

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

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



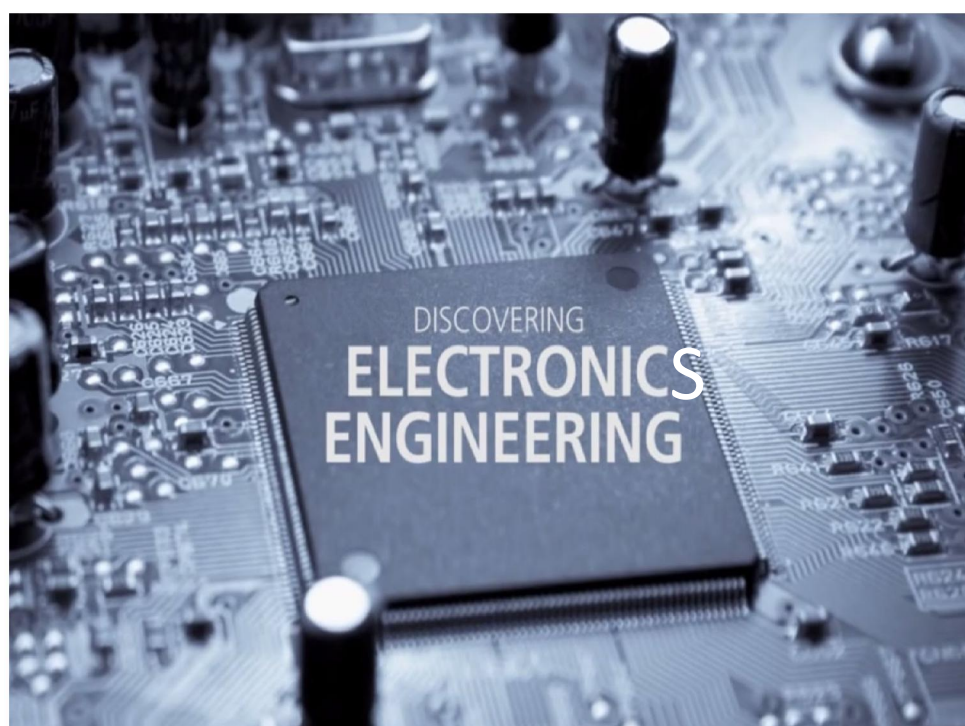
# ***ELECTRONICA***

**NEWS-LETTER**

**OF**

**ELECTRONICS ENGINEERING DEPARTMENT**

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## **Editors**

**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)
9. Prof. Suraj A. Shete (Assistant Professor)

### Staff Members

10. Mr. Bharat M. Biradar
11. Mr. Paresh S. Sambare

## 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 09 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. 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 "Electrofocus2K19" is organized by department students committee (Electronics Student Technical Association-ESTA) every year so that along with technical skill development they learn management skills also. Over the span of 19 years, 1089 students have been graduated and our graduated students have occupied key positions in industry, academics and have taken up ME and MS programs in India and abroad. 02 students have been placed through on-line campus drive for the year 2018-19. Department has its own annual e-newsletter published on college website informing about the activities carried out by the department.

### **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, BSNL, MTNL, Indian Railways, All India Radio, etc.

## 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.
- + A technical event named “Electrofocus2K19” organized by students’ association.
- + Well qualified Teaching faculty (09) and experienced Lab Assistants (02) with a good retentation ratio.
- + 52 PC’s with good configuration
- + ICT enabled Classrooms
- + Departmental Library with approximately 317 titles
- + Regular conduction of Wprkshops, course enrichments, Add-On courses and various Competitions.
- + Alumni placed worldwide in renowned companies like INTEL, IBM, Siemens, Analog Devices India, TCS, Cognizant, Accenture, Capgemini, Vodafone, Finolex Cabel Goa, Qspiders, Yashsawi Group Pune, SEED Infotech, CEM Electromech, Infotech, etc.,

## Programs organized by the Department

### 1] Workshop on “Embedded C Programming and Applications Development using 8051 $\mu$ C”

A Two days workshop “*Embedded C Programming and Applications Development using 8051 $\mu$ C*” was organized by the Department of Electronics Engineering from 14<sup>th</sup> to 15<sup>th</sup> September 2019 in VLSI Lab.

