TRANSEDGE

**Dr.K.Rahimunnisa, Associate Professor and Head,
Department Of Electronics and Communication Engineering**

Dear Readers,

For years, "Trans-edge", the enthusiastic publication of the activities by the Technocrats of the ECE department has created a platform for the erudite students to showcase their talents. The newsletter motivates both the faculty and the students to outperform themselves and unfold their creative instincts. It aims to enlighten the readers on the latest technological developments and thus drives Innovation.

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Ms T. Gophika , Asst. Professor, ECE Department

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"Knowing is not enough; we must apply. Wishing is not enough; we must do"-

Johann Von Goethe

VISION AND MISSION
EASWARI ENGINEERING COLLEGE

Vision:

To accomplish and maintain international eminence and become a model institution for higher learning through dedicated development of minds, advancement of knowledge and professional application of skills to meet the global demands.

Mission:

M1:

Easwari Engineering College strives to set high standards of comprehensive education by developing the intellectual strength of students and guiding them towards technical advancement.

M2:

Synergise the efforts of various departments, inspire creativity and foster excellence and innovation in teaching and learning so as to realise our vision as a Premier Engineering Institution.

M3:

Nurture the development of mind, skill, attitude and core competence of students.

M4:

Attain leadership in planning and resource management so as to improve the quality and accessibility of technical education.

M5:

Produce graduates of International distinction, committed to Integrity, Professionalism and lifelong learning by widening their knowledge horizons in range and depth.

M6:

Enable students shine in their academic pursuits, making them sensitive to the needs of the progressive industrial world.

M7:

Organise a pluralistic and supportive environment that will stimulate scholars, students and staff of the highest calibre and contribute immensely to the process of Nation building through partnership with Community and Industry.

"Push harder than yesterday if you want a better tomorrow..."

-English Proverb

VISION AND MISSION

EASWARI ENGINEERING COLLEGE
DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

Vision:

To prepare engineers, proficient to meet the needs of current technological advancements in the field of Electronics and Communication Engineering by establishing a learning environment consistent with industry standards in academics and research.

Mission:

M1:

To create a passion amongst students for contributing to research by providing industry oriented learning.

M2:

To impart in depth knowledge in principles and applications related to design and development of various systems for societal needs.

M3:

To build the skill sets, attitude and core competence of students and faculty by providing them with the opportunity to organize various technical events which will bring out their inherent talents

M4:

To produce graduates with technical expertise, professional attitude and ethical values

M5:

To instil creative thinking through innovative and team based methods which develops the entrepreneur skills, employability and research capability among professionals

M6:

To inculcate in the graduates, the thirst for life-long learning and guide them to obtain thorough knowledge in their chosen interdisciplinary field

"Push harder than yesterday if you want a better tomorrow…"

-English Proverb

PROGRAM OUTCOMES:

PO1: Engineering Knowledge

PO2: Problem Analysis

PO3: Design/Development of Solutions

PO4: Conduct investigations of complex problems

PO5: Modern Tool Usage

PO6: The Engineer and Society

PO7: Environment and Sustainability

PO8: Ethics

PO9: Individual and Team Work

PO10: Communication

PO11: Project Management and Finance

PO12: Life Long Learning

PROGRAM SPECIFIC OUTCOMES:

PSO1: Design and construct Electronic circuits and to Simulate the circuits with software tools which lead to the development of Electronic gadgets.

PSO2: Design and analyze various signal processing blocks for Image and Signal processing systems.

PSO3: Analyze various Networking and Communication areas and its impact in real time applications.

PSO4: Implement their professional skills and techniques in the integrated circuit design which are applicable to industrial and societal needs.

PROGRAM EDUCATIONAL OBJECTIVES:

PEO1: Graduates will possess competency in mathematics, science and engineering fundamentals for solving Electronics and Communication engineering problems.

PEO2: Graduates will have core engineering knowledge necessary for employment in industries as well as higher studies and research.

PEO3: Graduates will attain organizing capability, entrepreneur skills and will be a team player in workplace with ethics.

PEO4: Graduates will perform effectively in multicultural and multidisciplinary environment and makes them ready for the corporate careers ahead.

PEO5: Graduates will have the ability to engage themselves in lifelong learning to achieve professional excellence that will make impact in the societal and human context.

