

FINDLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI

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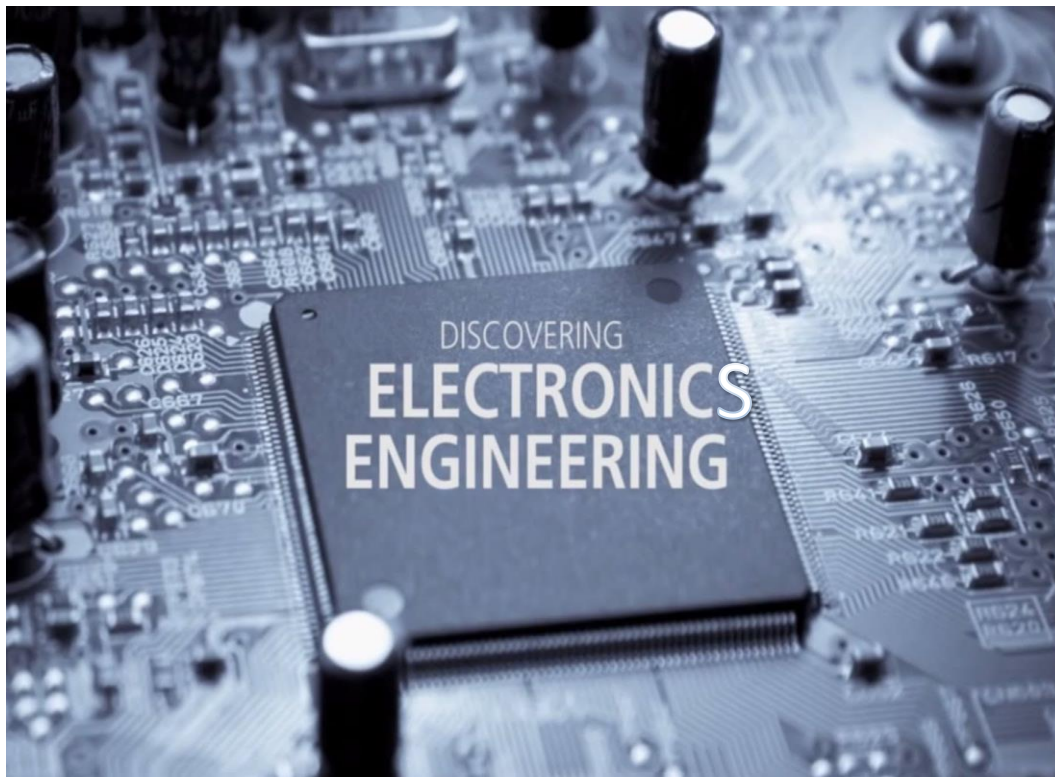
ELECTRONICA

NEWS-LETTER

OF

ELECTRONICS ENGINEERING DEPARTMENT

VOLUME 1, ISSUE 2, (1 JANUARY 2017-30 JUNE 2017)



Publisher

Department of Electronics Engineering

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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) Deputed for ME
7. Prof. Ashish B. Vartak (Assistant Professor)
8. Prof. Bhakti Y. Sathe (Assistant Professor)
9. Prof. Mayur S. Patil (Assistant Professor)
10. Prof. Suraj A. Shete (Assistant Professor)
11. Prof. Asmita A. Chavan (Assistant Professor)
12. Prof. Gauri D. Khedekar (Assistant Professor)
13. Prof. Avaduth G. Apte (Assistant Professor)

Staff Members

14. Mr. Bharat M. Biradar
15. Mr. Paresh S. Sambare

Vision

- ✚ The vision of the department is to train the students to have in-depth knowledge of the subjects in Electronics Engineering and develop the confidence to face the challenges in industries and R&D activities. The department seeks to create the center of excellence in Konkan region for the development of the society and the nation.

Mission

- ✚ The mission of the Electronics Engineering department is to facilitate development activities and encourage integration which will help the students to ensure the exchange of ideas and dissemination of knowledge to face global challenges and imbibe social and ethical values.

Program Specific Outcomes (PSOs)

- ✚ Within 4 year of graduation, FAMT graduates are expected to be employed as Test Engineers, Field Engineers, Hardware Engineers, Process Engineers, Programmers, etc.
- ✚ To train students with good electronic engineering knowledge so as to crate and design innovative products and solutions for the real life problems.

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, and project based learning, aptitude test is conducted on regular basis to enhance employability of student.
- ✚ Emphasis on Industrial training 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 (13) and experienced Lab Assistant (02) with a good retention ratio
- ✚ PCs with good configuration
- ✚ Departmental Library with approximately 280+ titles
- ✚ Alumni placed worldwide in renowned companies like INTEL, IBM, Siemens, Analog Devices India, TCS, Cognizant, Accenture, Capgemini, Vodafone, Finolex Cable Goa, Infotech, etc.