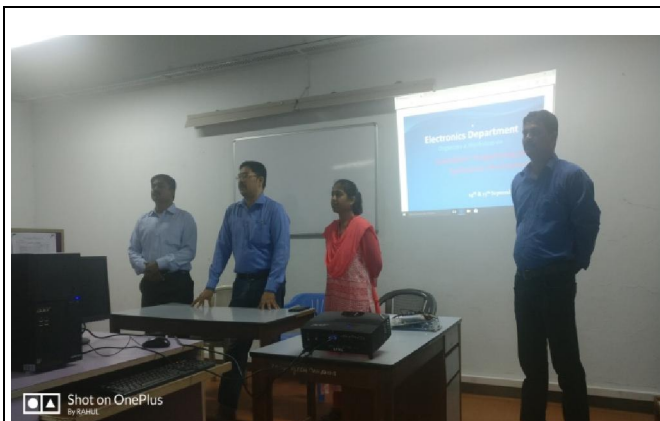
The workshop was organized for students of TE Electronics and conducted by Prof. Vrishali. V. Nimbalkar and Prof. Amol. R. Sutar Assistant Professors, Department of Electronics



Engineering. The workshop aimed to acquaint the students with Embedded C Programming for 8051 platform, interfacing, and programming I/O modules by providing hands-on sessions on Microcontroller based hardware system. During these two days, the hands-on sessions were carried on interfacing and programming I/O devices such as LED's, switches, switch-led, Buzzer, 16x2 character LCD, intensity control of LEDs using PWM, GPS and GSM modules. Accurate delay generation using Timers of 8051, serial communication and interrupts of 8051 were also explained and implemented.

Prof. Mahesh. A. Jadhav coordinated the workshop systematically under the guidance and suggestions of Prof. Girish. G. Bhide, HoD. It would help the students to develop their own Microcontroller Based System and write Embedded C program for the desired applications. The students will be able to design and develop their mini-projects and B.E. projects. Simultaneously, they acquired a skill set much required in industry and designing products on their own. The workshop was very interactive and all students actively participated in the hands-on sessions of the workshop. A total of 27 student participants were certified at the end of the workshop.

### Photographs of the workshop “Embedded C Programming and Applications Development using 8051 $\mu$ C”



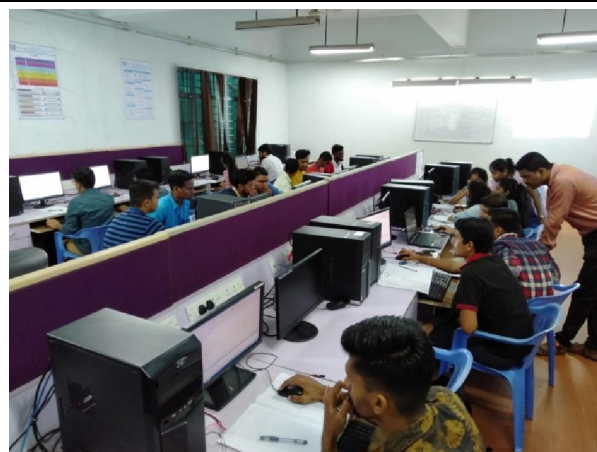
**HOD, Prof. G. G. Bhide addressing the participants at the beginning session of workshop along with Prof A. R. Sutar, Prof V. V. Nimbalkar , Prof. M. A. Jadhav**



**Workshop Participants**



**Prof. V. V. Nimbalkar Prof. A. R. Sutar and Prof. M. A. Jadhav interacting with students**



**Prof. V. V. Nimbalkar Prof. A. R. Sutar and Prof. M. A. Jadhav interacting with students**

## 2] Seminar on “Embedded Systems”

The Department of Electronics Engineering organized a Seminar on “Embedded Systems” on 18<sup>th</sup> September, 2019 for S.E to B.E. Electronics Engineering students and B.E. Electronics and Telecommunication Engineering students.

