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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"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

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-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.
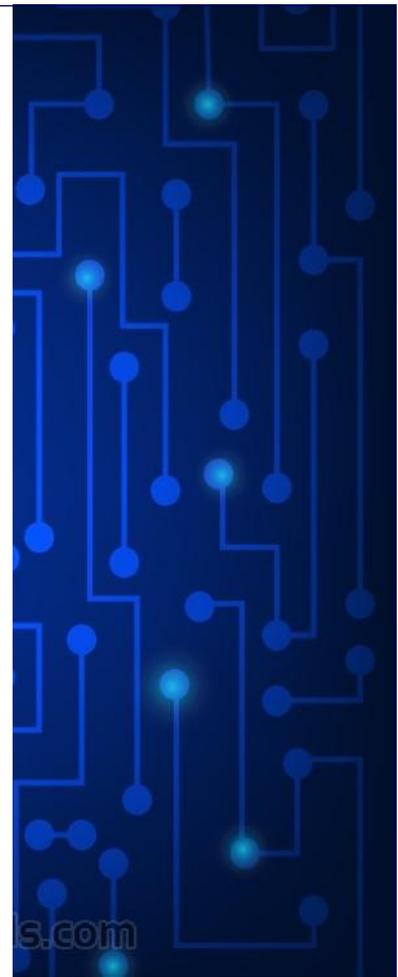
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-English Proverb

EVENTS

NBA VISIT

The National Board of Accreditation (NBA), India was initially established by AICTE (All India Council of Technical Education) under section 10 (u) of AICTE act, in the year 1994, for periodic evaluations of technical institutions & programs basis according to specified norms and standards as recommended by AICTE council. The NBA peer team visited the department of Electronics and Communication Engineering, Easwari Engineering College from October 6 to October 9.

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

COMPETITIONS

Name of Competition : Sri Gnanasekaran Velayudham Memorial Trophy for Table Tennis

Prize: 2nd & Best Player award

Date: October 29

S.no	Name	Year	Section
1.	Sanjay A.V	II	C

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-English Proverb

SNEAK PEEK

(A glance into the latest technological developments and inventions)

IBM's Going to bring "In-Memory Computing" Architecture

In-Memory Computing refers to the storage of information in the RAM of dedicated servers instead of relational databases operating on slower disk drives. It isn't limited to that; it's an emerging concept that aims to replace the traditional von Neumann computer architecture which divides the computation and memory into two different devices.

In traditional computers, the moving of data back and forth between RAM and CPU makes the process slower and consumes more energy. Tech giant IBM has announced that it has created an unsupervised machine-learning algorithm that runs on one million phase change memory devices (PCM). PCM is a type of computer RAM that stores data by changing the state of the matter.

IBM's algorithm was demonstrated running on one million PCM devices. Compared to our classical machines, this innovation is expected to bring 200 times improvements in both speed and energy efficiency.

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— Mark Twain

As a result, this technology could turn out to be suitable for "enabling ultra-dense, low-power, and massively-parallel computing systems for applications in AI."

Here, the PCM devices being talked about had been made using a germanium antimony telluride alloy, stacked between two electrodes. When a tiny electric current is applied to the material, due to heating, its state changes from amorphous to crystalline.

"The result of the computation is also stored in the memory devices, and in this sense the concept is loosely inspired by how the brain computes," said Dr. Abu Sebastian, a scientist, and IBM Research.

-Sriram PR IIIC

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