

# 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

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- Hashwini Palani IV A
- S.P.Mirithika III B
- Kavi Selvi III B
- Sisira K III C
- RJ Anand IIA
- Roshan IIB
- Surya IIB

“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:

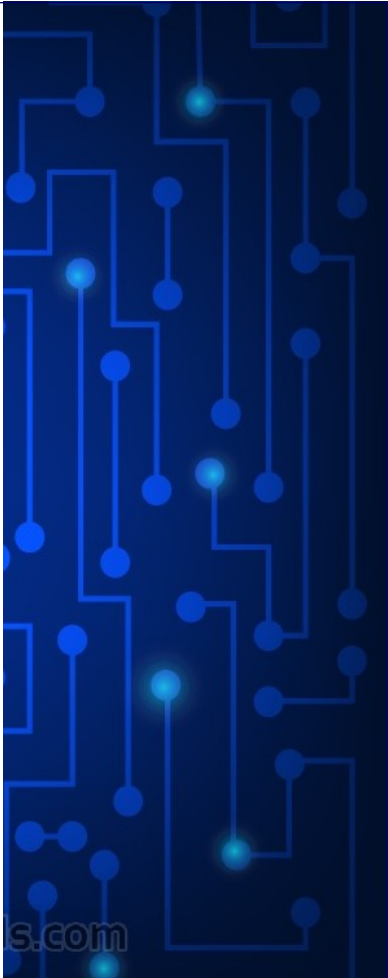
Produce graduates of International distinction, committed to Integrity, Professionalism and lifelong learning by widening their knowledge horizons in range and depth.

### 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:

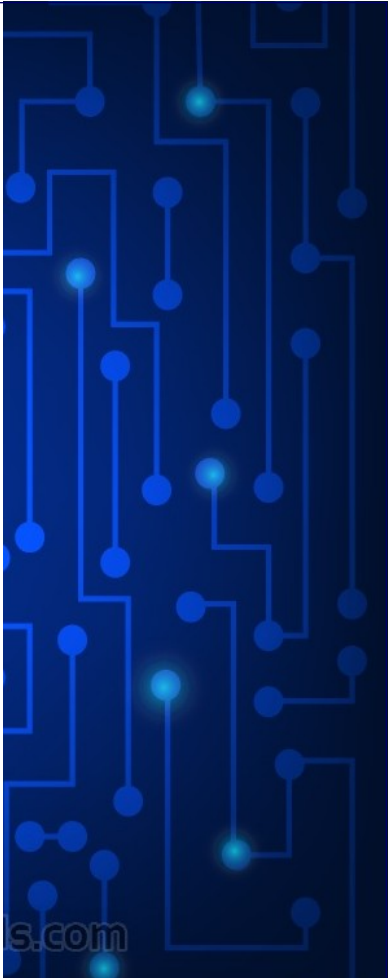
To produce graduates with technical expertise, professional attitude and ethical values

#### 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:**

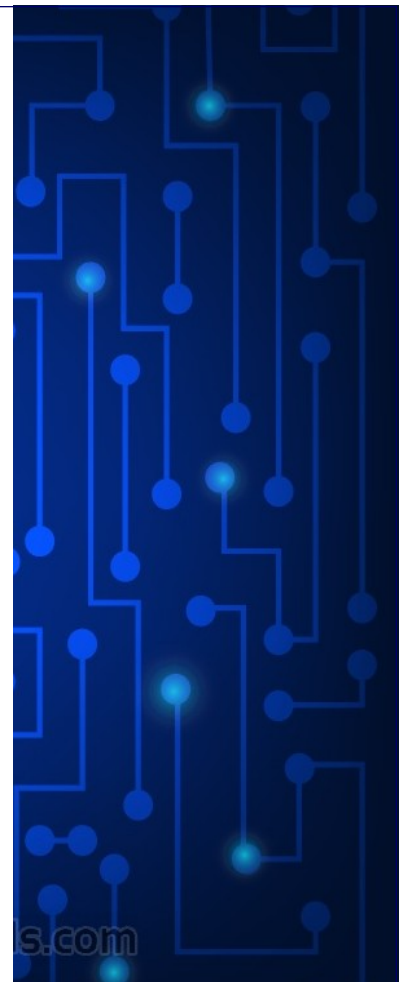
**PEO1:** Graduates will possess competency in mathematics, science and engineering fundamentals for solving Electronics and Communication engineering problems.

