

HOPE FOUNDATION'S
FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI



(APPROVED BY AICTE, RECOGNIZED BY DTE AND AFFILIATED TO MUMBAI UNIVERSITY)

TELE-CONVERSE

Bi-annual Newsletter
OF

ELECTRONICS AND TELECOMMUNICATION
ENGINEERING DEPARTMENT

VOLUME 5, ISSUE 2, (1 JULY 2021 - 31 DECEMBER 2021)



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List of Faculty/Staff Members in the Department

Faculty Members

1. Prof. (Dr.) Sharada V. Chougule (Associate Professor)
2. Prof. Giri S. Kulkarni (Associate Professor)
3. Prof. Mansi S. Kolwankar (Assistant Professor)
4. Prof. Sujay D. Mainkar (Assistant Professor)
5. Prof. Suhasini S. Goilkar (Assistant Professor)
6. Prof. Rashmi R. Kulkarni (Assistant Professor)
7. Prof. Neha S. Sakhalkar (Assistant Professor)
8. Prof. Vinayak D. Chavan (Assistant Professor)
9. Prof. Asmita A. Chavan (Assistant Professor)
10. Prof. Vijay M. Galshetwar (Assistant Professor)
11. Prof. Saurabh S. Athalye (Assistant Professor)

Staff Members

12. Mr. Sandip R. Pardule
13. Mr. Paresh Sambare

Vision

- ❖ To develop competent professionals who will be able to contribute effectively to the advancing electronics & telecommunication technologies.

Mission

- ❖ To provide quality education through practical knowledge and technical skills.
- ❖ To strengthen industry interaction to meet current and future trends.
- ❖ To inculcate teamwork spirit, leadership qualities and human values.

Program Educational Objectives (PEOs)

PEO 1	Integration of knowledge	Integrate fundamental knowledge in mathematics & basic engineering sciences to solve real life technical problems.
PEO 2	Implementation and testing	Train students to understand the concepts of simulation, synthesis, implementation and testing to create and analyze different projects in the various fields of Electronics & Telecommunication engineering.
PEO3	Ethics and Human values	Nurture students for effective communication, cultured mannerism, ethical values, and teamwork and entrepreneurship skills.
PEO4	Professional development	Encourage professional development including higher education to produce graduates who will pursue lifelong learning.

Program Specific Outcomes (PSOs)

PSO1	Utilization of Domain specific knowledge	Students will be able to showcase knowledge gained in the domains of communication engineering, signal processing, RF/microwave engineering, semiconductor technology, digital and embedded systems.
PSO2	Awareness and adaptability to	Gain awareness regarding design skills, software packages and telecom standards.

	recent trends	
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Highlights of the Department

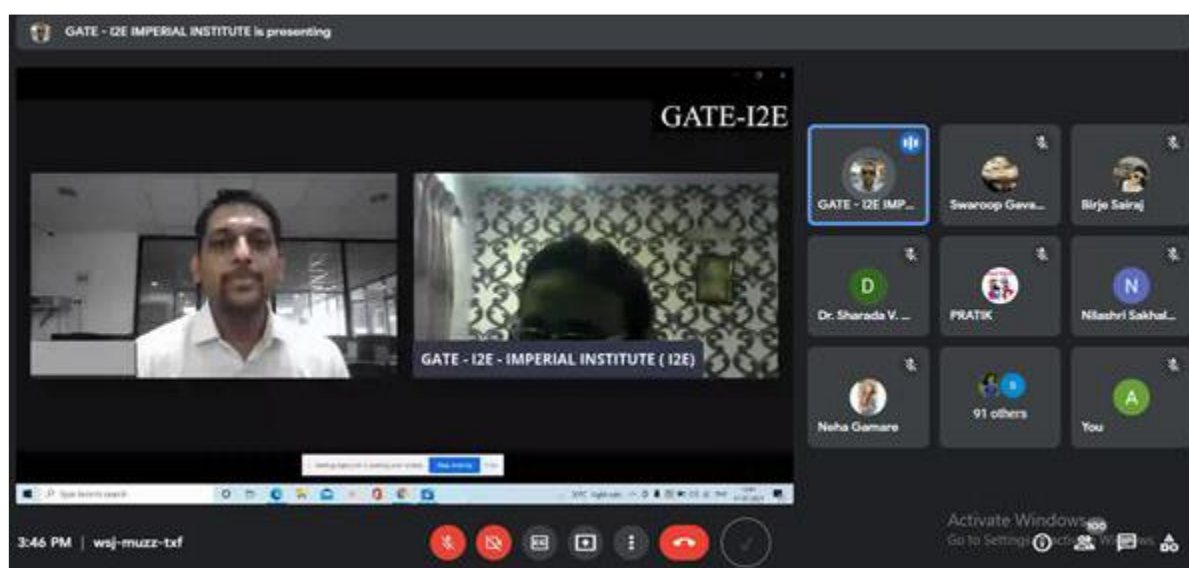
- ❖ Intake of 60 students
- ❖ Well qualified Teaching faculty and experienced Lab assistant
- ❖ 08 Spacious Laboratories
- ❖ State of the art Equipment / instruments
- ❖ Plenty of electronic components and consumables 55 PCs with good configuration
- ❖ Well Equipped PCB Design Lab
- ❖ Seminar Hall
- ❖ LCD Projector
- ❖ Departmental Library with approximately 200 titles
- ❖ Regular conduction of workshops, Seminars, Training Programs and Competitions
- ❖ Alumni placed worldwide in renowned companies like IBM, Infosys, Tech- mahindra, L&T-Infotech, Capgemini, Cognizant, TCS, Vodafone, Flex etc.
- ❖ Alumni working as Entrepreneurs