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-English Proverb

WORKSHOPS & COMPETITIONS

IETE WORKSHOP: SMARTER AUTOMATION THROUGH WIFI COMMUNICATION

On the fourteenth of September, 2017, the Institution of Electronics and Telecommunication Engineers hosted a workshop on Smarter Automation through WiFi communication at Easwari Engineering College, Ramapuram. Tech Cryptors, a leading company in field of workshops and seminars. The workshop started off with an insight into the burgeoning technology of Internet of Things by Mr Chandrakant Pratap from Tech Cryptors who was the lecturer for the day. By embedding short-range mobile transceivers into a wide array of additional gadgets and everyday items, IOT has been enabling new forms of communication between people and things, and between things themselves.He addressed the most important question surrounding IOT, why it's cited to be the next big thing in the technology spectrum. He reasoned out that it helps us have dynamic control over industry and daily life, improves the resource utilization ratio and mainly helps in the integration of human society and physical systems.

"All you need in this life is ignorance and confidence; then success is sure. "
― Mark Twain

Videos and pictures of the applications of IOT were displayed to develop a better understanding of the same. In an attempt to strengthen the basics of IOT, Mr Pratap gave a brief description about the core part or the brain of the system, the Microcontroller. The difference between a Miroprocessor and a Microcontroller was elucidated with special emphasis on why Microcontrollers are used instead of the former in IOT. Before starting with the hands-on training session, the commonly used sensors were displayed and their application and working was explained.
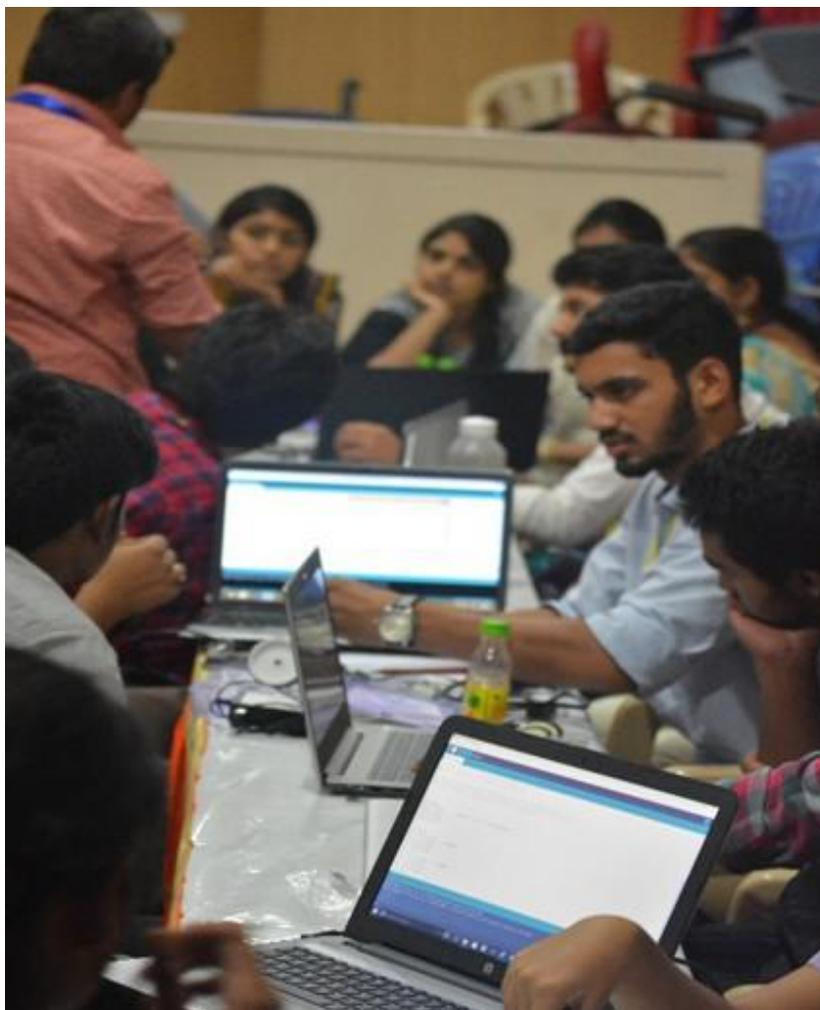

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-English Proverb

Mr Pratap then talked about WiFi, a mode of communication that has gained much popularity the last few years. The reason being the low expense, highly interoperable, general purpose nature of the same, which can be used in both indoor and outdoor environments. The ESP WiFi module, an exciting new piece of technology that enabled this wireless fidelity communication between devices was discussed in detail