**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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# Faculty Events

## Conference on 5Gmm Wave Radio Transmission for Ultra High Speed Wireless Technologies

**Duration:** 13-17 December 2017.

**Resource person: :**

IIT Kharagpur, Debharathisen,

IIT Kanpur,

Abhishek Kumar gupta

IIT warangal, Dr Vengatamani

PEC, Dr. Tamilselvan

PEC, Dr. Vijaya Lakshmi

PEC, Dr. Dhananjayan

PEC, Dr. Jeyanthi,

PEC, Dr. Saminathan, PEC, Dr. Sudha Florance

**Venue:** Pondicherry Engineering College

**Attended by faculties:** S Uma Maheswari &  
P. Binipalas

### PROGRAM ON ART OF DOING RESEARCH

**Date** : 16th Dec 2017

**Attended by** : Mrs. R. Hema & Mrs. N. Vidhyalakshmi

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## LabVIEW NXG demonstration by NI instruments

**Resource person:** :Senior and Application Engineer from NI

**Venue:** Hyatt Regency

**Attended by faculties:** Mrs.B.Jesvin Veancy  
Mrs.Caroline Jebakumari and Ms.Gowthami

Trending research ideas in developing of millimeters wave technology was thrown light during an One day Conference, LabVIEW NXG demonstration by NI instruments in Hyatt residency, Chennai

**Outcome:** New version of LabVIEW demonstration is given with all added feasible technology ideas.

### FDP ON SECURE SYSTEMS ENGINEERING AT IIT MADRAS

**Date** :5th -14th Dec 2017

**Attended by** :Mrs.P.Meenakshi Vidya  
Mrs.B.Jesvin Veancy  
Mrs.Caroline  
Jebakumari

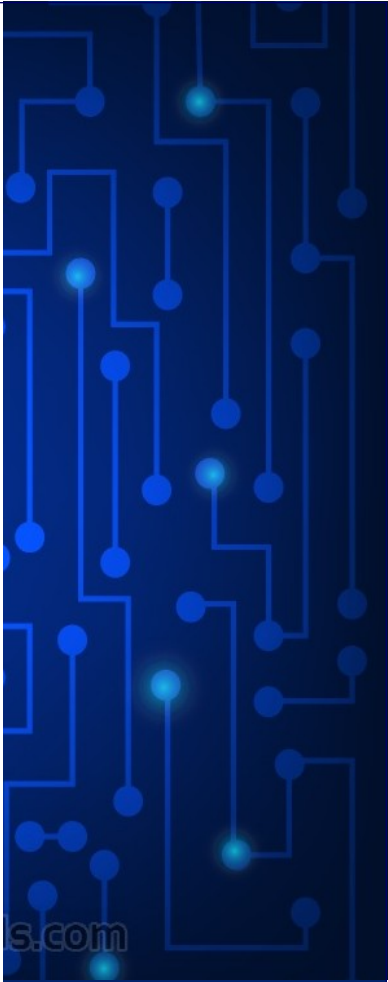
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## Faculty Publications

