learning Dialogues

The activity assigned for the week focused on participants creating their own Learning Dialogues

and reviewing the Learning Dialogues handed in by their peers. Interested participants were also provided with additional resources including 3 videos on best practices of Learning Dialogue creation and H5P website that helps in the creation of interactive videos.

Week 3

The third week of the FDP, that is, from 23rd July 2020 to 29th July 2020, focused on community building through Slack and Jit.si. There were dedicated activities that had to be done as part of a group using the learning from the previous week. The participants were divided into 10 groups with moderators or facilitators appointed to each group. The main focus of the week was onboarding the group members to Slack. There was a "Session on Slack" using the Slack workspace.

The working of Slack was explained to the participants by means of the following analogy:

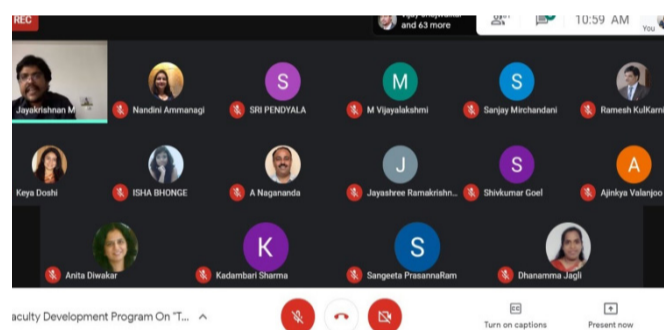Institution <=> Slack Workspace
Rooms <=> Channels
Auditorium/Public Gathering Room <=> Public Channels
Classrooms/Private Rooms <=> Private Channels (group-specific-channels)
Structured/Systematic Communication <=> Use of threads (by replying to posts)
Unstructured/Chaotic communication <=> Use of individual posts alone

Resource person Dr. Jayakrishnan M. (Senior scientist, NPTEL, IIT Madras) along with 80 faculty members attending the FDP

Week 4

In the final week of the FDP, that is, from 30th July 2020 to 5th August 2020, the participants had to create training sessions on different types of technologies.

"Due to the current scenario of COVID 19, online teaching has become the need of the hour. I enrolled for this FDP: Transitions to online Facilitation as its objectives matched with my expectations for exploring the new teaching-learning sources and technologies. It was a great initiative taken by the Department of Electronics and Telecommunications of VESIT for making us explore so many useful new tools and technologies. This FDP: Transitions to online Facilitation totally justified its objective and I learnt so many new technologies to make my online teaching more effective and expressive. The Resource person and the resources provided by all the facilitators were very informative and easy to understand", said **Dr. Keya Surag Doshi,** Assistant Professor, Humanities and Applied Science Department.

She further added, "Initially it was difficult to identify the crux of the whole process but gradually after self doing it, the final output was so satisfactory. The concept of focus discussion was so helpful to improve my work assigned in FDP. Reviews and suggestions from the peers were very effective and productive. Last week's group activity was the most enjoyable and a great learning experience of the whole FDP. I created videos using screencast-o-matic and also added reflection point to make it more effective using H5p. I created certificates using Certify'em

and Autocrate and quizzes using Mentimeter and Testmoz. I also created my own Jam using Jamboard and my own website for the first time using Google site. Overall it was a great learning experience."

Dr. Jayakrishnan M. (Senior Scientist, NPTEL, IIT Madras) conducted the introductory session

A fortnight of lessons

This FDP was not about knowing more about the technology tools rather it was about using the technology effectively. Amidst this daunting and unprecedented time, the program equipped teachers with tools and techniques for effective teaching and training through online lectures and hands-on practices on specially designed software with an appropriate pedagogical framework. In doing so, the program enabled faculty members to get familiar with appropriate teaching techniques, pedagogical advancements and focused discussions on technologies that are useful for Online teaching-learning.

"During this pandemic, I have attended many online FDPs for enhancing the online teaching-learning process, but this FDP was very unique among all others. Initially, each activity allotted seemed to be difficult and challenging, as I had never done all this before but with the continuous support from all FDP instructors and coordinators, and learning from my peers, I was able to complete this FDP successfully. In this one month long FDP which was more asynchronous learning, I have not only learnt but actually implemented and used various online tools like screencast-o-matic, mentimeter, testmoz, EdPuzzle and many others to make my online teaching and learning effective and impactful for students. Undoubtedly, this FDP was very helpful for me to conduct my online classes in a better way", said **Amrita Jhaveri,** Assistant professor, Electronics department.

