

- **Courses Conducted by Faculties**
- **Orientation Programs**

| Sr. No. | Conducted By | Course description | Organized by | Date | Number of days |
|----------------|----------------------|---|---------------------|-----------------|-----------------------|
| 1 | Dr. Abhay Kshirsagar | Mini Project | VESIT | 6st August 2020 | 1 |
| 2 | Dr. Rajani Mangala | Board of Studies | Mumbai University | 3rd August 2020 | 1 |
| 3 | Mrs. Sarika Kuhikar | Electronic Instrumentation and Measurements[Attended] | Datta Meghe | 2nd August 2020 | 1 |
| 4 | Mrs. Anushree Prabhu | Digital Logic Circuits[Attended] | RAIT | 20th July2020 | 1 |
| 5 | Mrs. Yogesh Pandit | Digital Logic Circuits[Conducted] | RAIT | 20th July 2020 | 1 |
| 6 | Mrs. Yogesh Pandit | Electrical Network Analysis and Synthesis[Attended] | RAIT | 17th July2020 | 1 |
| 7 | Mrs. Dipti Karani | Mini Project 1 [attended] | Datta Meghe | 25th July 2020 | 1 |
| 8 | Mrs. Dipti Karani | Electronic Instrumentation and Measurements[Attended] | Datta Meghe | 2nd August 2020 | 1 |
| 9 | Mrs. Amrita Jhaveri | Electronic Instrumentation and Measurements[Attended] | Datta Meghe | 2nd August 2020 | 1 |

- **Workshop/Courses Conducted by Faculties**

| Sr. No. | Conducted by | Course Description | Organized by | Date | Number of days |
|----------------|---|-----------------------------------|---------------------|---------------------------|-----------------------|
| 1 | Department of Electronics and Telecommunication in collaboration with Department of | Green Internet Of Things -Phase 3 | AICTE Sponsored | 7th to 12th December 2021 | 6 |

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| | Electronics Engineering & Instrumentation Engineering | | | | |
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● **Courses Attended by Faculty**

| Sr. No. | Attended By | Course description | Organized by | Date | Number of days |
|----------------|-----------------------|---|---|--------------------------------|-----------------------|
| 1 | Mrs. Kavita Tewari | Evolution from offline to online | Satish Pradhan Dnyanasadh ana college Thane | 30th May 2020 to 3rd June 2020 | 5 |
| 2 | Dr. Asawari Dudwadkar | STTP on sensors, IOT and ML | Somaiya college of Engg | 1 to 5 June 2020 | 5 |
| 3 | Dr. Asawari Dudwadkar | Steering HEI's in the wake of Covid -19 | VESASC college | 9 to 12th june 2020 | 5 |
| 4 | Dr. Asawari Dudwadkar | Recent Innovation in electric vehicles | GATES COE/Gooty-AP | 8 to 12 June 2020 | 5 |
| 5 | Dr. Asawari Dudwadkar | our freedom is not free | Somaiya college of Engg | 23rd June 2020 | 1 |
| 6 | Dr. Asawari Dudwadkar | Research Paper Writing & citation manager | PES, COE, Aurangabad | 21st June 2020 | 1 |
| 7 | Dr. Asawari Dudwadkar | Desirable skills for the Future | St. Joseph COE , Chennai | 27th JUne 2020 | 1 |

