SARANATHAN COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Newsletter

VISION

- **To become a leading department of Higher Learning and a Research Center of Excellence in Electronics and Communication Engineering.**

MISSION

- **To enable budding engineers to obtain technical exposure in various areas of Electronics and Communication Engineering.**
- **To nurture career improvement.**
- **To initiate and sustain research activities in the department in cutting edge areas of Electronics and Communication Engineering.**
- **To develop professional and ethical attitude in the students.**

PROGRAMME EDUCATIONAL OBJECTIVES

The Graduates of Electronics and Communication Engineering will

- **have a strong foundation in the required sciences in order to pursue studies in Electronics and Communication Engineering.**
- **have a broad exposure to the students in various topics related to Electronics and Communication Engineering fields, to enable them to excel in their professional career /higher studies.**
- **possess innovative skills in order to solve the technical problems which will arise in their professional life.**
- **have professional and ethical attitude and an ability to visualize the engineering issues in a broader social context.**

PROGRAMME SPECIFIC OUTCOMES

Graduates of Electronics and Communication Engineering will be able to:

- **Comprehend and demonstrate the principles and concepts of Semiconductor theory, Signal Processing & Embedded systems in the fields of Consumer Electronics, Medical Electronics and Defense Electronics.**
- **Apply emerging Information and Communication Engineering Techniques to solve real time problems.**

PO-PROGRAMME OUTCOMES

Engineering Graduates will be able to:

- **Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.**
- **Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.**
- **Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.**
- **Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.**
- **Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.**

- **The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.**

- **Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.**

- **Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.**

- **Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.**

- **Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.**

- **Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.**

- **Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.**

Message from HOD:

I am very enchanted that our ECE department is releasing our department newsletter for the odd semester of 2016-2017.This newsletter is surely a channel to prove the hidden talents. Our ECE Department aims at keeping students abreast of the current technological trends and due consideration is also paid to enhance their skills in communication, fine arts, etc. I hope this newsletter provides an opportunity to the students and staff members to lend free expression to their pioneering and imaginative thoughts.

This plays an active role in gaining latest developments in the field of Engineering and also presents the achievements of the department. This would surely help in building our promising Engineers to become expertise in the field of Electronics and Communication Engineering. This is the window to our departmental activities. A flower makes no garland. This is not the outcome of the effort put in by an individual. I wish them All the Best for all their future accomplishments.

Tentative Course Plan:

It is planned to conduct various technical courses to enhance the knowledge of the students. The students can enrich their technical skills with the help of technical courses. The tentative list of the courses to be conducted is given below:

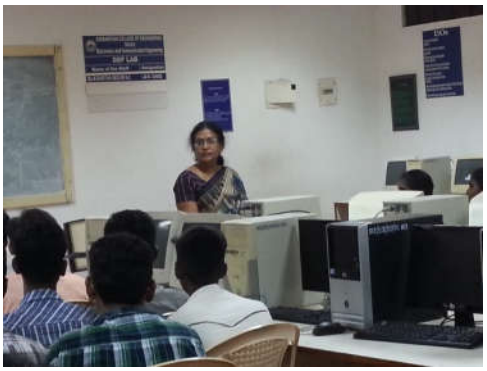
S. No	Course Description	Intended Participants
1	Mini Project Expo	Third year students from Department of ECE
2	Programming and Interfacing Peripherals in Arduino Board	Second year students from Department of ECE
3	Project development in HDL	Third year students from Department of ECE
4	Mini Project Expo	First year students from Department of ECE

Courses conducted

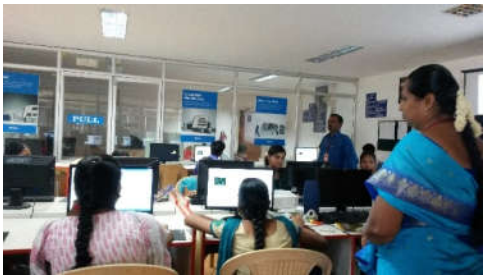
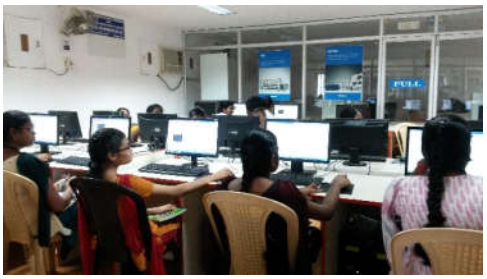
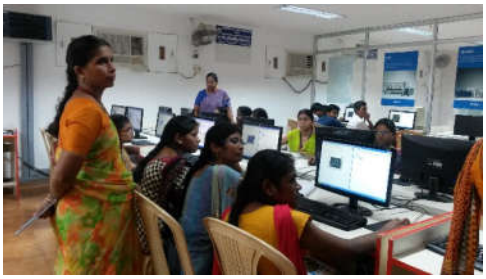
During the months of May and June of this year, the following courses were conducted by our internal resource persons for enriching the knowledge of our students. The details of the courses conducted were listed below. Also one faculty development program on embedded systems was conducted for the faculty members.

S. No	Course Description	Intended Participants
1	Circuit Design and development	Second year students from Department of ECE
2	Workshop on" PCB DESIGN"	first year students from Department of ECE
3	Certificate course on signals and systems using matlab	Second year students from Department of ECE
4	Workshop on LabView	Second year students from Department of ECE
5	Faculty Development Program on Embedded Systems	Faculty ,Department of ECE

Certificate Course on Signals and Systems using Matlab May 25 2016



Workshop on Lab-View conducted during May 21 2016

Five day workshop on Lab-View 27 Jun 2016 – 1 Jul 2016




FDP on Embedded Systems conducted on June 22 2016

Anna University Results:

In the academic year 2015 – 2016 (even Semester) our department of ECE has secured 82.67% in the Anna university semester examination results. Totally 404 students appeared for the examinations and 334 students were successfully cleared all the subjects without any backlogs.

Anna University Rank Holders 2016

In the University ranks announced by the Anna University recently, three of our students secured ranks. The students and the ranks secured by them are listed below.

S. No	Name of the Student	University Rank
1	SURUTHY B	18
2	AKILA PL	30
3	KARTHICK R	44

Editorial Team

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