Patrons:
Shri B. L. Boolani (President, VES Trust)
Shri Amar Asrani (Secretary, VES Trust)
Dr. (Mrs.) J. M. Nair (Principal, VESIT)
Dr. (Mrs.) M. Vijayalakshmi (Vice Principal, VESIT)

Advisory Committee:
Mrs. Shoba Krishnan (Head, EXTC Dept.)
Dr. Ramesh K. Kulkarni (Deputy Head, EXTC Dept.)
Dr. Nadir N. Charniya (Vice President, IIC)

Course Coordinators:
Dr. (Mrs.) Nandini Ammanagi (Assistant Professor, EXTC Dept)
Mrs Rasika B. Naik (Assistant Professor, EXTC Dept)
Mr Sanjay Mirchandani (Assistant Professor, EXTC Dept)

VESIT organises STTP on Green IoT

- Hridesh Kamal

VESIT's Department of Electronics and Telecommunication organised an online **Short Term Training Program** on **Green Internet of Things**. The event, held from 10th to 15th August 2020, was in association with the **VESIT Internal Quality Assurance Cell (VESIT IQAC)** and the **Institution's Innovation Council (IIC).**

This program was sponsored by the **All India Council for Technical Education (AICTE)** and had no participation fees. The training program saw participation from a total of 50 faculties and industry representatives from across the country.

Objectives of the Online STTP

This STTP aimed to acquaint academicians and industry personnel with the IoT technology, recent trends and green initiatives. Further, it provided exposure to technologies supporting Green IoT, predictive analytics using IoT, security in IoT along with hardware and software development tools.

This program focused on the development of various industrial and societal applications using the Internet of Things. Several eminent speakers and practitioners from academia and industries conducted sessions on Green IoT through the week-long seminar.

It motivated the participants to turn interesting, innovative ideas into practice. Further, the program explored research avenues in the domain of IoT and Green IoT with effective discussions during the training.

A Week of Exploration and Training

The STTP began on August 10th, 2020. The registered participants were provided with all communication through a Telegram channel. Participants had to attend daily online sessions at the scheduled time as part of the training. These sessions, held daily from 9:30 AM to 5:30 PM, involved interaction through virtual meetings over Zoom.

Day 1: August 10th, 2020

The STTP on 'Green Internet of Things' began with the inauguration at 9:30 AM. All the participants got welcomed to the event. Next, they were provided with an idea of what they should expect from the week-long training program.

At 11 AM, participants were introduced to **Ms Kalpana Banka** from Accenture, Mumbai, as the first speaker of the event. She provided the audience with keynotes on IoT and green initiatives. It was followed by a discussion on security and privacy in IoT with **Dr Farukh Kazi (Chairman BOS - EXTC, University of Mumbai)** at noon.

The participants were provided with a refreshment break at 1 PM. Next, at 1:40 PM, **Dr Y S Rao (SPIT Mumbai)** contributed with insights surrounding smart hardware and software technologies for power optimisation. The proceedings got wrapped up with a session on IoT applications and research avenues, presented by **Mr Sailesh Agaskar (Program Manager, Capgemini India)** starting 3:05 PM.

Day 2: August 11th, 2020

The second day of the event commenced at 9:30 AM with **Dr Amol Madane (TCS Pune)** exploring the application of Image Analytics in the real world using IoT. Following this was a concourse by **Mr Amit Mishra (Corp Trainer, New Delhi)** at 11:15 AM. The talk was on the topic of 'IoT, M2M towards IoT-the global context, Hardware and Software'.

After that, a lunch break for the audiences started at 12:45 PM. Mr Amit returned at 1:15 PM to discuss several topics ranging from Scope of IoT applications and Evolution of IIoT & Industry 4.0 to IoT Adoption, AI and Automation. Finally, he expanded the topic to sensor data analytics before concluding his discussion at 5:30 PM.

Day 3: August 12th, 2020

The third day of the training started at 9:30 AM with a session about 'Machine Learning on IoT Data' by **Dr Manesh Kokare (SGGS COE Nanded).** Following this was the return of Mr Amit Mishra as a speaker in the STTP. At 11:15 AM, his concourse started surrounding IoT and the details of hardware, software and platforms.

A break from 12:45 PM to 1:15 PM gave the audience a chance to refresh themselves. Mr Amit returned as the speaker for the remainder of the day. He discussed the network layer and IoT protocols with the participants. The proceedings got wrapped up with a session on 'Getting started with MQTT'.
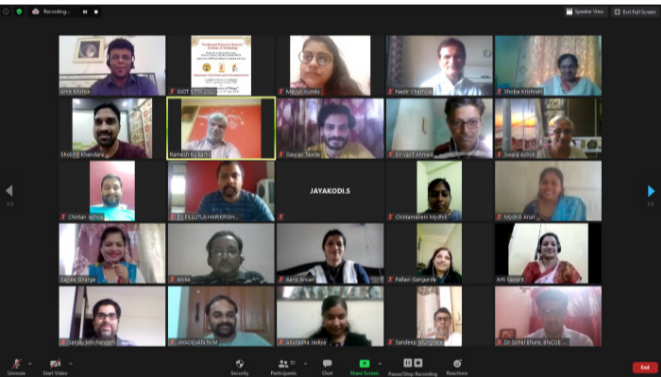
The STTP on 'Green Internet of Things'

Day 4: August 13th, 2020

The fourth day of the program began at 9:30 AM with **Mr Bhupendra Bhate (Retd. from L&T, Mumbai)**. He introduced the participants with ways to promote green initiatives through IoT. At 11:15 AM, Mr Amit Mishra demonstrated the use of Python programming for IoT and data analytics.