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| 8 | Dr. Asawari Dudwadkar | Outcome based education | IETE west zone, Navi Mumbai | 19 and 20 June 2020 | 2 |
| 9 | Dr. Asawari Dudwadkar | Joyful living | VESLARC | 29th June 2020 | 1 |
| 10 | Dr. Asawari Dudwadkar | V- Reach series | VESIT | 22, 26, 28, 30 June 2020 | 5 |
| 11 | Dr. Asawari Dudwadkar | Enabling Self reliant economy through Techno social Innovation | UNNAT BHARAT RGIT | 25 TO 27 June 2020 | 3 |
| 12 | Dr. Asawari Dudwadkar | V- Reach series | VESIT | 1 to 9 July 2020 | 7 |
| 13 | Mr. Yogesh Pandit | Sensor, IoT & Machine Learning | K.J.Somaiya college of Engineering | 1st June to 5th June, 2020 | 5 |
| 14 | Mr. Yogesh Pandit | V- Reach series | V.E.S. Institute of Technology | June 20, 2020 to 12 July 2020 (6 sessions) | 21 |
| 15 | Mr. Yogesh Pandit | Mixed Signal Circuit Design using CADENCE tool | VESIT and ENTUPLE Technologies | July 01, 2019- July 05, 2019 | 5 |
| 16 | Mrs. Sarika Kuhikar | Signal Analysis, Machine Learning, and its applications using Python and Matlab | RAIT | 1st June- 5th June | 5 |
| 17 | Mrs. Sarika Kuhikar | Internet of Things (IOT) and its Applications Industry | RAIT and B&R Automation PVT Ltd Pune | 8th June- 12th June | 5 |

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| 18 | Mrs. Amrita Jhaveri | STTP on sensors, IOT and ML | Somaiya college of Engg | 1 to 5 June 2020 | 5 |
| 19 | Mrs. Amrita Jhaveri | FDP on Electronic System Design, Modelling and Simulation | Pillai HOC college of Engineering and Technology, Rasayani | 8 June to 10 June 2020 | 5 |
| 20 | Mrs. Amrita Jhaveri | V- Reach series | V.E.S. Institute of Technology | June 20,2020 to 12 July 2020 | 21 |
| 21 | Mrs. Amrita Jhaveri | Joyful living | VESLARC | 29th june 2020 | 1 |
| 22 | Mrs. Amrita Jhaveri | Modern Educational Tools and Pedagogical Practices for online Teaching | Vidyalankar Institute of Technology | 21st to 25th June,2020 | 5 |
| 23 | Mrs. Amrita Jhaveri | AUTOMATU S 2020- make Autonomous Yours | Vidyavardhini College of Engineering & Technology | 1st June- 12th June 2020 | 14 |
| 24 | Mr. Abhishek Chaudhari | LATEX for Everyone | Ramrao Adik Institute of Technology | 18th June-20 June | 3 |
| 25 | Mr. Abhishek Chaudhari | 5G Wireless Communication system using MATLAB 5G Toolbox | V.E.S. Institute of Technology | 12th & 13th May,2020 | 2 |
| 26 | Mr. Abhishek Chaudhari | V- Reach series | V.E.S. Institute of Technology | June 20,2020 to 12 July 2020 | 21 |

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| 27 | Ms. Rakhi Jadhav | RECENT TRENDS IN DATA SCIENCE AND INFORMATION SECURITY | Ramrao Adik Institute of Technology | 22nd June to 26th June 2020 | 5 |
| 28 | Ms. Rakhi Jadhav | LATEX for Everyone | Ramrao Adik Institute of Technology | 18th June-20 June | 3 |
| 29 | Ms. Rakhi Jadhav | Internet of Things A Its application in Industry | Ramrao Adik Institute of Technology | 8th June-12 June | 5 |
| 30 | Ms. Rakhi Jadhav | Recent Trends and Applications of Machine Learning and Deep Learning in IT | Ramrao Adik Institute of Technology | 25th May - 29th May 2020 | 5 |
| 31 | Mrs. Deepti Karani | "MATHEMATICS : A Practical Approach in Science and Technology" | MSPM's Deogiri Institute of Engineering and Management Studies, Aurangabad(Maharashtra). | 28th June to 3rd July 2020. | 5 |
| 32 | Mrs. Deepti Karani | Digital Image Processing with Research Methodology | Karpagam College of Engineering, Coimbatore | 15 June- 19 June 2020 | 5 |