Programs organized by the Department

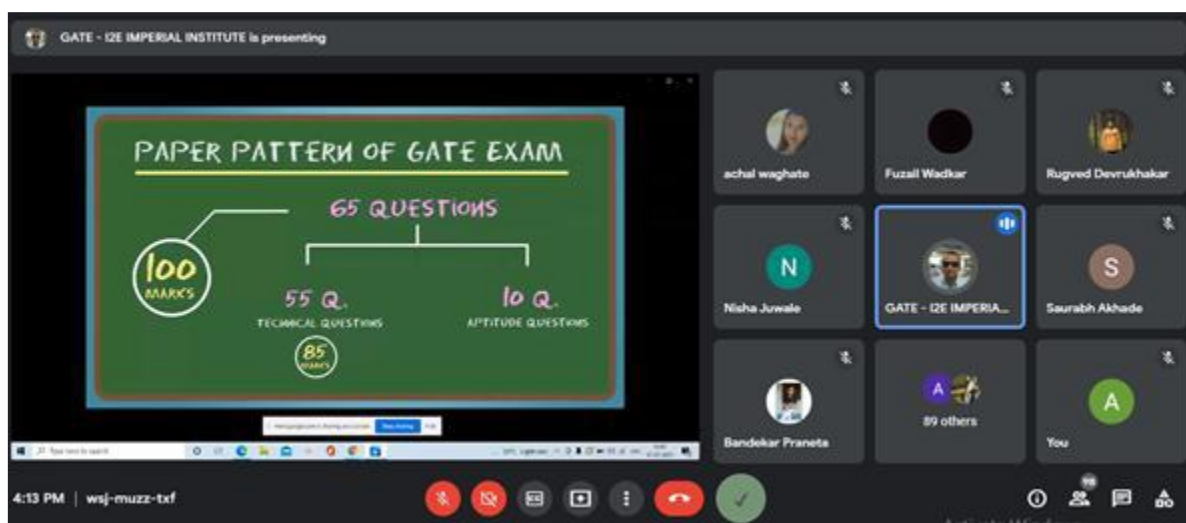
1. Gate Awareness Program

Department of Electronics and Telecommunication Engineering organized a 'Gate Awareness Program' on 17 July 2021, Saturday, from 03.00 pm to 05.00 pm, through online mode. The event was organized to aware students regarding Gate Examination, and its direct and indirect benefits. Mr Paresh Gugule, Founder and Director-I2E-Imperial Institute was the speaker of the program. Dr S. V. Chougule, HoD EXTC welcomed Mr Paresh Gugule. The students of EXTC, Electronics, Electrical and IT departments were present for the event. Mr Paresh Gugule explained the importance of the Gate examination and its advantages. He also explained future opportunities after clearing the Gate examination. This program served the following objectives:

1. To spread awareness about 'Gate Examination and its Direct and Indirect Benefits' among students.
2. To convey key rules, examination patterns, syllabus etc. to students.
3. To give information about Government schemes and MS etc.



Program speaker guiding students regarding Gate Examination



Program speaker guiding students regarding Gate Examination

2. Add-On Course on “How to Choose and Prepare Final Year Project”

The Department of Electronics and Telecommunication Engineering organized an Add-on course on “**How to Choose and Prepare Final Year Project**” for final year EXTC students on **23 July 2021, 31 July 2021 and 07 August 2021**. The course covered the following points:

1. How to choose final year project
2. Industry based project topics
3. Literature survey
4. Writing a Review Paper
5. Writing a Full-length Paper
6. Plagiarism Checking
7. Preparing an Effective Powerpoint Presentation

The Add-on course was attended by a total of 66 students. The program began with the felicitation of **Mr Samarjeet Chavan**, Director, Jeet Fortuneline Pvt. Ltd, Sangali by **Dr S. V. Chougule**, Head of Electronics and Telecommunication Engineering Department.

In the first session, Mr Samarjeet Chavan suggested Industry based project topics and explained various applications in the fields of image processing, biomedical, agriculture etc. He also

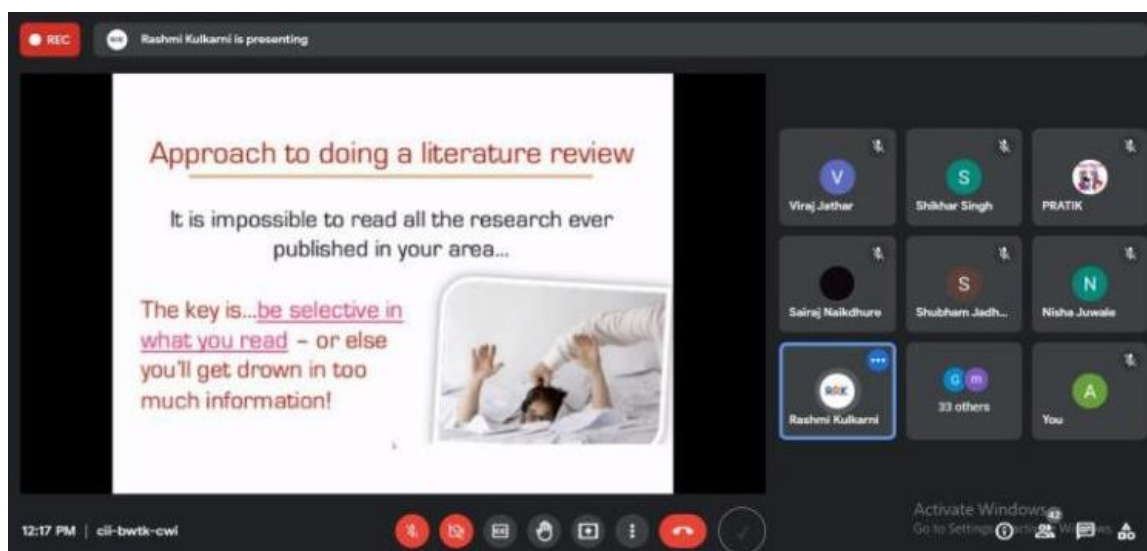
guided students regarding different sensors, development boards and open-source programming tools. This helped students to explore applications of Raspberry-Pi board in IOT based projects.

