

**FINDLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI**

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



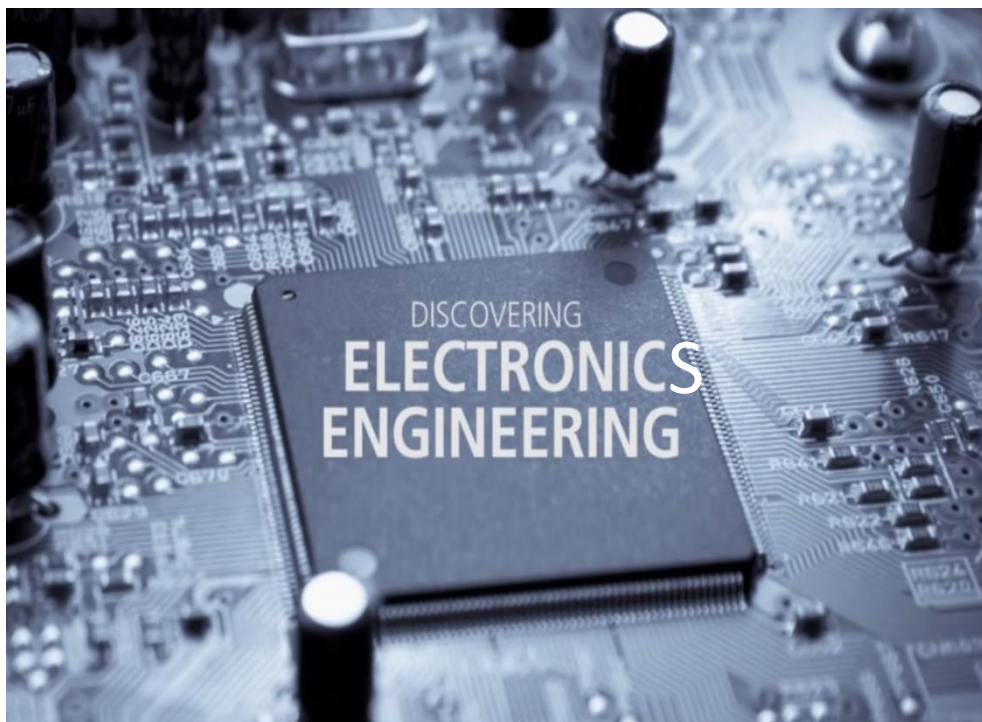
# ***ELECTRONICA***

**NEWS-LETTER**

**OF**

**ELECTRONICS ENGINEERING DEPARTMENT**

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**Prof. Girish G.Bhide (HOD)**

**Prof. Vrishali V. Nimbalkar**

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## List of Faculty/Staff Members in the Department

### Faculty Members

1. Prof. Girish G. Bhide (Associate Professor)
2. Prof. Vrishali V. Nimbalkar (Assistant Professor)
3. Prof. Amol R. Sutar (Assistant Professor)
4. Prof. Sandeep R. Nalage (Assistant Professor)
5. Prof. Mahesh A. Jadhav (Assistant Professor)
6. Prof. Rahulkumar P. Tivarekar (Assistant Professor)
7. Prof. Ashish B. Vartak (Assistant Professor)
8. Prof. Rupesh B. Ingle (Assistant Professor)

### Staff Member

Mr. Bharat M. Biradar

## **Vision**

- ✚ To become a leading center of knowledge and produce graduates who can adapt to ever growing field of electronics and integrated technology.

## **Mission**

- ✚ M1: To strengthen teaching-learning process and provide state of the art resources to help the students acquire global competency.
- ✚ M2: To offer technical skills, creativity, and integration to help the students to solve real life problems.
- ✚ M3: To provide value addition training programs such as soft skills, social and ethical values for all around development of the students to become successful in competitive career.