- A research paper entitled " Cognitive Radio and its impact of Throughput with channel optimization technique " by **Dr.D.Sivakumar,Professor, ECE Department**, has been published in Journal of computational and theoretical nano science ISSN: 1546-1955,SCI index, Vol 14, Dec 2017,pp. 430-434.
- A research paper entitled " Pre quality indices analysis using empirical wavelet transform and rational dilation waveform " by **Dr.D.Sivakumar,Professor, ECE Department**, has been published in Journal of computational and theoretical nano science (iP:1.6),ISSN: 1546-1955 ,SCI index, Vol14, Dec 2017, pp. 3220–3226.
- A research paper entitled " Lossless Medical Image Compression Algorithm Using Orthogonal Moment Transforms " by **Mrs. S.Uma Maheswari,AP,ECE Department**, has been published in Advanced research in Electrical and Electronic Engineering (AREEE),Vol 4, Issue No. 5, December 2017, ISSN No. [2349-5812](#), pp. 285-288.
- A research paper entitled " Embedding data in audio signals using HSAEMD Algorithm" by **Mrs. R.Senthamizh Selvi,Associate Prof, ECE Department**, has been published in Third IEEE International Conference on Science Technology Engineering & Management (ICONSTEM), IEEE Xplorer,pp.384-388.



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# Implant Trainings

**Conducted By:** Prasar Bharati, Doordharshan  
Kendra, Chennai

**Duration:** 11.12.2017-15.12.2017

<i>S.no</i>	<i>Name</i>	<i>Year</i>	<i>Section</i>
1.	Ramya	III	C
2.	Roshini	III	C
3.	Sathyabama	III	C
4.	Sudharsheini E	III	C
5.	Tharani N	III	C
6.	Vandana R	III	C
7.	Saathveena M	III	C
8.	Saikrishnan	III	C
9.	Syed Afeef Ahmed	III	C
10.	Shwetha S	III	C

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– Mark Twain

<i>S.no</i>	<i>Name</i>	<i>Year</i>	<i>Section</i>
11.	Vinodini R	III	C
12.	Theepalakshmi	III	C
13.	Yeshashwini	III	C
14.	Varsha Ramesh	III	C

**Conducted By:** Prasar Bharati, Doordharshan  
Kendra, Chennai

**Durafion:** 13.12.2017-15.12.2017

<i>S.no</i>	<i>Name</i>	<i>Year</i>	<i>Section</i>
1.	Harini S	III	A
2.	Chandini V	III	A
3.	Arunkumar E	III	A
4.	Bharanidharan	III	A
5.	Aishwarya V	III	A

**Conducted By:** Prasar Bharati, Doordharshan  
Kendra, Chennai

**Durafion:** 13.12.2017-15.12.2017

<i>S.no</i>	<i>Name</i>	<i>Year</i>	<i>Section</i>
1.	Harini S	III	A
2.	Chandini V	III	A
3.	Arunkumar E	III	A
4.	Bharanidharan	III	A
5.	Aishwarya V	III	A
6.	Narayanan	III	B

**Conducted By:** Hyundai pvt Ltd,  
Sriperumbudur, Chennai

**Durafion:** 04.12.2017-09.12.2017

<i>S.no</i>	<i>Name</i>	<i>Year</i>	<i>Section</i>
1.	Deepak V	III	A
2.	Harikrishnan V	III	A
3.	Adithya V	III	A

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cess is sure.”  
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**Conducted By:** Doordharshan Kendra, Chepauk

**Duration:** 4-12.2017--8.12.2017

S.no	Name	Year	Section
1.	Ashok Kumar C	III	A
2.	Balaji S	III	A
3.	Praveen Balaji	III	A
4.	Baalu Ganesh M	III	A

