

TRANSEGE

Dear Readers,

For years, “Trans-edge” has been the enthusiastic publication of the activities by the Technocrats of the ECE department. It aims to enlighten the readers on the various areas of technology that the faculty and the students have been associated with. It also aims to throw light on the latest technological innovations that inspire the young generation to explore the field. One such innovative idea ,for the first time a “**Piezoelectric nano generator**” that is capable of generating electrical energy from diverse sources – mechanical, acoustic and wind – has been developed. The device, fabricated by a team led by researchers from the Indian Institute of Technology (IIT) Kharagpur, has remarkable energy conversion efficiency of 62%, high output current (over 12 microampere), voltage (about 61.5 volt) and power density (over 9 mW per cubic cm). The high voltage of nano-generator can be used to light up about 100 commercially available microwatt LEDs.

Dr.K.Murugesan,
Vice Principal (Admin) and
Head of the Department (ECE)

INSIDE THIS ISSUE

The Team	2
Guest lecture	9
Industrial Visit	10
Pragyostav '19	11
Events Participated	15
Student's Corner	19

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“Intelligence plus
character that is
the goal of true
e d u c a t i o n .”
-Martin Luther King

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:

Synergize 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 caliber and contribute immensely to the process of Nation building through partnership with Community and Industry.



“Education is the most powerful weapon which you can use to change the world.”

-Nelson Mandela

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 inter disciplinary field



“Don’t judge each day by the harvest you reap but by the seeds that you plant.”

– Robert Louis

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.

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.



“The mind is not a vessel to be filled, but a fire to be kindled.”

-Plutarch



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

“If you don’t build your dream, someone else will hire you to help them build theirs.”

– Dhirubhai Ambani



PROGRAM OUTCOMES:

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/ Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate considerations for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

“Our children are only
as brilliant as we allow
them to be.”
- Eric Micha’el
Leventhal

PROGRAM OUTCOMES:

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation , make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to once own work as a member and leader in a team to manage projects and in multidisciplinary environments.

PO12 : Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

“The difference between a successful person and others is not a lack of strength, not a lack of knowledge, but rather a lack of will.”

-Vince Lombardi

GUEST LECTURE ON RECENT TRENDS IN BIOMEDICAL INSTRUMENTATION

A guest lecture on “Recent trends in biomedical instrumentation”, was organized on 27th February 2019, at Electronics block –1 Seminar hall from 11.00 am to 12. 30 pm. The speaker was Dr. Sabanayagam Vaidyanathan who is currently working with MGM Healthcare , Chennai as Consultant Intensivist and Anesthetist. The session was organized for III Year ECE and II year ECE A section students. Faculty Coordinators of the event were Mrs.Bindu Babu, Mr.J.Gurumurthy and Mr.R.Praveen Kumar.



“The best teacher is not the one who knows most but the one who is most capable of reducing knowledge to that simple compound of the obvious and wonderful.”
-H.L. Mencken

INDUSTRIAL VISIT

An industrial visit to SRM Speciality Hospital, Ramapuram, Chennai, was organized for III year ECE students to provide exposure to Medical Electronics course on 18.02.2019.



Explanation and demonstration about Lead System Placing (ECG)



Blood Pressure Monitoring Process

“Begin now to be what you will be hereafter”

- Saint Jerome

PRAGYOTSAV'19

The IETE student forum of Easwari Engineering College in association with Department of ECE, organized a National level Tech Fest “*PRAGYOTSAV'19*”, on 28th Feb 2019. The IETE faculty coordinators of the event were Dr.D.Jessintha and Ms.T.Gophika. The inaugural function took place at Hi-Tech hall I at 9.30am in the gracious presence of is Mr.Vishnu Venugopalan, IAS and Executive Director of Tamil Nadu Skill Development Corporation. The event has five contests namely, Drone racing championship, Robo Soccer, Paper presentation, Techno compete and Robo line. The valedictory function was at Open Air Theatre with the presence of “Makkal Selvan”, Mr.Vijay Sethupathy.

“Action is the foundational key to all success.”

– Pablo Picasso



Inaugural ceremony



Dignitaries on the dias during the ceremony

“Action is the foundational key to all success.”

