

TRANSEGE

**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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The Editorial Team

Ms T. Gophika , Asst. Professor,
ECE Department

- Srilakshmi G III C
- Ashwin Srinivas III A
- N Ajit Aditya IV A
- Hashwini Palani IV A
- S.P.Mirithika III B
- Kavi Selvi III B
- Sisira K III C
- RJ Anand II A
- Roshan II B
- Surya II B

“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

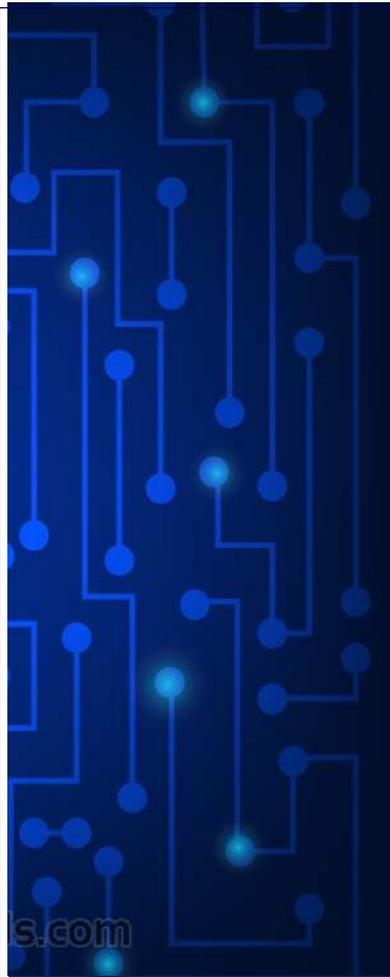
M6:

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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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

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

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:

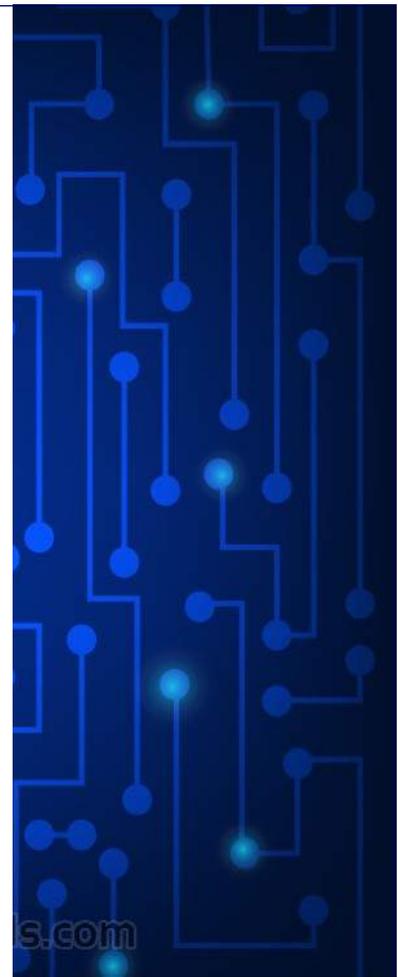
PEO1: Graduates will possess competency in mathematics, science and engineering fundamentals for solving Electronics and Communication engineering problems.

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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GUEST LECTURE ON ENTREPRENEURSHIP

INTRODUCTION:

The guest lecture on “10 steps to entrepreneurship” was graced by Dr.E.Bhaskaran who holds several accolades and is a pioneer in the field of industries and commerce. The event took place in the Seminar hall, Electronics Block at 1:30 PM. It was attended by about 100 IETE members who were keen in learning about the various facets of entrepreneurship.



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The lecture began with a brief introduction about start-up companies, the need to develop, organise and manage a business venture and tackle the risks it poses. The Chief guest further elucidated how entrepreneurship combined with labour, innovation and risk taking can transform the economy of a country.

He then explained about an entrepreneurial environment and how economic, socio-cultural and political factors influence people to take up entrepreneurial activities. Innovations in this field shape our way of living and create lucrative job opportunities for youngsters who are still blinded by software companies.