The session was followed by a 30-minute break post its conclusion at 12:45 PM. With the end of the break at 1:15 PM, Mr Amit presented the concept of Node-Red, a hardware development tool. Finally, he concluded the day's events at 5:30 PM, discussing cloud platforms and controlling devices from a cloud platform.

Day 5: August 14th, 2020

The fifth day of the event started at 9:30 AM with a session about 'Green IoT: Opportunities and Challenges' by **Dr Mahesh Bundele (Principal and**

Director, Poornima University, Jaipur). After this, Mr Amit Mishra returned as a speaker at 11:15 AM with a discussion on algorithms for regression and prediction.

When the scheduled break finished at 1:15, Mr Amit expanded on his previous discussion by presenting regression and prediction using Python. Finally, he wrapped up the proceedings at 5:30 PM with sessions on 'Temperature reading & EDA using IoT Devices' and 'Regression & Predictive Analysis using IoT Devices'.

Day 6: August 15th, 2020

The final day of the online STTP commenced at 9:30 AM with **Dr Saurabh Mehta (VIT Mumbai)** exploring the role of IoT in the power sector. It was followed by a discussion on 'Information and Cybersecurity' with **Mr Amit Mishra** from 11:15 AM. The refreshment break lasted from 12:45 PM to 1:15 PM. Mr Amit returned one final time with his session on standards and open source initiatives at 1:15. He followed up the session with project demonstrations to help participants develop a better understanding of the concepts. As the clock reached 5 PM, it marked the end of the STTP. The organising team held a valedictory function congratulating the participants on completion of the week-long training program.

Closing the Chapter

A student from VESIT, Aashirwad Bedekar (D19A), provided technical backup to the event. When asked to describe his experience, he said, "I was responsible for overwatch and technical assistance. My job was to make sure all software related things go well, playing videos, providing technical assistance to speakers and participants. But apart from this, I got an opportunity to interact with many speakers and attend their lectures indirectly in this process."

Online Tests were conducted for the participants based on all the topics discussed during the program. A minimum score of 40% was the necessary criteria for receiving a certificate of completion. All AICTE certificates were sent to all eligible participants on their registered email IDs.

Dr Ramesh Kulkarni, Deputy Head of Department of Electronics and Telecommunication (Member)

Course Coordinator:
Dr Nadir Charniya, Vice President, IIC
Course Co-coordinator:
Dr Saylee Gharge, Associate Professor, EXTC

Organising Committee:

Mr A. Naganada, Associate Professor, EXTC
Mr Shobhit Khandare, Assistant Professor, EXTC
Mrs Pallavi Gangurde, Assistant Professor, EXTC
Mrs Nusrat Ansari, Assistant Professor, EXTC
Mr Sanjay Mirchandani, Assistant Professor, EXTC
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Mr Gaurav Tawde, Assistant Professor, EXTC
Mr Ajinkya Valanjoo, Assistant Professor, EXTC
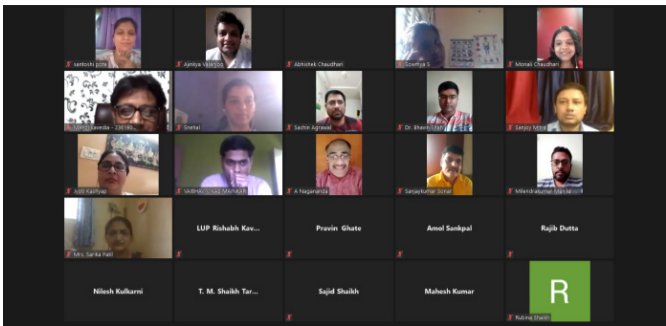
Students and Faculty from VESIT

SPICE conducts a Pranic Healing Session

-Shivani Shenai

The Department of Master of Computer Applications - SPICE organized an online orientation session on "**Pranic Healing Energy Science**" in association with **VESIT - IQAC (Internal Quality Assurance Cell)** and **VESIT - IIC (Institution Innovation Council)** for the Teaching, Non-teaching staff and Students of VESIT on the 25th of July at 4 pm. **Students' Personality, Intellect & Creativity Enhancement (SPICE)** is a society for MCA students. Their objective is to bridge the gap between campus and companies, helping to improve the overall personality development of the students.