Mr. Manish Baing, an alumnus of Electronics Engineering Department (2011 Batch), delivered the seminar. Mr. Manish is currently working as a Senior Firmware Engineer in Eaton Company, Pune, with a work experience of more than 7 years. The seminar intended to guide the students about the necessary skill-set required to become an Embedded System Engineer and listen to his work experience too.

Accordingly, Mr. Manish guided the students regarding the skill-set required to become an Embedded System Engineer and ways to acquire and improve their knowledge by sharing few website links and references. Emphasis was given on using open-source tools. He also shared his experience and detail on his career progression after graduation to guide the students to pursue their career. The projects that he executed needed multidisciplinary knowledge. So he urged students to acquire multidisciplinary knowledge to make themselves capable enough to accept the change and be ready to face the challenges. Mr Manish assured students to help them in enhancing their knowledge.

The seminar was co-ordinated by Prof. Vrishali V Nimbalkar under the guidance of Prof. Girish G Bhide (HOD Electronics Engineering Department). Around 65 students attended the seminar.

### Photographs of Seminar “Embedded System”



**Mr. Manish Baing introducing himself to the students**



**Mr. Manish Baing delivering the seminar to Electronics Engineering Students**

### 3] Various Activities in the Department:

Faculty members and students also participated in various workshops like “eSim”, and “R”. Various FDP was undertaken by the faculty members like “C Programming and Assembly Language”, “Joy of Computing using Python”, “Programming Data Structures and Algorithms using Python”, “Synthesis of Digital System”, “CCNA Cisco course of 16 hours”, “Packet Tracer Labs for CCNA Exam from UDEMY of 14 hours”, and “ Embedded Systems and IOT”. Third Year Electronics Engineer students welcomed Second Year Electronics engineering students by giving them a welcome party. Also “FAMT Logo Design Competition” was organized in the Department.

### Faculty / Students Achievements

#### 1] Journal/Conference Publications

1. Prof. Suraj A. Shete, Prof. V. D. Chavan and Prof. R. P. Tivarekar, “Multi-Wavelet Transform-Video Encoding for Content Protection With Secret Key”, Journal of Emerging Technologies and Innovative Research.
2. Prof. Suraj A. Shete is a member of “Associate Member of Institute of Research Engineers and Doctors”.



**2] Award**

<b>Name of the faculty</b>	<b>Achievement</b>
Prof. Suraj. A. Shete	Best Young Faculty Award
Prof. Suraj. A. Shete	Bright Engineer Award in the field of Image Processing
Prof. Vrishali V. Nimbalkar	Successfully completed the On-NPTEL course on “C Programming and Assembly Language” with a Gold medal and stood in 5% Toppers List..
Prof. Mahesh A. Jadhav	Successfully completed the On-NPTEL course on “C Programming and Assembly Language” with a Silver medal and Elite certificate.
Prof. R. P. Tivarekar	Successfully completed the On-NPTEL course on “Joy of Computing using Python” with Gold medal and stood in 2% Toppers list.
Prof. Ashish. B. Vartak	Successfully completed the NPTEL course on “Programming Data Structures and Algorithms using Python” with Elite grade and Silver medal.
Prof. Ashish. B. Vartak	Successfully completed the NPTEL course on “Synthesis of Digital System”.
Prof. Suraj. A. Shete	Successfully completed the NPTEL course on “Embedded System”.

### Student's Achievements

<b>Sr. No.</b>	<b>Name of Students</b>	<b>Achievement</b>
1	Mr. Omkar Bhawe, Mr. Parth Sawant (SE)	Selected for “e-Yantra Robotics Competition” organized by IIT Bombay.

## **PUBLISHER**

### **Editors**

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