Programs organized by the Department

1] A Three Days Workshop on “Embedded Systems and Robotics Design”

A three days’ workshop titled “Embedded Systems and Robotics Design” was organized by Department of Electronics on 27th, 28th and 29th January 2017. Miss V V. Nimbalkar was assigned the duty of workshop coordinator. Workshop was organized for students of Electronics, Electrical and Electronics and Telecommunication departments. Industry’s current scenario is just traditional classroom knowledge is not sufficient to sustain in today’s competitive world. You need to have additional skill sets so that you can prove yourself distinct from the crowd. The workshop was conducted by four eminent professors from Pralhad P. Chhabria Research Center (PPCRC), Pune.

Workshop began with inauguration ceremony at 10.30 am in Auditorium. Workshop resource persons were four eminent professors from Pralhad P. Chhabria Research Center, Pune. Resource persons were Mr. Rabinder Henry (Director of PPCRC), Mr. Amit Patwardhan (Scientist at PPCRC), Mr. Yashodhan Mandke (Research Scientist) and Mr. Bhushan Patil (Senior Research Scientist). Miss Gauri Khedekar hosted the inauguration. Resource persons were introduced to the audience by Gauri Khedekar and felicitated by Dr. Kaushal Prasad. Audience were then addressed by our principal Dr. Kaushal Prasad and then the dais was handed over to Mr. Rabinder Henry who conducted a one and half hour seminar on “Career Opportunities and placement”. All TE and BE students of Electronics, Electrical and Electronics and Telecommunication attended the seminar. Then workshop participants were told to proceed to EN-2/5 for further sessions of workshop where as other students were told to resume their classes. 66 students and 6 faculty members attended the workshop.

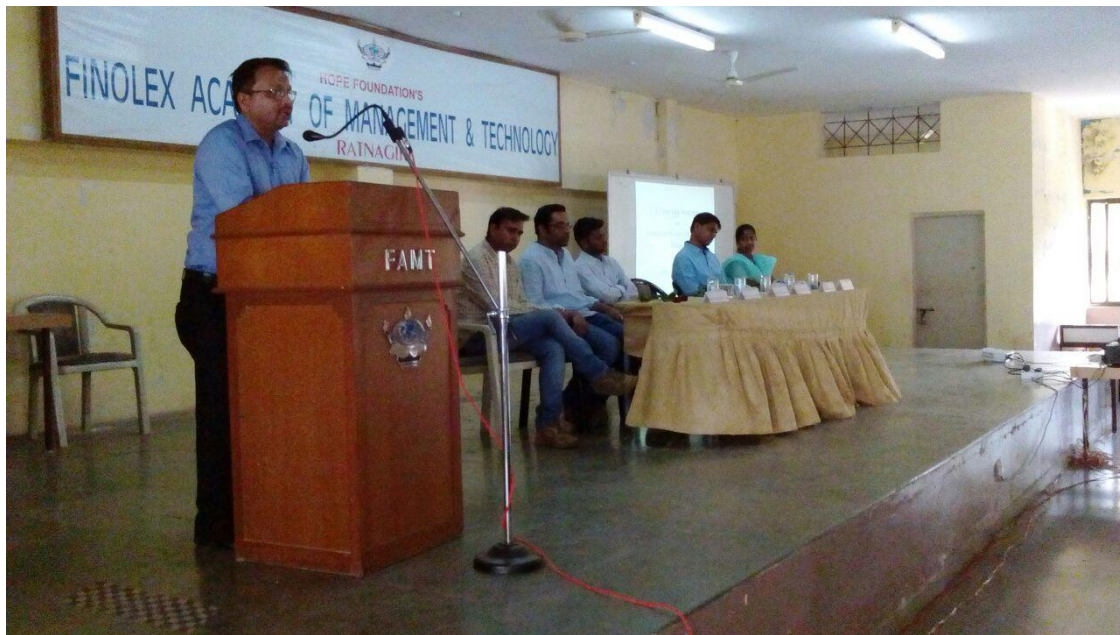
Workshop was conducted by Mr.Amit Patwardhan, Mr.Yashodhan Mandke and Mr. Bhushan Patil.

Following were the contents covered in the workshop

1. Basics of Breadboard
2. Introduction to Embedded Systems
3. Aurdino board introduction
4. Software installation
5. One LED blinking, two LED’s alternate blinking, Changing blinking rates.
6. Serial communication and using serial monitor and serial plotter.
7. Basics of ADC and LDR interface, controlling the intensity of LED using LDR.
8. LD293 Driver IC,DC Motor interface and forward, backward motion of the board.
9. Basics of VLSI Design
10. Introduction to Linux
11. Common anode, 7 Segment display interface to Aurdino, with the help of LDR displaying the light intensity on 7-seg display.
12. Motion control of the board using LDR.

Workshop ended by distributing participation certificates to the participants and by giving a vote of thanks to the resource persons by Prof G. G. Bhide (HOD Electronics).