**Conducted By:** Hatsun Agro pvt  
Limited, Kanchipuram

**Duration:** 15-12.2017--17.12.2017

S.no	Name	Year	Section
1.	Harshini K	III	A

**Conducted By:** BSNL, Telecom

<i>S.no</i>	<i>Name</i>	<i>Year</i>	<i>Section</i>
1.	Naresh C	III	B

**Conducted By:** BSNL

**Duration:** 4-12.2017--8.12.2017

<b>S.N</b>	<b>Name</b>	<b>Year</b>	<b>Section</b>
<b>0</b>			
<b>1.</b>	<b>Rufus</b>	<b>II</b>	<b>B</b>
<b>2.</b>	<b>Pranav</b>	<b>II</b>	<b>B</b>
<b>3.</b>	<b>Naresh</b>	<b>II</b>	<b>B</b>
<b>4.</b>	<b>Mugilan</b>	<b>II</b>	<b>B</b>
<b>5.</b>	<b>Rohith Kumar</b>	<b>II</b>	<b>B</b>
<b>6.</b>	<b>S. Nivetha</b>	<b>II</b>	<b>B</b>
<b>7.</b>	<b>T.Nivetha</b>	<b>II</b>	<b>B</b>
<b>8.</b>	<b>Madhumitha</b>	<b>II</b>	<b>B</b>
<b>9.</b>	<b>Moushmi</b>	<b>II</b>	<b>B</b>
<b>9.</b>	<b>R.Priyadarshini</b>	<b>II</b>	<b>B</b>
<b>10.</b>	<b>Rubika</b>	<b>II</b>	<b>B</b>
<b>11.</b>	<b>Madhushalini</b>	<b>II</b>	<b>B</b>
<b>12.</b>	<b>Roshan</b>	<b>II</b>	<b>B</b>

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**Conducted By:** Swiss Garnier

**Durafion:** 2-12.2017--12.12.2017

S.no	Name	Year	Section
1.	Abishek L	III	A

**Conducted By:** Hubbell India Pvt Ltd

**Durafion:** 4-12.2017--20.12.2017

S.no	Name	Year	Section
1.	Bharathram	III	A

**Conducted By:** Codebind Technologies

**Durafion:** 23-12.2017--27.12.2017

S.no	Name	Year	Section
1.	Theepalakshmi	III	C
2.	Vidya	III	C

# Workshops

**Name of Workshop:** IOT

**Conducted By:** Lema Labs

**Duration:** 16-12.2017-17.12.2017

S.no	Name	Year	Section
1.	Saathveena M	III	C
2.	Saikrishnan	III	C
3.	Srilakshmi G	III	C
4.	Thiyagaraj	III	C
5.	Vinodini	III	C
6.	Vishal	III	C
7.	Varsha Ramesh	III	C

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– T wain



**Name of Workshop:** Embedded Systems and Robotics

**Conducted By:** Azeez Academy and Labs

S.no	Name	Year	Section
1.	Naresh	III	B
2.	Narayanan	III	B

## Guest Lectures

**Name of Guest Lecture:** IOT

**Conducted By:** Twenty19

S.no	Name	Year	Section
1.	Narayanan	III	B

# Makeathon/Hackathon

**Conducted By:** Lema Labs

**Duration:** 23-12.2017-24.12.2017

**Project Title:** Ambulance & Traffic monitoring system

S.no	Name	Year	Section
1.	Srilakshmi G	III	C
2.	Sudarshana Lakshmi K	III	C
3.	Sriram S	III	C
4.	Ayesha Siddiqah	III	C



# TECH NEWS

## UK satellite to make movies from space

**A British satellite has gone into orbit on an Indian rocket to acquire full-colour, high-definition video of the surface of the Earth. The demonstrator is expected to pave the way for a series of at least 15 such spacecraft, which will be operated by the Guildford-based company Earth-i. The small, low-cost UK mission was one of 31 payloads riding on the Indian Polar Satellite Launch Vehicle. It lifted off from the Satish Dhawan spaceport in Andhra Pradesh. Controllers made first contact with the UK satellite as planned within a few hours. The spacecraft is a pre-production model. If it performs well over the coming months, its manufacturer, SSTL, also in Guildford, will proceed with Earth-i's first batch of five operational spacecraft. The forthcoming constellation - which will be known as Vivid-i - will be the first of its kind to provide hi-def, full-colour video.**

**Short movies of the Earth's surface have been acquired from orbit before, but not on the envisaged scale. The demonstrator will circle the globe at an altitude of 505km. It has the ability to point and stare at a particular location. It can take a still picture or gather two-minute movie sequences. "We can collect up to 50 frames per second which is a lot of information," explained Earth-i CEO Richard Blain. "That allows us to stack the individual images and increase our effective resolution, achieving somewhere around 65cm to 75cm," he told BBC News.**

**From:**

**BBC News**

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– Mark Twain**



Reach Us

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