## **Program Specific Outcomes (PSOs)**

- ✚ Students shall acquire knowledge in analog circuit design, digital system design, microcontroller programming, instrumentation, and VLSI chip design.
- ✚ Students shall utilize Electronics Engineering knowledge to create and design innovative products and solutions for real life problems.

## **About The Department**

Department of Electronics Engineering was established as the first Engineering department of FAMT in 1996. Department has 08 faculty members experienced and post graduates from renowned institutes like IISc, COEP, VJTI, etc. Faculty has several publications, books and industry projects to their credit. Department encourages faculty to attend conferences, seminars and workshops so that they can enhance their knowledge and remain updated with the current changes in engineering field, which will help them to carry out their research and development activity and also impart quality education to

students. Also all of the faculties undertake NPTEL on-line courses which are conducted by IIT's and IISc and have secured top 1%, top 5% ranking score and Elite scores for the courses undertaken by them. Department has a separate Departmental library, well-equipped 8 laboratories, wi-fi facility, ICT enabled class-room and a study friendly environment. Along with regular curricular teaching, department organizes workshops, course-enrichments, seminars and add-on courses on regular basis to impart additional knowledge to students, enhance their technical skills so that they can adapt to current industry requirement. Industrial training and Industrial visits are highly encouraged by the Department. A technical event named "Electrofocus" is organized by department students committee (Electronics Student Technical Association-ESTA) every year so that along with technical skill development they learn management skills and also learn to be a responsible person.

Being the first department established in Finolex Academy in the year 1996, it has produce large number of highly accomplished and notable Alumni who are spread across the globe working as professionals in national and multinational companies, some into research and development, some into academics and some as entrepreneurs.

### **Scope and Opportunities in Electronics Engineering**

Electronics Engineering has a major role to play in virtually every industry. Electronics Engineers are involved in designing, creating, developing, fabricating, testing and supervising an extensive variety of technologies required for computers, mobile phones, robotics, automated systems, integrated circuits (IC's), television, radio, as well as various other electronic gadgets and appliances, tracking devices, electric motors and power generators. The field of electronics covers a wide range of applications and devices which make our life easier and enjoyable by helping to collect, distribute, control & transmit information. Electronics Engineering is crucial in increasing productivity in the industrial sectors like oil, energy, agriculture, steel, petroleum, and chemical. These industries depend on electronic systems for daily processes and functions. The health-care sector relies heavily on Electronics Engineering. It also has major contribution in ensuring safety in transportation, industries and houses. Job opportunities for Electronics Engineers

in government and public sector are listed as follows DRDO, HAL, ISRO, BEL, IOC, ONGC, BSNL, MTNL, Indian Railways, All India Radio and in all those sectors where there is automation.

### Highlights of the Department

- ✚ Workshops, course enrichment, add-on courses and project based learning is conducted on regular basis to enhance employability of student.
- ✚ Emphasis on Industrial training and industry visits for industry-institute interaction.
- ✚ Motivation for industry based (sponsored) projects.
- ✚ Outreach & extension activities for all round personality development of students.
- ✚ Spacious 08 laboratories with ample equipment, instruments, components & consumables.
- ✚ Well qualified Teaching faculty (08) and experienced Lab Assistant with a good retention ratio.
- ✚ 52 PC's with good configuration
- ✚ ICT enabled Classrooms
- ✚ Departmental Library with approximately 317 titles
- ✚ Alumni placed worldwide in renowned companies like INTEL, IBM, Nvidia, Siemens, Analog Devices India, TCS, Cognizant, Accenture, Capgemini, Vodafone, Finolex Cabel Goa, Qspiders, Yashsawi Group Pune, SEED Infotech, CEM Electromech, Infotech, Flex, BYJU's, etc.,.