In the second session, HoD, Dr S. V. Chougule explained various project topics in the field of image and video processing, speech processing. HOD also discussed the need to choose a proper controller for IoT based and image processing related projects. she also suggested choosing project topics related to needs or solutions to social, environmental, agricultural, and local industry problems. Prof. V.D. Chavan explored some projects related to the medical domain.

In the third session, Prof .R. R. Kulkarni guided students about how to do a literature survey effectively and how to write a review paper, full-length paper and how to prepare an effective PowerPoint presentation. She also highlighted the procedure to publish their work in reputed journals and conferences.

In the same session, Prof. A. A. Chavan demonstrated plagiarism checking. Explained common mistakes which students make while writing project reports and how to avoid them. He also asked students to keep a record of activities of project work weekly in a logbook.

The course ended with a vote of thanks by Prof. R. R. Kulkarni.



Program speaker guiding students regarding Literature review

3. Linux for Networking and Server Configuration

The department of Electronics and Telecommunication Engineering, Finolex Academy of Management & Technology, Ratnagiri, organized a 5-day Online Value-Added Course on “**Linux for Networking and Server Configuration**” from 9th August to 13th August 2021, Time: 03.00 p.m. to 05.00 p.m. for the Third and Final year students of the department. The resource person for the course was **Mr Ninad Naik**, Cross Stack System Software Development Engineer at **Intel Corporation**, Bengaluru, Karnataka. Linux is the world's largest and most pervasive open source software project in history. Running in 75% of stock exchanges worldwide, nine out of ten of the world's supercomputers run Linux, empowering the servers that enable Amazon, Facebook, Twitter, eBay and Google. Considering the importance of Linux, the department organized a five-day Value-Added course for the students of the department.

The main objectives of the course were:

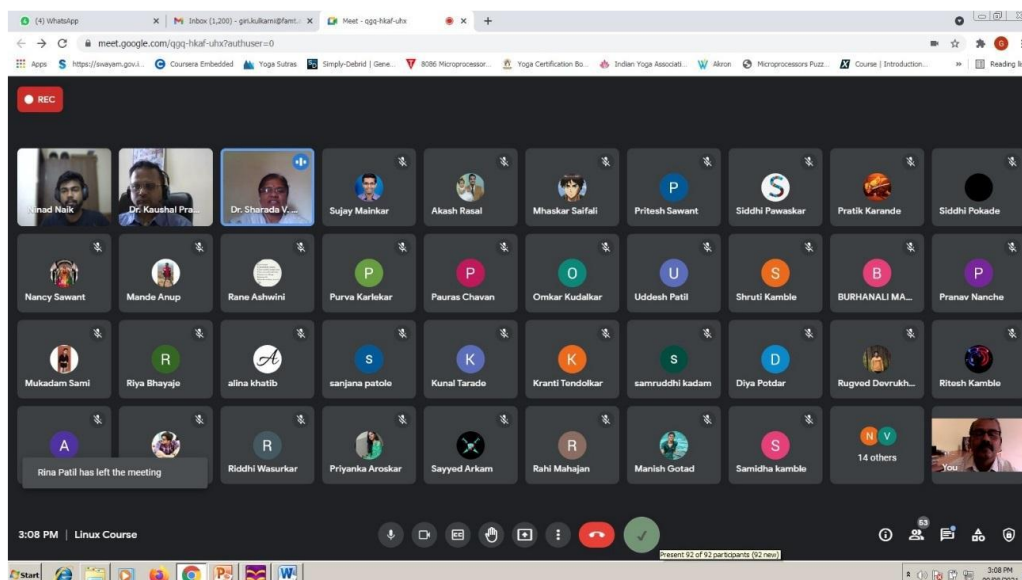
- Installation Linux and understanding of Linux commands.
- To understand Shell script programs.
- Implementation of different Servers and configurations.

The course contents covered in five days are:

- Linux Overview, Steps in Installing and Configuring Linux (Ubuntu 21.04), Linux Standard Directories
- Basic Operating System Concepts, File Management, Process Management, Memory Management.
- Using Linux command line terminal, important commands and Shell scripting
- Linux Administration - User management, Admin commands, Managing various permission/Ownership.
- Server Configuration on Ubuntu- DHCP, FTP/TFTP

The program started with a welcome and introduction of resource person by Prof. Giri S.Kulkarni. HOD EXTC Dr Sharada V. Chougule explained, in brief, the objectives of organizing the Value-added course. Principal Dr Kaushal Prasad shared the importance of additional training programs for updating knowledge of rapidly changing technologies. 59 students from TE and BE have taken the advantage of this online value-added course

through Google Meet. The main objective behind organizing this Value-added course was to provide insights into Linux, Server configuration and Networking. These sessions included theoretical concepts along with the live demos. **Prof. Giri S. Kulkarni**, Associate professor coordinated the training program under the guidance of **Dr Sharada V. Chougule**, Head of Electronics and Telecommunication Engineering Department and the encouragement of Honorable Principal **Dr Kaushal Prasad**.