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To become a successful entrepreneur determination and in-depth knowledge of current trends in business is required. The Chief Guest consolidated this and beautifully explained the same in 10 easy and direct steps as follows;

1.CONCEPT

The integral part of any company is the rudimentary concept on which it is built. The concept may be simple but well established in terms of technology, uses, revenue and marketing strategies. A start-up company completely relies on its own formulated concept as any plagiarism of ideas may make it difficult to compete with other companies.

2.FEASIBILITY

While concept is important, feasibility is the factor that turns a dream into reality. It is what makes a company practically stable. Every year, feasibility reports must be examined to keep a check on the progress. Analysis of the drawback in the existing product should also be made.



3.LOCATION

One of the earliest decisions any entrepreneur has to make is choosing a location for a business. Minimal costs, availability of raw materials, means of transportation are features which make a location desirable. Government provides special assistance to areas of high unemployment and this must also be acknowledged.

4.MACHINERY

Important production processes require quality machinery which accelerate growth. It allows mass production of various products in short time. Thus, proper machinery plays a vital part in start-up companies.

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5.LICENSE

It is important to ensure that a business is properly insured and registered. This brings protection to the company, employees and clients. Also, it aids in protecting personal information. A licensed company is trust worthy and popular among people.

6.FINANCING

Management of finances is important for meeting daily expenses and payments. Inefficient management can lead to shortages. Hence funds are required for business growth and maintaining customer base. For start-up companies, finance and budget is the major concern as low revenues may even cause a business to shut down

7.IMPLEMENTATION

Once an agenda has been made implementation is the next step. Implementing the project is one of the tedious stages in initiating the business. It is risky and problems concerning execution may arise. But an entrepreneur must not quit because of these hurdles.

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8. STATUORY

Clearance of various taxes like IT, VAT, GST should be made by the entrepreneur. They must also be clear in the schemes provided to the employees and users.

IEDP:

Indian Entrepreneur Development Program is an E-learning initiative which contains 7 hubs and 70 colleges associated with reputed institutions like Anna University- Chennai, Anna University- Thirunelveli, Kumaraguru University- Coimbatore, Thiagaraya University- Madurai etc.

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The lecture was beneficial and created hope for budding entrepreneurs. It helped students achieve a comprehensive knowledge on initiating a business and establish oneself as a successful entrepreneur. The event ended with a vote of thanks.

Guest Lecture – Comms and Bytes

**Guest Speaker: Mr. Velmurugan Manoharan,
Solutions Architect – IoT,
Prodapt Solutions Pvt. Ltd.**

The session started with the highlights of the guest’s area of interest and his working environment. The students were challenged to relate Electronics with Communication and justify the inter-relation between, both the streams. The session was highly interactive as the speaker was very enthusiastic and made the students to recollect the needed basics and answer the shot out questions, every now and then.



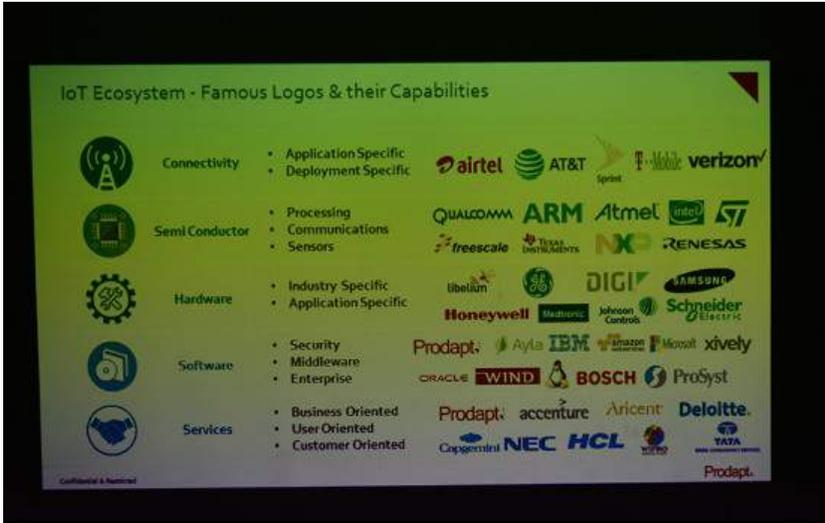
The concepts behind Internet of Things, Cyber Security, Machine Learning, Data Science, Artificial Intelligence, Deep learning, Big Data, Augmented / Virtual Reality etc. were briefed by relating them to real time examples. The basic understanding of modulation techniques and its varied need to built different applications were dealt with. The OSI layers and the vital role of each layer for any application were revealed which proved to be an eye opener to the students.