Pranic Healing is an energy "no-touch" healing system based on the power of a person's life energy. The session was conducted by **Dr. Pratima Merchant**, who is a certified Pranic Trainer and Healer affiliated to World Pranic Foundation Philippines and the Yoga Vidya Pranic Healing Foundation (YVPHF), Maharastra. She is a retired Clinical Scientist, Sr. Faculty member of BYL NAIR Hospital.

She expressed how one can provide relief and

Dr. Pratima Merchant on Pranic Healing Energy Science

assist with stress, anxiety and sleeping problems by utilizing one's 'prana' ("energy' or 'life force'). Pranic Healing is a highly developed and tested system of energy treatment. It uses prana to balance, harmonize and transform the body's energy processes. She explained the fundamental principle of Pranic Healing, that is, the body has the innate ability to heal itself and cure itself of any health issues.

The session was conducted over a Zoom video call and was moderated by **Mrs. Dhanamma Jagli** (Assistant Professor, Department of Masters of Computer Applications). It was attended by many faculty members of the MCA Department along with over 40 students. Rohan Kumbhare (MCA3B) said, "I am very grateful for the council for organising this session. It has proven to be a helping hand in dealing with the stress and anxiety caused during the placement process." The session concluded with **Dr. Pratima Merchant** addressing the attendees' queries on Pranic Healing.

Organized by:
The SPICE-Council
Mrs. Dhanamma Jagli (Faculty Incharge-SPICE)
Dr. Shiv Kumar Goel (Deputy HoD, MCA)

Patron:
Dr. (Mrs.) J. M. Nair, (Principal, VESIT)
Dr. (Mrs.) M. Vijayalakshmi, (Vice Principal, VESIT)

Tinkers CodeCell initiative towards Android Development

-Bhavesh Lohana

Android Development has been in trend lately. With everyone stuck at their homes, there's very little to learn. But this time, **Tinkers' CodeCell** came to the rescue with an amazing Android Development with Kotlin online workshop. The workshop was held on the 7th and 8th of August. It was conducted by **Mr Siddhesh Patil** who is currently an Android Engineer at Paytm Insider.

Mr. Siddhesh Patil

Mr Siddhesh Patil is Developing apps since 2010, from Nokia's Symbian to Google's Android with occasional trips to Apple's ecosystem magic.

The workshop was successfully conducted under the supervision of **Mr Richard Joseph** (Assistant Professor, Department of Computer Engineering) and Codecell student coordinators Sujitkumar Singh (D17B) and Tina Chandwani (D17B). The workshop was attended by over 90 students. As it was a two-day workshop, the students had the chance to learn from scratch. On the first day, Mr Siddhesh Patil went over a detailed explanation of Kotlin, it's importance, and how it's better in the long run. The following day, he introduced the students to Android Studio with a hands-on experience of development of an app.

When asked about her experience about the workshop, Varsha Sablani (D12C), one of the

attendees said, "It was amazing to have such detailed insight on building apps with Kotlin. And the hands-on experience helped me to build my own app!". Later, A Q&A session had the students putting forth their queries and gaining more information. The workshop ended with a vote of thanks by **Mr Richard Joseph**.
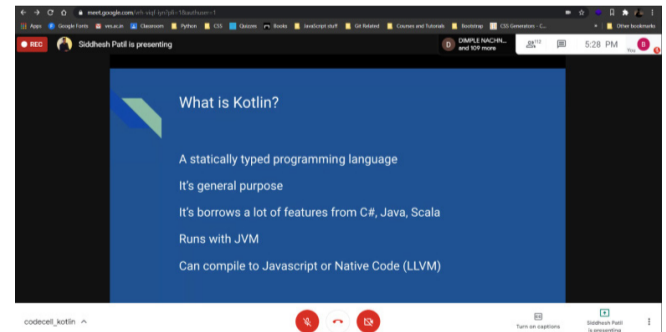
Mr. Siddhesh Patil teaching the basics of Kotlin

"Virtually nothing is impossible in this world if you just put your mind to it and maintain a positive attitude."

–Lou Holtz

Rashtriya Sadbhavana Diwas

-Shivani Shenai

The Sadbhavana (meaning - 'goodwill and bonafide') Diwas or Harmony Day is celebrated to commemorate the birth anniversary of the youngest and the most dynamic Prime Minister of India, Mr. Rajiv Gandhi. The birth anniversary of the late Prime Minister, Mr. Rajiv Gandhi on 20th August is observed as 'Sadbhavana Diwas' nation-wide every year. The main theme of Sadbhavana Diwas is to promote national integration and communal harmony among people of all religions, languages and regions, benevolence towards everyone and eschewing violence are the motto of the Sadbhavana Diwas.