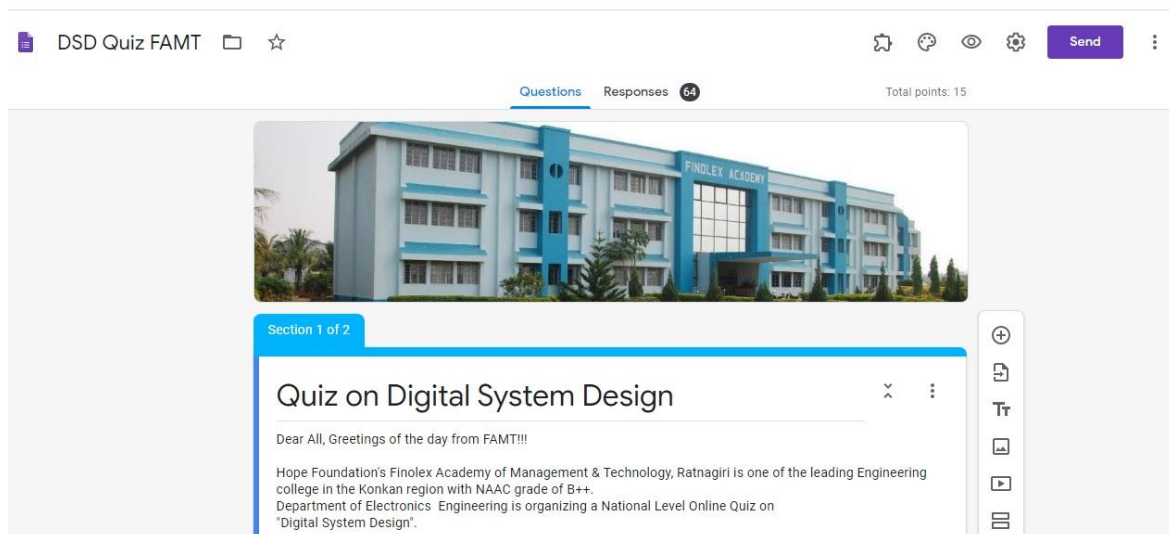
## Programs organized by the Department

### 1] National Level Quiz on Digital System Design

Covid-19 pandemic has lead to lockdown so as to keep ourselves safe by staying at home. But learning and gaining knowledge has no boundaries. Lockdown does not stop anyone from learning. In view of this Department of Electronics Engineering, FAMT conducted a National level on-line Quiz on “Digital System Design” during 3<sup>rd</sup> July, 2020 to 13<sup>th</sup> July, 2020.

The objective of the Quiz was to refresh the knowledge on Digital System Design. The Quiz comprised of 15 multiple choice questions. It could be attempted by any Engineering personal since the registration and certification was free of cost. Those who secured more than 50% score in the Quiz received an E-certificate. Total 64 participants attempted the Quiz. The participants were from Industry, teachers and students from various colleges as well as our alumni. We received response from Maharashtra as well as from other states too.

Prof. Vrishali V Nimbalkar coordinated the above activity under the guidance and motivation of Prof. Girish G Bhide (HoD, Electronics Engineering Department).



**Snap-shot of Quiz “Digital System Design”**

## 2] Various Online Courses Undertaken by Students

This Covid-19 pandemic forced all of us to adapt to online learning and this online learning opened up huge opportunities to learn from renowned institutes and universities all over the world. FAMT had an alliance with one such recognized course conducting platform like Coursera which offered free learning for all FAMT students and faculty for a year. Our students have successfully completed few of the courses offered by Coursera listing them below

Sr.No	Name of the Student	University	Course Title
1.	Atharva Nimkar, Samarth Bhawe,	University of Michigan	Python Data Structures
2.	Prathamesh Ghadshi, Abhishek Lingayat, Todankar Shivam, Narendra Warang	University of Michigan	Python Basics
3.	Kaustubh Vilankar	California Institute of Arts	Fundamentals of Graphic Design
4.	Abhishek Lingayat	University of Michigan	Python Basics
5.	Suyog Gokhale, Shouri Keer, Samruddhi Rumade, Samarth Bhawe, Sagar Shete, Manjunath Narewadi	University of Michigan	Programming for Everybody(Getting started with Python)
6.	Prathamesh Ghadshi	IBM	Introduction to Cyber Security Tools & Cyber Attacks
7.	Samarth Bhawe	University of Michigan	Introduction to Intel distribution of OpenVINO toolkit for Computer Vision Applications
8.	Hrigved Mayekar	University of London	Introduction to Virtual Reality
9.	Hrigved Mayekar, Sagar	University of California,	Introduction to Internet of Things and Embedded