Inauguration of the 5-day Value-added course on Linux for Networking and Server configurations



Resource person Mr Ninad Naik, Cross Stack System Software Development Engineer at Intel Corporation, Bengaluru, Karnataka.

4. E&TC Establishes a Center of Excellence in Computer Vision

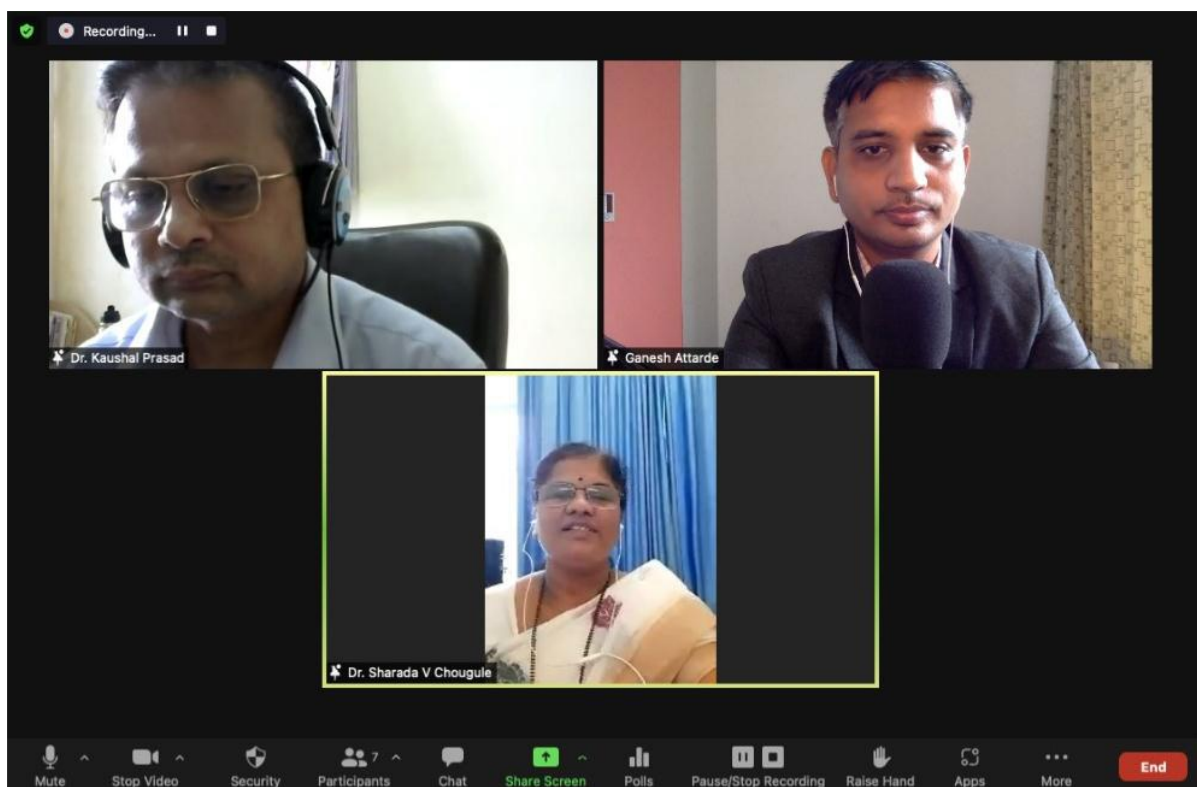
The Department of Electronics and Telecommunication signed a Memorandum of Understanding (MoU) with GB Softronics Solutions, Nashik on 23 Aug 2021 to form a Center of Excellence in Computer Vision using Open CV. GB Softronics Solution is specialized in Embedded Programming, Customized Embedded Applications, Customized Software Development. The company also provides placement based training and internships for students, as well as training for faculty members through Faculty Development Programs which are based on practical aspects. Mr Ganesh L Attarde is the Founder and CEO of GB Softronics Solutions, Nashik.

Under the MoU to form the Center of Excellence in Computer Vision, GB Softronics will coordinate training programs for students as well as for faculty members. The company will also provide a platform for internships and research-based activities.