This year faculties and students of Vivekanand Education Society's Institute of Technology, Chembur, celebrated the 76th Birth Anniversary by taking a pledge to work for integrity, prosperity and unity of our country. All the students and faculties enthusiastically participated and took an oath to work for the goodwill and harmony of our country by following secularism and respect for all religions, caste, cultures and creed. It definitely promoted the feeling of patriotism among all and to act as responsible citizens of the country.

Sadbhavana Day Pledge, that was taken goes as follows "I take this solemn pledge that I will work for the emotional oneness and harmony of all the people of India regardless of caste, region, religion or language. I further pledge that I shall resolve all differences among us through dialogue and constitutional means without resorting to violence."

Rohit Kundnani(D15) said, "The session was very fascinating and inspiring. We learned a lot more about our former prime minister Mr. Rajiv Gandhi, about the efforts he has taken towards communal harmony. We, the students, also took the solemn pledge to follow his example and bring a positive change in the society."

Students taking pledge along with Dr. Sushil Dhuldhar (Assistant Professor, Department of H&S)

Accolades and Adrenaline rush at Arthanomics'20

-Kaushal Jagasia

Arthanomics is the annual flagship Business and Economics festival organized by Jai Hind College, Churchgate, Mumbai. It is a unique platform for the inspired youth, where new ideas and bold action meet, to tackle contemporary issues with creativity. It is a dais to express one's vision by integrating both, an understanding of the problems as well as simultaneously finding an unorthodox solution to the issue. This year the grand fest was held online due to the ongoing pandemic and attracted registrations from all over India. It was organized from 14th to 16th August on Zoom.

A total of forty-one contingents took part in the fest, including two from VESIT. Each contingent was allowed to have a maximum of six members and had to select a name during the registration process. Atharva Gupte (D19A), Atique Kudchi (D16A), Kaushal Jagasia (D7C), Mihir Pamnani (D7C), Sahana Shetty (D10A) and Sneha Karthik (D7C) teamed up and formed Contingent Google. While Adith Nair (D19B), Avinash Tripathy (D14B), CV Ananya (D19A) and Shlok Jagushte (D11B) came together for Contingent Tesla. An individual contingent member was allowed to take part in a maximum of two events.

Arthanomics Assembly:

A team event requiring two members, Assembly put the research, problem-solving and debating skills of participants to the test in the most unique way. Avinash Tripathy (D14B) and Shlok Jagushte (D11B) represented Tesla while Kaushal Jagasia (D7C) and Mihir Pamnani (D7C) represented Google. The teams were assigned a fictional political party and were given a unique crisis related to the particular state where their party was in power. The first round consisted of making a video in which participants had to deliver a speech, addressing the crisis and suggesting solutions for the same.

In the second round, a formal policy was to be drafted by the participants. Avinash, Kaushal and Shlok felt that their MUN experience came in handy for this event. The final round was a real-time intense interactive session where participants raised questions on the policies introduced by their competitors in the previous round. Both the teams made it to the top five but fell a bit short off securing a podium place in the event.

Comic Catalyst:

Memes have become popular art created to critique and to satirise significant world events or simply even pop culture. This individual event was curated to address the unfair societal norms and challenging the disparities in our society with illustrative caricatures or witty memes. Atique Kudchi took part in this event and out of the two topics given, he chose "Glass ceiling: Gender shattering". As the name suggests, the topic dealt with gender inequality and the patriarchal society. We must realize that the world needs balance and equity as well. Atique's ingenious comic helped Team Google to claim the first place in this event.

Journalism in Jeopardy:

Mihir Pamnani (D7C) and Sneha Karthik (D7C) set out to test their ability to make an impact, elicit a gasp and grip a reader, all the while ensuring that their content is qualitative and substantial. The digital age has revealed that mainstream media has defied its purpose as a nonpartisan instrument of untarnished truth. In the first round, the pair had to represent Russia as a Chinese ally in the post-COVID world with an emphasis on a US-China trade war stance. They did so in the form of a seven-minute video presenting Russia's history, background and political stance in the trade war.

For round two, each team was assigned an opponent from the opposition alliance and the duo from Team Google were up against India (US Ally).

Adith Nair's round one submission for Marketing Maestro

They had to find loopholes and factual inaccuracies in India's propaganda by making a two-minute video. For the third and final round, the teams were expected to draft an 800-1000 words article summarising their viewpoint, fighting back the allegations made against them in the second round and introducing more facts to reinstate their propaganda which was

Poster for Arthanomics'20

Sino-Russian hegemony. After three fierce and heated rounds, the pair bagged the runners-up award in this event.