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The expectations of the core companies and their thirst to hire the well equipped candidates were words of enlightenment to the audience. The guest speaker listed out the major product companies in the market and matched them with the preferred skills; and clarified it in a better way, how the students could equip themselves with the required industrial needs.

The most interesting part was the queries and discussion on real time projects. Students were asked to address some societal needs of the day and they themselves were made to think on analyze the solutions for the same.



On the whole, the session had different phases like recollection to basics, learning a newer science, focus on building a thoughtful application and career guidance as well. To add up to the enthusiasm, the auspicious day added another feather to the crown of SECE office bearers. They were acknowledged and handed over the badges, by the guest speaker.



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Events

Name of Lecture: IoT

Conducted By: Karthikeyan Vaiyapuri

<i>S.no</i>	<i>Name</i>	<i>Year</i>	<i>Section</i>
1.	Kaviselvi	III	B
2.	Segu Noordeen	III	B
3.	Madhumitha MK	III	B
4.	Narayanan R	III	B

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COMPETITIONS

Name of Competition : Minute To Win It

Conducted By: Meenaksi Sundarajan

Prize: 1st

S.no	Name	Year	Section
1.	Hisham Sha-lamathullah	III	B
2.	Kaayathiry	III	B
3.	Segu Noordeen	III	B

Name of Competition: Breaking Code

Conducted By: Sri Sairam Eneineering College

Prize: 2nd

S.no	Name	Year	Section
1.	Srilakshmi G	III	C
2.	Sudarshana Lakshmi	III	C

Name of Competition: Connexions

Conducted By: Sri Sairam Engineering College

Prize: 3rd

S.no	Name	Year	Section
1.	Srilakshmi G	III	C
2.	Sudarshana Lakshmi	III	C

Name of Competition: Ipl bidding

Conducted By: Sri Sairam Engineering College

Prize: 2nd

S.no	Name	Year	Section
1.	Akshay S	III	A
2.	Adhethya B	III	A

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Name of Competition : Minute To Win It

Conducted By: Meenaksi Sundarajan

Prize: 2nd

S.no	Name	Year	Section
1.	Sudharsheini E	III	C
2.	Vandana R	III	C

Name of Competition : Fuzzy Logics

Conducted By: Loyola ICAM

Prize: 3rd

S.no	Name	Year	Section
1.	Sisira K	III	C
2.	Yuvasree S	III	C

Paper Presentation

Title: Brainport device

Placed: 1st

Location: Meenaksi Sundarajan

S.No	Name	Year	Section
1.	Narayanan	III	B
2.	Kaviselvi	III	B

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– T wain



NON-TECHNICAL POEMS

AN ODE TO TEACHERS

As a person who showers love
As a friend who yields a helping hand
As a teacher who kills the darkness of ignorance
As a book that increases knowledge
And as everything no-one could have imagined
There are no words to express my gratitude

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

Sudharsheini E
III C



Reach Us

**THE ELECTRONICS AND COMMUNICATION
ENGINEERING DEPARTMENT
EASWARI ENGINEERING COLLEGE**

Bharathi Salai, Ramapuram,
Chennai – 600 089.
Tamil Nadu, India .

Tel : 91 – 44 - 2249 0853, 2249 5420, 4392 3041. **E-mail :** eecw@vsnl.com

WE ARE ON THE WEB : WWW.SRMEASWARLAC.IN