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| 33 | Mrs. Deepti Karani | ICT/LMS Tools for Teaching & Learning | K.C. College of Engineering & Management Studies & Research, Thane (E) | 16th June 2020 to 19th June 2020. | 4 |
| 34 | Mrs. Deepti Karani | AUTOMATU S 2020- make Autonomous Yours | Vidyavardhini College of Engineering & Technology | 1st June- 12th June 2020 | 12 |
| 35 | Mrs. Deepti Karani | Internet of Things | corporation Pradesh state skill development | 15th june-27th june 2020 | 14 |
| 36 | Mrs. Deepti Karani | RECENT TRENDS IN DATA SCIENCE AND INFORMATION SECURITY | Ramrao Adik Institute of Technology | 22nd June to 26th June 2020 | 7 |
| 37 | Mrs. Deepti Karani | LATEX for Everyone | Ramrao Adik Institute of Technology | 18th June-20 June | 3 |
| 38 | Mrs. Deepti Karani | Internet of Things A Its application in Industry | Ramrao Adik Institute of Technology | 8th June-12 June | 5 |
| 39 | Mrs. Deepti Karani | V- Reach series | V.E.S. Institute of Technology | June 20,2020 to 12 July 2020 | 21 |
| 40 | Mrs. Anushree Prabhu | Usage of Technology in COVID 19 | Terna Engineering College, Nerul | 28th May to 2nd June | 5 |

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| 41 | Mrs. Anushree Prabhu | Statistical Analysis of Qualitative data using Advance Excel for research Scholars | Rizvi College, Mumbai | (3 to 4 June) | 2 |
| 42 | Mrs. Anushree Prabhu | Emerging Education & the Industry: A post COVID- 19 perspective | RGIT, Mumbai | (1 to 5 June) | 5 |
| 43 | Mrs. Anushree Prabhu | Exploring the Dimension of Innovation, Incubation and Emerging Technologies to Embrace Post Covid Changes | Finolex Academy of Management and Technology | 8th June 2020 to 12th June 2020 | 5 |
| 44 | Mrs. Anushree Prabhu | ICT/LMS tools for teaching and learning | KC college of management and engineering Thane | (16 to 19 June) | 4 |
| 45 | Mrs. Anushree Prabhu | Enabling Self Reliant Economy Through Techno social Innovation in a perspective of Post Covid 19 Rural India | Unnat Bharat Abhiyan Cell Rajiv Gandhi Institute of Technology | 25th to 27th June 2020 | 3 |

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| 46 | Mrs. Anushree Prabhu | V- Reach series | V.E.S. Institute of Technology | June 20,2020 to 12 July 2020 | 21 |
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● **NPTEL Certifications**

| Sr. No. | Name of the Faculty | NPTEL Course Description | Organized by | Period | Score |
|----------------|----------------------------|--|---------------------|---------------|--------------|
| 1 | Dipti Karani | Essential Mathematics for Machine Learning | IIT ROORKEE | SEP-NOV 20 | 63 |
| 2 | Mrs. Amrita Jhaveri | Certificate of Appreciation from NPTEL | IITM | Jan-Dec 2020 | - |
| 3 | Mrs. Amrita Jhaveri | Body language: Key to professional Success | IITM | Sep-Oct 2020 | 85 |
| 4 | Mrs. Amrita Jhaveri | Technical English for Engineers | IITM | Sep-Nov 2020 | 84 |
| 5 | Mrs. Amrita Jhaveri | Design Thinking - A Primer | IITM | Sep-Oct 2020 | 84 |
| 6 | Mrs. Amrita Jhaveri | Enhancing Soft Skills and Personality | IITM | Feb-Apr 2020 | 87 |
| 7 | Mr. Yogesh Pandit | Digital Circuits | IIT Kharagpur | Sep-Dec 2020 | 76 |

- **Research Paper Published**

| Publication - Author List | Publication - Affiliation of Authors | Publication - Date | Publication - National / International | Publication - Journal / Conference | Publication - Name of The Journal / Conference | Publication - Organised By | Publication - Venue | Publication - Publisher | Publication - ISBN Number |
|---------------------------|--------------------------------------|--------------------|--|------------------------------------|---|----------------------------|---------------------|--|---------------------------------------|
| Dr. T. Rajani Mangala | Professor | Dec 2020 | International | Journal | Three Swarm Intelligence Algorithms for Wireless Sensor Network Applications: A review | - | - | Journal of Science and Technology | ISSN: 2456-5660 Volume 5, Issue 6, |
| Dr. T. Rajani Mangala | Professor | Sept 2020 | International | Journal | Deep Convolutional Neural Networks Approach for Classification of Lung Diseases using X-Rays: COVID-19, Pneumonia, and Tuberculosis | - | - | International Journal of Performability Engg | Vol. 16, No. 9, |
| Dr. Asawari Dudwadkar | | June 2020 | | | Automated Hydroponics with remote monitoring & control | | | IJERT | volume 9,issue 6 |