Marketing Maestros:

Adith Nair (D19B) and C.V Ananya (D19A) took the lead for Team Tesla in this unconventional event. For the first round, they had to market a product in an era where marketing as a skill found its roots which then redefined consumerism. Adith's product was Perfume for which he made a poster and a radio ad bearing the year 1920 in mind. It was the year when women in the United States got the right to vote and Adith made sure to depict this in the poster for his product.

In the second round, the participants were assigned a company and had to come up with a marketing strategy for it. Ananya was assigned Doodhwala, a fresh supplies startup based in Bangalore while Adith was vouching for Shotang, also a Bangalore based e-commerce startup which serves to connect retailers, distributors and manufacturers. The marking criteria was based on strategic decision making, originality and innovation to solve classic puzzles of marketing which also required contemporary knowledge and attention to detail. The dynamic duo of C.V Ananya and Adith Nair established their proficiency in marketing and advertising as they claimed the second and third positions respectively.

Policy Pandemonium:

Systems are run by policies which drive individuals, groups and governments. Kaushal Jagasia (D7C) and Sahana Shetty (D10B) set out to design definitive yet disruptive policies which would play a role in redefining present-day adversities. They were allotted the Ministry of Communications and were

required to study the National Digital Communications Policy 2018 in depth for the first round. A total of eighteen teams took part in a gruelling Question and Answer session which was held online.

After eliminations, only nine teams made it to the next round and the duo from Team Google were still in the mix. "The event was really demanding as we had to study about our Ministry and then the policy. We were also required to look for loopholes in the policies of our competitors for the Q&A round. Moreover, the events were scheduled in such a way that we only got around half a day to do our research." said Sahana Shetty (D10B). For the last round teams were given a crisis specific to their Ministry. Participants had six minutes to give a presentation to explain their approach and provide solutions. By intertwining their political and economical knowledge, Kaushal and Sahana impressed the panel of judges as they reached the top five positions in this event.

Tycoons of Tomorrow:

"The pessimist complains about the wind, the optimist expects it to change. The leader adjusts the sails". Tycoons of Tomorrow was an entrepreneurial event which opened the doors to the world of creativity and innovation. Sahana Shetty (D10B) and Sneha Karthik (D7C) set out to challenge their thinking and hone it to make their ideas work in order to solve the problems statements given. They came up with a dietary supplement product to curb the

Google's submission for the Social Media challenge

issue of malnutrition, which was the problem given to them in the first round. The second round was a pragmatic experience as it tested their strategies and skills under unstable economic conditions. The duo designed a strategy for a unprosperous hotel management company and explained how they planned to revamp it to the judges. Sahana and Sneha proved that they possess a mindset that sees opportunities instead of the problems created by change as they secured third place in this event.

The Arthanomics team, having a plethora of sponsors, had also organized a Social Media Challenge. Each team was allowed to choose a sponsor and make an Instagram post to boost their brand value. Team Google, with the brilliance and creativity of Atharva Gupte (D19A) and Atique Kudchi (D16A), won this challenge with their post for PharmEasy.

At the end of the three productive days with jam-packed events, which saw the participants go through sleepless nights, Atique Kudchi(D16A) summed up everyone's experience by saying, "It was fun adapting to an online medium for a competition which we actually look forward to attending in person. You get to see new places and meet new people. I would be lying if I said it didn't take away from the experience, but the fact that Jai Hind actually tried their best to make things very smooth and that the quality of events was still top-notch, it was entirely worth it. It was quite a new experience, and after all, that's why we do these things.

Team Google rounded off the event by finishing sixth in the overall standings closely followed by Team Tesla in the seventh place. Our students went into a Business and Economics fest with a technical background and yet they managed to sweep away prizes from participants who are formally studying those subjects. The junior members of both the contingents were mentored well by the seniors and they are determined to take their performances a step further the next year!

Contingent Tesla, L-R: Top to Bottom- Avinash Tripathy (D14B), CV Ananya (D19A), Shlok Jagushte (D11B) and Adith Nair (D19B)

Contingent Google, L-R: Top to Bottom- Atharva Gupte (D19A), Mihir Pamnani (D7C), Sahana Shetty (D10A), Atique Kudchi (D16A), Kaushal Jagasia (D7C) and Sneha Karthik (D7C)

Musings and Expressions

Am I audible?

-Sneha Karthik

Well I must say most of our "Good Morning students" have been replaced with this beautiful question. From the usual steps of getting up, taking a bath, dressing up, and spraying that extra load of deodorant to avoid bathing. Well right now, we all have adapted quite a lot to the herculean task of just getting out of bed . Successfully skipping all the other steps.

I must be honest, the usual hugs , throwing paper rockets, passing chits, laughing on top of your voice in class and bunking lectures are somethings we all miss and more than us I guess our teachers do. Online classes have set new standards for every one of them guess be it unmuting or typing on the Google meet chatbox.

What's My version of Online classes?