The hands on training session started once the lecture was over, and all the teams huddled over the different components given to each team in a kit, executing codes in the Arduino software to watch the working of each one of them. The aim of the training was to construct a system that connects a motor on the online grid which whilst chancing upon an obstacle alerts the webpage from which it is controlled and monitored. The microcontroller used here was an Arduino Nano, and the system used the ESP 8266 WiFi Module, a DC motor, a motor driver and a potentiometer to help build the circuit. The Arduino software that was installed in all the laptops helped to dump the code into the Microcontroller. The different AT commands

NPTEL EXAM

The National Programme on Technology Enhanced Learning (NPTEL), a project funded by the Ministry of Human Resource Development (MHRD),[1] provides e-learning through online Web and Video courses in Engineering, Sciences, Technology, Management and Humanities. This is a joint initiative by seven IITs and IISc Bangalore. Easwari Engineering College is a part of the local chapters of NPTEL, and certification exams were conducted for courses during September 2017.

SRILAKSHMI G, III ECE C attended the Operating Systems (8-week) course exam on Sep-

EVENTS

SWAGAT 2017

Swagat 2017, the Fresher's day of Easwari Engineering College took place on September 23,2017. Sajitha, I C of ECE won the second runner for girls.

"Push harder than yesterday if you want a better tomorrow..."

-English Proverb

NAAC AUDIT

The National Assessment and Accreditation Council (NAAC) is an organisation that assesses and accredits higher education Institutions (HEIs) in India. It is an autonomous body funded by University Grants Commission of Government of India headquartered in Bangalore. The NAAC Team visited Easwari Engineering College during the midweek of September.
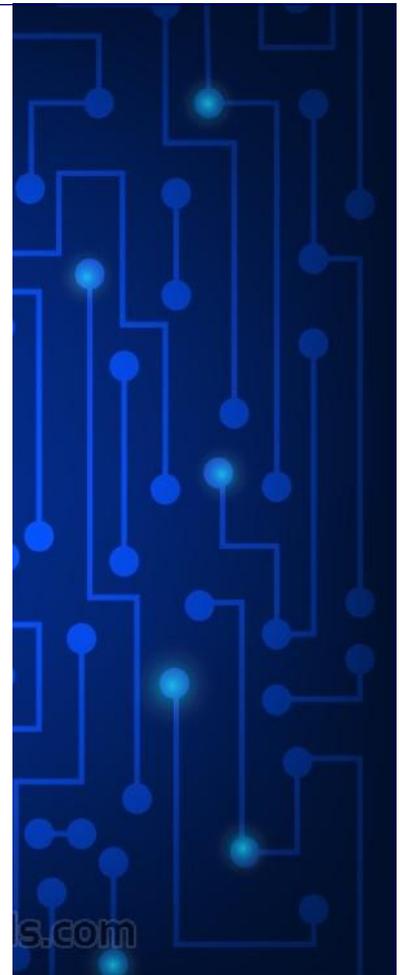
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— Mark Twain

SNEAK PEEK

(A glance into the latest technological developments and inventions)

MATRIX-TAKING IOT TO THE NEXT LEVEL

MATRIX is a beautifully designed device that allows you to create and download home and business apps — giving you a gadget that can be used in many different ways at once. The MATRIX has been breaking new ground on convergence of physical and online world with anything in the physical environment being able to be connected to the online grid. This powerful device has 15 sensors which gives 32,000 possible sensor combinations and allows developers around the globe to create hundreds of thousands of applications, with the simplicity of just one device being able to do these at the same time. You control the MATRIX by speech, gesture, or its mobile app, and the MATRIX controls all your smart home and other IoT devices, like a hub. Possible uses for the MATRIX are only limited by the curiosity of global developers who use our sensors and libraries to reimagine how we interact with the physical world. The out

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Gain Security

With our advanced Computer Vision, you can keep an eye on what's important to you while you're away. Monitor your home or business 24/7, 365 via our mobile MATRIX app and online dashboard

TAKE CONTROL

Connect to and interact with other IoT devices already in your home or business with the MATRIX. Pair them seamlessly using your mobile device or through the web.

GET ASSISTANCE

MIA or MATRIX Intelligent Assistant, can help you start your day, keep you organized, and assist when you need it most. Use both voice and gesture commands to communicate with MIA.

Connect "Things" Easily

Use the MATRIX App Market and mobile set up app to download powerful applications, ranging from Smart Home to Smart Warehouse, in a matter of minutes.

Leverage the Hardware

The MATRIX allows your pace to work for you. Using pioneering computer vision technology and measuring aspects of your physical environment like movement, temperature, and more, this device helps you live smarter.

"All you need in this life is ignorance and confidence; then success is sure. "
– Mark Twain

WE ARE ON THE WEB : WWW.SRMEASWARI.AC.IN