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| Mr.Abhishek Chaudhari | | Aug 2020 | International | Journal | Autonomous Car with Optimized Dynamic Range using Machine Learning: A Review | - | - | IJRASET | ISSN: 2321-9653; |
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- **Alumni Interaction**

- V-Reach (An Alumni Engagement Initiative)**

- On 22nd June i.e. first session of V-reach Mr.Nestor Lobo and Mr. Ajinkya Padwad gave us very insightful information, advice, and statistics of life during as well as after pursuing a Masters in the US. The speakers provided a real picture and gave guidance for planning for higher studies and achieving our goals. Towards the end, there was a question-answer session wherein the viewers asked questions related to entrance exams, higher studies,etc.
 - On 28th June Mr. Omkar Tulaskar cleared misconceptions that one needs to know more than C programming to be a successful electronic engineer. One needs to know micro-controllers, how to read datasheets/clear fundamentals, protocols, and code- base architecture along with C programming.Then Mr Omkar proceeded to lay down some Dos and Don'ts. He advised against writing Spaghetti Code or using Arduino IDE and libraries blindly. Instead, he advocated for Bare Metal Coding, BSP & HAL, Algorithms and GitFlow. Job opportunities like firmware developer, embedded system developer, testing and validation, IoT developer, System Integration Engineer, Automation, and Robotics to name a few, were then discussed in the presentation. Next, the topic of EV industry and its domain were discussed. He spoke on important concepts such as battery management systems, charging infrastructure, motor control units, energy storage systems,and finally OEMs like TeslaSecond speaker Mr. Rachit Pradhan further elaborated on this topic. He talked about EV,EV ecosystems, EV worldwide sales, Sub-industries in EV like Li-ion battery manufacturing, battery management, motor control, motor, and powertrain design, onboard chargers, grid-connected chargers, etc. Furthermore he talked about the macro-level challenges that the EV industry faces such as almost negligible domain experts thus needing to rely on European/American experts and also students have less exposure to practical knowledge during degree education.He advised on getting fundamentals straight, strong grip on design tools, learning to solder properly thus becoming self-reliant and encouraged students to participate in competitions. Finally, there was a joint question-answer session and Rachit explained that it isn't always necessary to start ideas from scratch, you can always build on top of already existing ideas and improve them. This session cleared some major questions the students were facing.
 - On 12th July ,Mr. Anand Ramaswami, ETRX-2006,Google and Mr. Saurabh Gandhi, ETRX-2006, AnyVision. interacted with Students. Mr. Saurabh Gandhi shared a storyline where he shared his goals as a young adult in VESIT and how his eventual exposure to the industry shaped his thoughts. Mr. Anand Ramaswami on the other hand explained all the lessons he learned from when to change industries to various skills one learns from each job role. Next, Mr. Anand explained the roles and responsibilities of a product manager with a meme and some creative slides." Does the level of requirements of soft skill directly indicate the closeness of the concerned profile to the final customer?"and "Switching gears in careers - what are your thoughts and take on that?", these were some of the few questions that were promptly taken up by Mr Anand and Mr Saurabh "Experience is a true source of knowledge." Quite a few students felt a need to learn more about how to go about with life and career right after graduation. The session was definitely helpful and cleared a lot of minds.

- **Student Participation**
- **Workshops/Seminars**

The Tinkerer's lab of electronics department (VESIT, Mumbai) conducted a workshop on Analog, Digital electronics and PCB designing. The workshop was conducted spanning a period of three days from 22nd August to 24th August 2020 with each interactive hands-on session lasting about two and a half hours each on Google meet platform.