Well, I no longer have to say "May I come in Ma'am ? Sorry I am 20 minutes late. Trains were running late", My new excuse is "I have network issues.". A lot of things changed during the pandemic. Online classes turned out to be a new and exciting way to reconnect with friends and try to live the 30% of our college life. I think all of us are trying to normalize our lives and Online classes sure could do that.

The one and a half hour breaks between 2 lectures replace the canteen as we all friends sit in front of the google meet. We still have the same wonderful conversations just like we did back in college eating

Chinese samosa all crammed up in one table except this time it is some homemade lunch. We all miss college, the walls , the amphitheater, the canteen, the auditorium.

Jokes Apart,Online lectures aren't all that boring - the Boards are replaced with a white screen. The attendance remained the same. Our teachers still teach us with the same zeal and excitement. They still call our names and ask us questions and leave us speechless. Irrespective of the "I forgot my HW " , they still understand the " I have mic issues " statement every time. They still have fun asking about us and caring for us without even seeing us every day. And I think I call that a true student -Teacher Bond. "We may be apart, maybe at distance never at heart".

Covid-19

-Divya Raisinghani

Tu kyu shak kar raha hai unpar
Jo khade hai teri suraksha ke liye tatpar

Nafrat nahi dua kar unke liye
Jo kar rahe hai jaan par khelkar sewa sabki
Khada hai koi apne kandho par teri zimmedari liye
Thodi si kadr karni hai bass unki

Ye niyam teri hifazat ke liye banaye hai
Tu inhe toh mat tod
Ye bimari kisiko bhi jakad sakti hai
Tu isse dharm se toh mat jod

Aao bata de hum deshwasi iss duniya ko
Ki bharat me dharm hai anek
Par hum sabka uddeshya hai ek
Iss mahamari ko duniya se nikalna hai
Iss liye tumhe bass kuch din ghar se bahar nahi jaana hai !!

Purva Saindane(D14A)

Happiness

-Bhairavi Chavan

When you get a chocolate while very young,
Or when a christmas gift in your sock is hung,
You feel something in your heart and soul,
That something is called happiness.

When you pass an exam with excellent marks,
Or you come out in the light from a room that dark,
You feel something in your heart and soul,
That something is called happiness.

When you receive unexpected gifts,
Or you meet someone after long drifts,
You feel something in your heart and soul,
That something is called happiness.

When a guy tells you that he loves you,
Or you get an always wanted tattoo,
You feel something in your heart and soul,
That something is called happiness.

When you meet your favourite celebrity,
Or you do something good beyond your capacity,
You feel something in your heart and soul,
That something is called happiness.

When you have achieved your goals in life,
When you get settled with your husband or wife,
You know for sure in your heart and soul,
That that is the ultimate happiness!!

Raj Talashilkar(D11A)

"Being happy doesn't mean everything's perfect. It means you've decided to look beyond the imperfections"

–Gerard Way

VESIT Diaries

Ms. L Sowmyasree graduated in 2017 with a Computer Engineering Degree from VESIT . She then went to pursue a Master of Business Administration-MBA in Business Analytics and General Management from Indian Institute of Management, Shillong . Today, she works in Capgemini Technology Services, Mumbai as a Consultant with a demonstrated history of working in the information technology and services industry. Here, she converses about doing a MBA from the very renowned and much celebrated Business-school, the 'IIMs'.

1. Tell us something about your college life at VESIT?

Right from day one, life at VESIT was nothing short of an adventure! Even today 'FE-7' (where it all began) brings back a feeling of warm nostalgia. I've had the privilege to meet some amazing people during the four years most of who are still in touch today. We've had our fair share of fun in fests and outings and post college hangouts at the canteen. Conceptualizing and bringing to life the college newsletter VESIT Connect was one definitely one of highlights, from editing, re-editing and launching the first issue to signing off as the Editor in chief of the annual college magazine – Vishwakarma '17, It was all a great learning experience. Having experienced the fun and enthralling life at VESIT, I now perfectly empathize to it when Bryan Adams said "Those were the best days of my life".

2. What was the most memorable moment/time at VESIT?

This a tough one! Selecting one moment out of the hundreds of amazing times we've had is difficult but if I had to pick one it would be the fest days. Those were some of the amazing times I have spent on campus, from pre-event theme days to the upbeat and electrifying DJ nights, it was super fun. It feels like only yesterday when we were clicking pictures in our best attires and dancing our hearts out in the college Amphi!

3. How was your professional life after VESIT?

Post Engineering, I took up my campus placement offer and joined MAQ Software as a Software Engineer, worked for about a year before joining IIM Shillong to pursue an MBA. I am currently working as a Consultant at Capgemini's Insights and Data division.

4. What is the importance of extra-curricular activities in a student's life and how to manage them along with academics ? Tell us about your extra-curriculars.