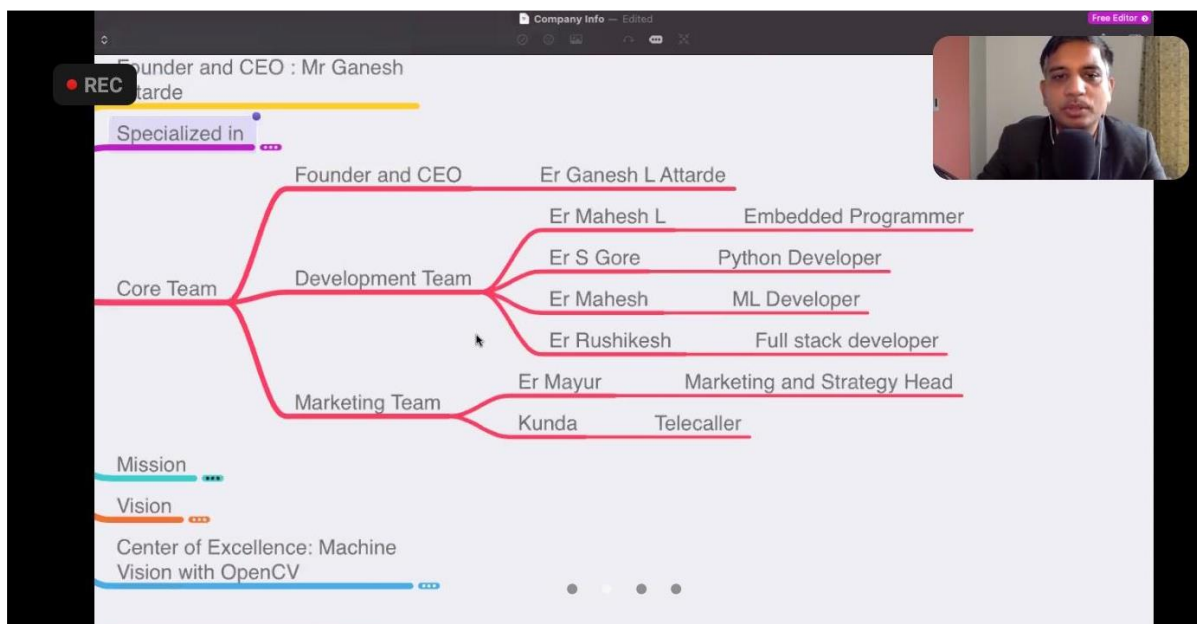
The objectives of the formation of the Center of Excellence in Computer Vision are:

- To enhance the practical knowledge and to develop research culture among students in the field of Image and Video Processing using Machine Learning.
- To provide internships and placement oriented training to students.
- To provide training for faculty members in thrust areas like IoT, Embedded Development and Machine Learning.

The program was started through an online platform with the welcome and introduction of the founder and CEO, Mr Ganesh Attarde. HOD EXTC Dr Sharada V. Chougule explained briefly the objectives of signing the MoU for the Center of Excellence in Computer Vision. Mr Ganesh Attarde (CEO, GB Softronics) explained the company profile as well as support and activities to be carried out through the CoE. Principal Dr Kaushal Prasad shared his views regarding the importance of industry-academia collaboration to catalyse innovation and growth in technology. Faculty members and staff of the EXTC department were also present for this online event.



Dr Sharada V Chougule HOD EXTC briefing about the formation of Center of Excellence in Computer Vision using OpenCV



Mr Ganesh Attarde (Founder and CEO of GB Softrionics Solutions) discussing the company profile

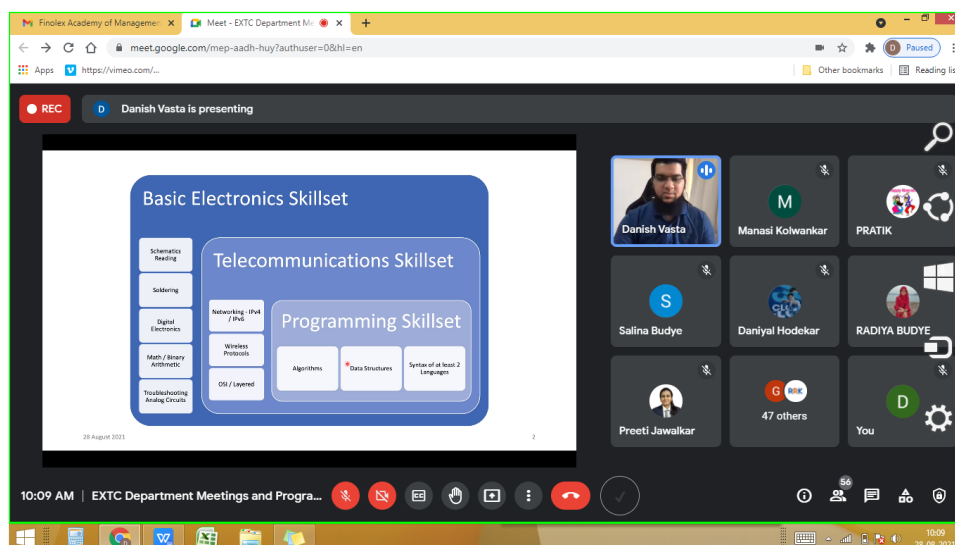
5. Alumni Session on Career Opportunities in Embedded Engineering

An Online Alumni Session on 'Career Opportunities in Embedded Engineering' was organized by the Electronics and Telecommunication Engineering department on 28th August 2021. Mr Danish Vasta, Senior Firmware Engineer at Western Digital, Bengaluru and an alumnus of the EXTC 2016 batch delivered the session for T.E. and B.E EXTC students through Google Meet.

The main objectives of the Alumni interaction session were:

1. To create awareness about industry expectations (skill sets) for EXTC students
2. To explore Career opportunities in Embedded Engineering