	Shete	Irvine	Systems
10.	Sagar Shete, Rajesh Teredesai	University of California, Irvine	The Arduino Platform and C Programming
11.	Danish Mukadam	University of Colorado	Sensors and Sensor Circuit Design
12.	Hrigved Mayekar	University of Colorado	Embedded Software and Hardware Architecture
13.	Samarth Bhav	University of Michigan	Using Python to Access Web Data
14.	Nuzat Dabholkar	University of Alberta	Software Processes and Agile Practices
15.	Nuzat Dabholkar	University of Duke	Renewable Energy and Green Building Entrepreneurship
16.	Nuzat Dabholkar	University of Colorado	Fundamentals of Network Communication

### 3] Various Online Courses Undertaken by Faculty

Faculty members also participated in various workshops, various FDP, webinars, STTPs, etc. The details are as follows:-

Sr. No.	Name of Faculty	FDP/STTP/Workshop/Webinar/Coursera/NPTEL/IITB On-line Spoken Tutorial/Others
1	G. G. Bhide	STTP-1, Webinar-4.
2	V. V. Nimbalkar	AICTE ATAL FDP- 2, STTP-, Webinar-2, One Month Industrial Training.
3	A. R. Sutar	Workshop-1, FDP-1, NPTEL-1, STTP-1, Webinar-1
4	S. R. Nalage	Workshop-2, Webinar-3, One Month Industrial Training.
5	M. A. Jadhav	AICTE ATAL FDP-1, Coursera courses-8, STTP-2, On-line FDP-1.
6	R. P. Tivarekar	Workshop-2, FDP-1, Webinar-1, IITB On-line Spoken Tutorial-1.
7	A. B. Vartak	FDP-1, Coursera courses-9 which includes Speciliazation in course “Python for Everybody”, STTP-2, IITB On-line Spoken Tutorial-1.
8	R. B. Ingale	Workshop-1, Coursera Course-3, Webinar-1



## **Python for Everybody Specialization undertaken by Prof. A. B. Vartak and Prof. R. B. Ingale.**

This specialization is offered by University of Michigan on Coursera Platform and consist of 5 Courses. It comprises of fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. It also explains the basics of the Structured Query Language (SQL) and database design. In the final course The Capstone Project, a project to design and create your own applications for data retrieval, processing, and visualization is to be developed based on the technologies learned throughout the specialization.

## **Python 3 Programming Specialization undertaken by Prof. R. B. Ingale.**

This specialization is offered by University of Michigan on Coursera Platform and consists of 5 Courses. This specialization teaches the fundamentals of programming in Python 3 starting with variables, conditionals, and loops, keyword parameters, list comprehensions, lambda expressions, and class inheritance. The final course, Python Project(Course 5), is an extended project in which optical character recognition (OCR) and object detection in images is to be done. It provides a more in-depth treatment of Python fundamentals and more practice, so that we can proceed with confidence to specializations like Applied Data Science with Python.

Both the specialization courses are beneficial to students of all streams, especially for students of IT, CSE and Electronics related streams if they want to learn data science and Machine Learning.

### **Students Achievements**

#### **Students Achievement:**

<b>Sr. No.</b>	<b>Name of Students</b>	<b>Details</b>
1	Mr. Parth Sawant (SE ETRX)	Three Gold medals at district level in three drama events named Ekankika, Mime and Skit Play in 52 <sup>nd</sup> Youth Festival 2019-20 organized by Mumbai University.

## **PUBLISHER**

### **Editors**

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