I would personally lay strong emphasis on extra curriculars. They help one learn new skills and develop personality traits that may be helpful in other walks of life. During my time at VESIT and even during my two years at IIM Shillong, I've tried to be a part of a lot of extra-curricular activities like debates, quizzes, sports, corporate competitions and events etc. For me, taking part in various extra-curricular activities has helped me meet new people and learn from them, while teaching me a lesson or two in time management and prioritization.

5. Can you throw some light on some activities that a student can do which will help them build their career?

Any activity or extracurricular you pick up will definitely add value as long as you are learning some-

thing new. Even a seemingly unrelated-to-IT experience as being a part of VESIT Connect has taught me leadership and people skills that have come in handy post-VESIT. Personally, I would encourage current students to take up as many extra curriculars as you can handle without adversely affecting your academics. Go ahead and join the college club/cwwwommittee/society that interests you, get outdoors and play that sport, or simply learn a new language like I did. It will definitely pay off.

6. How was your experience of doing your MBA from IIM Shillong?

An MBA from an IIM is a great experience. It really opens you up to opportunities, not just in terms of an immediate career jump but also in terms of meeting new people and learning new skills. IIM Shillong, for example, really pays huge emphasis on building future leaders with a focus on sustainable development and business practices. In the process, the two years of MBA have really given us a better understanding of sustainable business practices – a compelling need of the hour today. IIMS has also given me opportunities to interact with various business leaders and eminent personalities through guest lecture series, corporate workshops and business conclaves. Perhaps the highlight of such interactions for me would be meeting the Chief minister of Meghalaya and inviting him as the chief guest for our Business Summit.

The two years at IIM Shillong have been greatly fulfilling, not just academically but also in the fun that we had – late night strolls around the campus, projects that start post classes and drag until sunrise the next day, the fests, the outings and all the celebrations of festivals, achievements and job offers. It truly has been an experience of a lifetime.

7. Studying from an IIM, a glorious institution, is considered to be the ideal for doing MBA in India, did the experience match your expectations? How far is the reality from the expectations?

I would say the experience far superseded the expectations, yet the reality is nothing as one would expect. Life until an MBA, and during an MBA are diametrically opposite. The work load is immense, and late nights and early starts are a common scene. Classes require preparations beforehand and there are post session assignments as well, in addition to club activities, corporate competitions, placements and fun events. The learning curve is steep, especially during the first year. But it's not all studies and serious stuff. There's something to celebrate every other day – your room mate tops the test, your best friend converted the PPO, a job offer, birthdays, festivals or just boring food in the mess (definitely calls for a pizza!). It's probably true, friendships built in a b-school really go a long way!

8. How relevant is it to do MBA in today's world?

Times are changing at an unprecedented rate, businesses are shutting down and an equal number of new business are cropping up. And at times like these, there have been more questions around whether an MBA is still relevant today. I personally believe it does. Most companies recognize the value that an MBA candidate can bring as these individuals are assumed to have strong analytical and critical thinking skills, along with good and precise decision-making, both qualities that are sought after by any business to flourish. An MBA from the right institution on the back of a strong undergraduate qualification could thus open up a plethora of

Ms. L Sowmyasree

opportunities for individuals.

That being said, I believe what's changing in the MBA education is the paradigm shift from generalization to specialization. A lot of organizations are looking for MBAs specialized in new and specific domains like supply chain management, analytics, healthcare etc and b-schools are responding proactively. A lot of MBA programs today focus on specific areas like full-fledged courses in data analytics, Sports management etc. that gives one skills to excel in these particular domains.

9. Post COVID-19, the job situation is going to be quite scary, how do you think students who'll be graduating can cope up with that?

I believe its important to stay relevant in the industry, now more than ever. And for that one needs to be up breast with the latest trends and constantly be reskilling oneself. Identifying trends and how they impact the industry you're working in/would be working in, and bridging the skill gap would be the differentiating factor among job seekers.

10. How has starting a new job amidst the pandemic been for you?

It has definitely been a different experience. A lot of campus offers had been deferred and it was an anxious wait. Capgemini however, couriered laptops and goodies to us and ensured smooth onboarding in the virtual mode with most of our initial trainings being conducted online. It did initially feel weird not meeting my colleagues and managers but video conference made up for the lack of physical meetings. Hoping to go to office and meet everyone soon!

11. Message for the new generation at VESIT!

College life is the best period. Enjoy it to the fullest. This is the time to take chances, make mistakes and learn from them. Learn at least one skill that differentiates you from the rest of your batchmates. Build friendships, college friends go a long way and are the best stress buster. For the graduating batch – things may be different post COVID, but the key to staying ahead is to stay informed. And when possible, take that grad trip you've been planning! But most importantly, have fun!