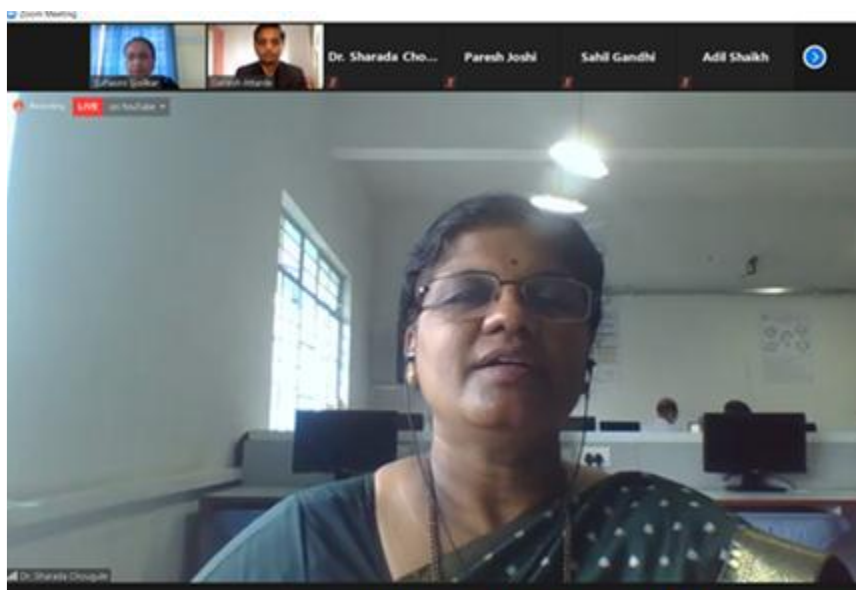
It was attended by 50+ students of T.E. and B.E. EXTC along with the faculty members of the department. The session helped students to know about different opportunities in the embedded field and basic skill sets in electronics, telecommunication and Programming. Mr Danish Vasta highlighted the role of testing engineers in the industry and briefed about key skills employers looks for in the field of Embedded Engineering. He also explained how final year projects should be selected and executed along with the importance of self-learning while doing the projects. The session was superintended by the Head of Electronics and Telecommunication Engineering Department, Dr S. V. Chougule along with Prof. Mansi Kolwankar as the Departmental coordinator. The participants interacted with Mr Vasta and also showed interest in attending alumni sessions in future.



A glimpse of the presentation by Mr Danish Vasta (the Resource Person and Alumnus of EXTC)

6. Online Training Program on Image and Video processing using OpenCV Under Center of Excellence in Computer Vision

With the support and motivation from Principal Dr Kaushal Prasad, Finolex Academy of Management and Technology, the Online Training Program on Image and Video Processing Using OpenCV Python was organized under the Center of Excellence in Computer Vision by Electronics and Telecommunication Engineering Department (EXTC) from 27th September to 1st October 2021 from 03.00 p.m. to 05.00 p.m. Open CV Python is one of the most widely used tools for image processing and computer vision tasks. It is used in various applications such as face detection, video capturing, tracking moving objects, object disclosure and nowadays in Covid applications such as face mask detection, and social distancing. The objective of the online training program was to enhance the practical knowledge and to develop research culture among students in the field of Image and Video Processing using Machine Learning and to provide internships and placement-oriented training to students. In these five days, the training program covered OpenCV introduction, Installation, PyCharm IDE Introduction, Image Read, Image Display, Image Properties, Write an Image, Capture Video from a camera, Playing video from a file, saving a video, Drawing functions line, rectangle, circle, ellipse, polygon, adding text to image Basic Operations on images, Region of interest, Arithmetic Operations on Image, Capture Image from Video for image processing, Setting camera Parameters, Show date and time on video, Object Detection and Object Tracking using HSV Color Space, and Case Studies: Face Detection using Haar Cascade Classifier, Eye Detection using Haar Cascade Classifier, and Object Detection using Yolo classifier covered with practical implementation. The resource Person Mr Ganesh Attarde, Founder and Director GB Softronic Solutions, Nasik; conducted the five days training program. Prof. S. S. Goilkar, Faculty coordinator of this training program welcomed the speaker and all participants. Dr S. V. Chougule, HOD EXTC Department graced the inaugural program and delivered the keynote address about the Center of Excellence in Computer Vision and also briefed the objectives of the formation of the centre of excellence. Page 2 of 3 An Online Quiz was conducted at the end of the training program. The training program was coordinated by Mrs S. S. Goilkar, of EXTC Department, under the guidance of HOD EXTC Dr S.V. Chougule. A total of 87 participants from SE to BE actively completed the training program and share their feedback.



Dr Sharada V. Chougule HOD EXTC inaugurating the Training program



Resource person Mr Ganesh Attarde, demonstrates real-time applications of image and video processing

7. Parents Meet for S.E. Electronics & Telecommunication Engineering

The department of Electronics and Telecommunication Engineering recently conducted a Parents Meet for S.E. Electronics and Telecommunication (2021-22 batch) on 03 October 2021 through Google Meet. The meeting commenced in the presence of the Principal - Dr Kaushal Prasad, Head of the department- Dr Sharada V. Chougule alongwith the Class Teacher, Subject Teachers and Mentors. The parents were welcomed for the meet by class teacher Prof. S. S. Athalye. It was followed by an address by Principal Dr Kaushal Prasad, wherein he emphasized various points like Purpose of parent meet, Introduction to FAMT, Training activities,

Placements and Higher Education details, Institute Recognitions and Expectations from Parents. After that, the Head of the department Dr Sharada .V. Chougule addressed on Introduction to the department, Vision-Mission, Teaching-Learning process, Co-curricular and extracurricular activities, Mentoring system in the department, Alumni interaction and achievements of the faculty and students.

Many valuable suggestions from the parents were duly noted down for future reference. The parents appreciated many activities of the department and suggested continuing the same. Online feedback forms were also circulated amongst parents. The session concluded on a vote of thanks delivered by Prof. S. S. Athalye.



Principal - Dr Kaushal Prasad presenting his views during the parent meeting

8. Parents Meet of Electronics and Telecommunication Engineering

Department for T.E. SEM-V (Year-2021-22)

The Department of Electronics and Telecommunication Engineering conducted a Parents Meet for T.E. Electronics and Telecommunication Engineering, batch (2021-22) on 17 October 2021 through Google Meet. The meeting commenced in the presence of the Principal - Dr Kaushal Prasad, Head of the department- Dr Sharada V. Chougule along with the Class Teacher- Mrs Suhasini S Goilkar, Faculty members and Mentors.

