Laboratory Facilities
1. FPGA Boards (Altera, Xilinx, Digilent, Cypress)
2. PMODS
3. FPAA
4. Microchip Can bus
5. Cadence s/w
6. Mentor Graphics
7. Quartus II
8. Digital Storage Oscilloscope
9. Digilent Analog Discovery Kit

Workshops
Some of the broad areas covered in Workshops are
1. Advanced Microprocessors
2. Ultra Low Power Microcontrollers
3. FPGAs
4. FPAA

Career & Internship Opportunities
Centre for University Industry Collaboration at College of Engineering, Anna University assists the students for securing placement and internship in reputed companies. Some of the companies in which Applied Electronics students secure internships and placement are
1. Caterpillar
2. Mbit Wireless
3. Open Silicon Research pvt Ltd
4. International Business Machines (IBM)
5. Hindustan Computers Limited (HCL)
6. NOKIA
7. Cognizant Technology Solutions (CTS)
8. Infosys Consulting and IT Services
9. Tata Consultancy Services Limited (TCS)
10. Microsemi corporation

FOR FURTHER INFORMATION PLEASE CONTACT
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Professor-in-charge: Prof.Dr.N.Ramadass
Course Curriculum

Curriculum is revised once in four years to keep pace with emerging trends and includes fundamental subjects, advanced designs and testing, electives and labs hands-on oriented towards hardware development. A student is required to complete 70 credits for earning a Masters degree. Prefinal and final semesters of this 4 semester programme have significant duration allocated for project work. Students are encouraged to take up internship in companies and carry project work in the final 4th semester.

Research Areas
1. Reconfigurable Architecture
2. Agriculture Automation
3. Intelligent and Smart Systems
4. Wireless Networks
5. Image and Video Processing
6. Cyber Security
7. Artificial Intelligence
8. Networking Systems
9. Embedded Systems
10. Robotics
11. Low Power VLSI Design

Course Objectives

The aim of this course is to impart all hardware aspects necessary for electronic systems design and development be it embedded systems, IOT etc. on par with the current work in industry. The main strength of this course lies in its Labs and individual student projects of industry standard. A student of this course will have the necessary confidence to independently design and develop electronic systems useful to the society. Besides classroom learning, students get industrial exposure by way of industrial visits.

About the Course

M.E. Applied Electronics is a four semester programme offered at Department of ECE, College of Engineering, Anna University, Chennai. It has the right mixture of essential theoretical and practical content that is necessary to give a student the required expertise in Applied Electronics so as to meet Industry standards.

Prologue

Technology for automation grew leaps and bounds around 1940s with the invention of transistor by William Shockley, Walter Houser Brattain and John Bardeen those marked the beginning of electronics field. Many devices have been invented with that inspiration thereafter. Since then electronics pervaded all the areas of sciences and human lives. Electronics was initially dominated by these analog devices and later on went into a transformation with the development digital devices based ICs, namely microprocessors and microcontrollers. Analog and digital hardware led to the development of personal computers and embedded technologies which is the heart of many household appliances. Today’s electronics is centered around utilizing natural resources, such as solar light, supporting go green movement for preserving nature’s ecosystem. Electronics coupled with sensors and internet called internet of things (IOT) is the current trend that is abuzz with lot of activity in almost all fields such as entertainment, automobiles, medicine, space explorations etc.

VISION

To be recognized as a benchmark and trend setter in Electronics and Communication Engineering domain keeping in pace with rapidly changing technologies through effective partnership with reputed academic institutions, research organizations, industries and community.