Photographs of the workshop” Embedded Systems and Robotics Design”



Dr. Kaushal Prasad (Principal of FAMT) addressing the audience



Mr. Amit Patwardhan conducting workshop session

Photographs of the workshop” Embedded Systems and Robotics Design”



Students engrossed in the workshop activity

2] A Three Days Workshop on “Raspberry Pi”

An interesting workshop on a trending subject ‘Raspberry Pi’ was successfully conducted on 10th and 11th February, 2017 in FAMT. Total 53 Students from Ratnagiri and Sindhudurga districts and 10 faculty members from FAMT and Gogate Jogalekar College, Ratnagiri participated in the workshop. It was coordinated by Prof. Amol R. Sutar and Prof. Gauri D Khedekar with the help of B. E Electronics students Mudassir Kazi, Dnyanesh Chavan , Kiran Jamble and Alisha Amberkar. The workshop began with the inauguration by the Principal, Prof. G. G. Bhide (HOD ETRX) and Prof. G. S. Kulkarni (HOD EXTC). Mr. Yogesh Bhole from Robokart, an experienced trainer, shared valuable knowledge with the students during the workshop.

Photographs of the workshop” Raspberry Pi”



Inaugural function of the workshop “Raspberry Pi”



Students engrossed in the workshop “Raspberry Pi”

3] Parents Meet of SE Electronics

Parents Meet of S. E. Electronics was organized by the department of Electronics Engineering on Saturday, 11th February 2017. The meeting began in presence of Prof. Girish G. Bhide (Head of department), Mr A. B. Vartak (class teacher of S. E. Electronics) and Mr. S.R. Nalage, Ms. B.Y. Sathe (mentors). Prof. G. G. Bhide welcomed 21 parents present for the meeting and gave a presentation describing the department profile i.e. highlights of the department, faculty members and staff, academics, value addition courses for the students, future plans of department and alumni. It was followed by the discussion session with the parents. The queries of the parents were satisfactorily answered by HOD and other faculty members. Parents gave some suggestions related to the communication between the department and them. Meeting ended with thanks to all the parents.

3] Parents Meet of TE Electronics

Parents Meet of T. E. Electronics was organized by the department of Electronics Engineering on Saturday, 25th February 2017. The meeting began in presence of Prof. Girish G. Bhide (Head of department), Ms. G. D. Khedekar (class teacher of T. E. Electronics) as well as the faculty members Ms. V. V. Nimbalkar, Ms. B. Y. Sathe, Mr. M. S. Patil & Mr. A. G. Apte (mentors). Prof. G. G. Bhide welcomed the parents present for the meeting and gave a presentation describing the department profile i.e. highlights of the department, faculty members and staff, academics, value addition courses for the students, future plans of department and alumni. It was followed by the discussion session with the parents. The queries of the parents were satisfactorily answered by HOD and other faculty members. Parents gave some suggestions related to the communication between the department and them. Meeting ended with thanks to all the parents.

Faculty Achievements

1] Journal/Conference Publications

i) Prof. G. G. Bhide

Suraj Shete, Girish Bhide, Mahesh Jadhav, “WHT and Double WHT: An effective PAPR reduction approach in OFDM” in IEEE Xplore Digital Library DOI: 10.1109/ICAECCT.2016.7942577.

ii) Prof. A. R. Sutar

Published a paper in international journal on “Implementation and Study of BLDC Motor Drive System”, IJESRT, ISSN2277-9655, Vol. 5, Issue5, PP 57-64, May 2016.

iv) Prof. M. A. Jadhav

Suraj Shete, Girish Bhide, Mahesh Jadhav, “WHT and Double WHT: An effective PAPR reduction approach in OFDM” in IEEE Xplore Digital Library DOI:10.1109/ICAECCT.2016.7942577

v) Prof.A. B. Vartak

Paper titled “Brain Tumor Classification into Normal and Abnormal Using PCA and PNN Classifier” published in International Journal of Engineering Development and research, (ISSN 2321-9939, Volume 4, Issue 1, January 2016), pp. 97-102.

vi) Prof. S. A. Shete

Paper titled “WHT and Double WHT: An effective PAPR reduction approach in OFDM” in IEEE Xplore Digital Library DOI: 10.1109/ICAECCT.2016.7942577.

Our faculty member Mr. Suraj A. Shete (Electronics Engineering Department) published a book on “Walsh Hadamard Transform : **An effective PAPR reduction approach in OFDM**” in Lambert Academic Publication, Germany (ISBN- 978-3-659-92929-8).

Student's Achievements

| Sr. No. | Name of Students | Details |
|---------|--|---|
| 1 | Prasad Naik, Rushikesh Walke (BE Electronics) | National Solar Vehicle Challenge 2016-17, New Delhi, 5 th Rank |
| 2 | Pratmesh Kumbhar, Prashant Mestri (BE Electronics) | Electric National Kart Racing Championship 2017, Bhopal, Madhya Pradesh, All India 3 rd rank |
| 3 | Pratmesh kumbhar, Prashant Mestri (BE Electronics) | ECOKART Series 2017, Haryana, All India 15 th rank |

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