The parents were welcomed for the meet by the Head of the department- Dr Sharada V. Chougule. It was followed by an address from Principal Dr Kaushal Prasad, wherein he highlighted various points like Purpose of parent meet, Introduction to institute, importance of

Training activities, Placements and Higher Education details, Institute Recognitions, involvement of parents in students academic progress.

The Head of department Dr Sharada .V. Chougule addressed all parents giving an Introduction of the department, department faculty, labs etc. The HOD also shared department vision, Highlights of the department, Teaching-Learning process, Co-curricular and extracurricular activities, Mentoring system, Alumni interaction and achievements of the students and faculty members.

The parents appreciated efforts taken by the institute and department for the overall development of their wards and suggested continuing the same in future. Suggestions were given by the parents and were noted for further reference. The meeting concluded with a vote of thanks by the head of the department Dr Sharada .V. Chougule.

Teaching Learning

Syllabus

FAMT

Semester Pattern with 5/6 subjects in each semester

Semester पद्धती, एका वर्षात 2 मध्ये प्रत्येक Semester सा 5/6 विषय

70+

University Rankers

70 पेक्षा अधिक विद्यार्थी

University Rankers

Knowledge addition

coursera

Red Hat

सुमो डिजिटल

CISCO Networking Academy

aws

UiPath

mva

Teaching-Learning methods

CREATE TALK

PBL

FLIPPED CLASSROOM

Role Play

Dr. Kaushal Prasad

Address by Principal Dr. Kaushal Prasad during the parent meeting



HOD Dr. Sharada V. Chougule presenting department information and activities

9. A Webinar on Future in Electronics as an Entrepreneur in Association With IIC, FAMT

In the 21st century, no one can imagine life without the presence of electronic appliances. Electronics knowledge and machinery are empowering our world in the present time. Innovation in electrical technology has transformed the way of working and entertainment in every aspect. Electronics is the domain of engineering that includes the designing and practical application of equipment & machinery for systematic communication. All appliances of electronics allow the transmission of power and information. Electronic devices come in all sizes from mini-Bluetooth headphones to large electricity-generating transformers.

With the support and motivation from Principal Dr Kaushal Prasad, Finolex Academy of Management and Technology, a Webinar on "Future in Electronics as an Entrepreneur" was organized by Electronics and Telecommunication Engineering Department (EXTC) in association with IIC, FAMT, on 19th October 2021, Time 4.00 pm. The webinar aimed at creating awareness in students to choose their career as an Entrepreneur and opportunities in the core Electronics field.

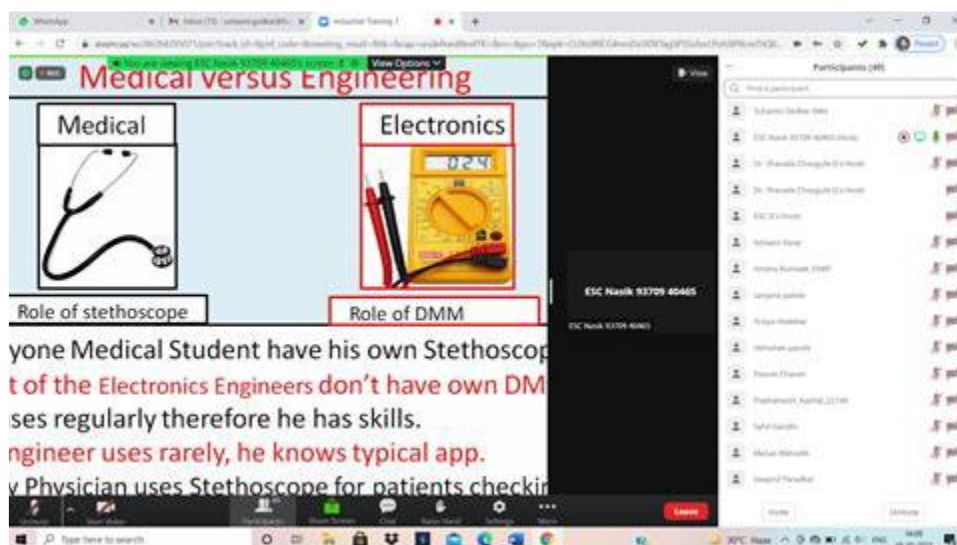
The Objectives of Webinar:

1. Improve Awareness of opportunities and benefits of Entrepreneurship among students.
2. Realize dream business through innovative products.

Dr Sharada V. Chougule, HOD EXTC Department, graced the inaugural program and delivered the keynote address stating the importance of hardware courses in syllabus such as Electronic Devices and Circuits, Embedded systems, considering growing demands in electronics manufacturing industries. Mr Sanjay Chaudhari, Director, Electronics Study Center Nashik; B. M. Electronics Nashik. R & D on Core Electronics and Manufacturer delivered the webinar. The Webinar was coordinated by Mrs S. S. Goilkar, of EXTC Department, under the guidance of HOD EXTC Dr Sharada V. Chougule. A total of 54 participants from SE, TE and BE attended the webinar program. The students actively participated in the webinar program and shared their feedback on this webinar program.