– Pablo Picasso



Momento to the Chief Guest Mr.Vishnu Venugopal, IAS



***IETE student and faculty co-ordinators with the Chief Guest, Principal ,
VP Admin_HoD /ECE***

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“Begin now to be
what you will be
hereafter”

- Saint Jerome



Robo Soccer with team members



Techno Compete with team members



Drone Racing



Robo line event with team members



***Valedictory function at Open Air Theatre with the presence of
“Makkal Selvan”, Mr.Vijay Sethupathy***

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“ Aim for the moon.
If you miss, you may
hit a star.”

—W. Clement Stone

EVENTS PARTICIPATED

DATE: 28TH FEBRUARY 2019

EVENT: PRAGYOSTAV– TECHNO COMPETE

LOCATION: EASWARI ENGINEERING COLLEGE

S.NO	NAME	YEAR	SECTION
1.	Ms.Supritha P	I	C
2.	Ms. Shrija N	I	C
3.	Ms. Thejjaswini M R S	I	C

*“It is amazing what you can accomplish if you do not care who gets the credit.”
- Harry S. Truman*

DATE: 23 FEBRUARY 2019

EVENT: TALENTIA-COMIC STRIP

LOCATION: EASWARI ENGINEERING COLLEGE

S.NO	NAME	YEAR	SECTION
1.	Shreya	IV	C

DATE: 23 FEBRUARY 2019

EVENT: TALENTIA-JUNK ART

LOCATION: EASWARI ENGINEERING COLLEGE

S.NO	NAME	YEAR	SECTION
1.	Ms. Shreya S	IV	C
2.	Ms. Nidershana	III	B

DATE: 23 FEBRUARY 2019

EVENT: TALENTIA-Channel Surfing

LOCATION: EASWARI ENGINEERING COLLEGE

S.NO	NAME	YEAR	SECTION
1.	Mr. Mugilan K	III	B
2.	Mr. Rohit N T	III	B
3.	Mr. Pranav Dev K R	III	B
4.	Mr. Jashwath A D	I	A

“Optimism is the faith that leads to achievement . Nothing can be done without hope and confidence.”

- Helen keller

DATE: 23 FEBRUARY 2019

EVENT: TALENTIA-VJ HUNT

LOCATION: EASWARI ENGINEERING COLLEGE

S.NO	NAME	YEAR	SECTION
1.	Mr. Fayaz Hammed	IV	A
2.	Mr. Ashwin M Srinivas	IV	A

DATE: 23 FEBRUARY 2019

EVENT: TALENTIA- PAPER DRESSING

LOCATION: EASWARI ENGINEERING COLLEGE

S.NO	NAME	YEAR	SECTION
1.	Ms. Sajitha D	III	B
2.	Ms. Jetal R K	III	A

*"It is amazing what
you can accomplish if
you do not care who
gets the credit."
- Harry S. Truman*

DATE: 23 FEBRUARY 2019

EVENT: TALENTIA-ADZAP

LOCATION: EASWARI ENGINEERING COLLEGE

S.NO	NAME	YEAR	SECTION
1.	Mr. Fayaz Hammed	IV	A
2.	Mr. Adethya Bhaskar	IV	A
3.	Mr. Ashok Chandiliya	IV	A
4.	Mr. Murali K B	IV	B
5.	Mr. Tejas kumar K S	IV	C

"It is amazing what you can accomplish if you do not care who gets the credit."
- Harry S. Truman

DATE: 23 FEBRUARY 2019

EVENT: TALENTIA- DEBATE

LOCATION: EASWARI ENGINEERING COLLEGE

S.NO	NAME	YEAR	SECTION
1.	Ms. Sri Lakshmi G	IV	C
2.	Ms. Aishvarya R	III	A

STUDENT'S CORNER

PAINTING

BY: Ms.Priyavarshini ,ECE-I-B



“Go as far as you can see; when you get there you will be able to see the further

- Thomas Carlyle

STUDENT'S CORNER

PHOTOGRAPHY

BY: MR. Pradeep ,ECE-I-B



“Press forward.
Do not stop, do not
linger in your
journey, but strive
for the mark set
before you.”

— G e o r g e
Whitefield



Reach Us

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“ THE FUTURE
BELONGS TO THOSE
WHO BELIEVE
IN THE BEAUTY OF
THEIR DREAMS.”
—ELEANOR ROOSE-
VELT