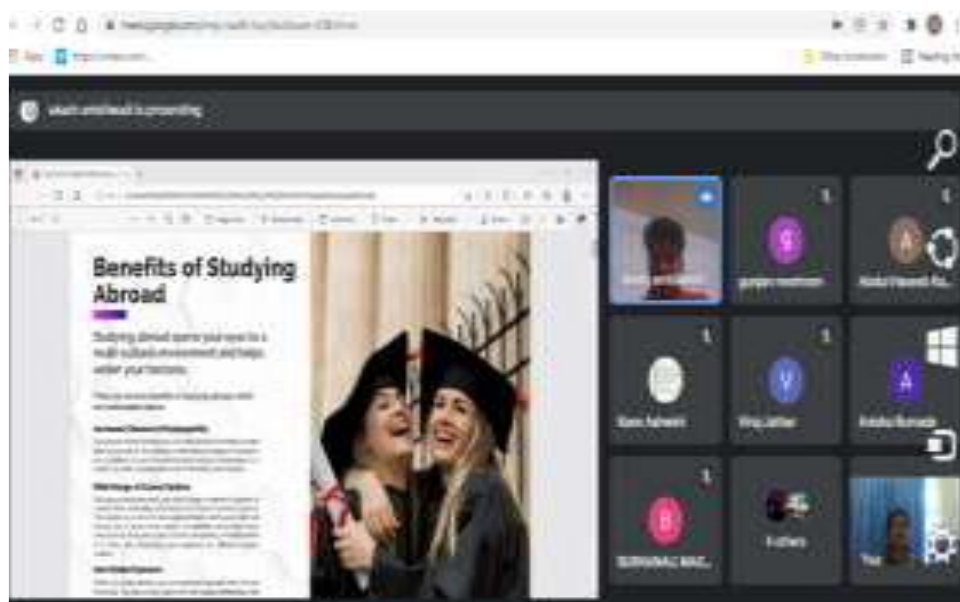
Dr Sharada V. Chougule HOD EXTC inaugurating the Webinar program



Resource Person Mr Sanjay Chaudhari, delivering the Webinar program

10. An online session on Overseas Career Guidance for the students

The Department of Electronics and Telecommunication Engineering organized an online session on Overseas Career Guidance for the students on 09 December 2021. The event was organized to provide information about higher education abroad. Mr Akash Ambiwade, Overseas Education Counselor and Ms Gunjan Meshram, Alumni EXTC were the resource persons for the event. Dr S. V. Chougule (HOD-EXTC department) introduced the resource persons. Mr Akash Ambiwade and Ms Gunjan Meshram explained the importance of higher education abroad and its benefits. They also conveyed information related to the preparation of a strong Biodata, financial requirements, job opportunities etc. They also provide guidance about the universities abroad, how to select universities, compulsory entrance exams for post-graduation and the opportunities available in India on completion of post-graduation abroad.



Session delivered by Mr Akash Ambiwade and Gunjan Meshram

Faculty Achievements

1. Dr. Sharada V. Chougule has attended AICTE sponsored one week online Short Term Training Program on "Natural Language Processing with Google AI and Dialog flow and its applications" conducted from 21st to 26th June, 2021.
2. Dr. Sharada V. Chougule has successfully completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "RECENT TRENDS IN CYBER SECURITY DOMAIN" from 5th to 9th July, 2021 at Manonmaniam Sundaranar University.
3. Dr. Sharada V. Chougule has successfully completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence for Computer Vision" from 12th to 16th July, 2021 at Indian Institute of Technology, Roorkee.
4. Dr. Sharada V. Chougule participated in the workshop titled “Multilingual and Code-Switching ASR Challenges for Low Resource Indian Languages(MUCS) 2021” held virtually on 12th to 13th, August 2021.
5. Prof. Suhasini S. Goilkar presented a paper titled “Orthopantomographic X ray defocused image Restoration with blind and nonblind deconvolution for diagnostic use in Dental Application ” in International Conference on Communication, information and Computing Technology (ICCICT- 2021) during 25th to 27th June, 2021.
6. Prof. Suhasini S. Goilkar presented a paper titled “Defocused image Restoration using Wiener and Inverse Filter in Context of Security Application” in 3rd International Conference(Online) on Innovations in Communication Computing and Sciences (ICCS- 2021) during 27th to 28th August, 2021.
7. Prof. Suhasini S. Goilkar appreciated as a Reviewer/Member of the Technical Program Committee for the 4th International Conference on Futuristic Trends in Networks and Computing Technologies(FTNCT-2021) during 10th to 11th December, 2021.

Student's Achievements

1. Mr. Amey Sushil Chavekar won Second prize under hardware section in National level project presentation - PUROJEKUTO 2k21 held on 1 November 2021 .

2. Mr. Amey Sushil Chavekar won 1st prize of Rs: 50000 for Best by Design Category' for 'Robotic Shadow' in India Automation Challenge 2021 contest, powered by Circuit Digest conducted on 31 December 2021.

Placements of the department

Sr.No	Name of the Student	Company
1	Deena Solkar	Cognizant
2	Saurabh Tendulkar	TCS
3	Neha Kasar	TCS
4	Pragati Pawaskar	TCS
5	Adnan Ibji	TCS
6	Pratikesh Jadhav	TCS
7	Komal Mahindre	Wipro
8	Mayuri Jadhav	Kanekar Consulting Engineers
9	Siddhi Gothankar	Kanekar Consulting Engineers
10	Jay Tathare	Kanekar Consulting Engineers
11	Aishwarya Narvekar	Flex
12	Uzma Mhaskar	Flex
13	Komal Sawant	Flex
14	Adnan Ibji	Flex
15	Apurva Pawaskar	Flex
16	Hrutuja Shinde	Flex
17	Deena Solkar	L & T Infotech

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