

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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- 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 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:

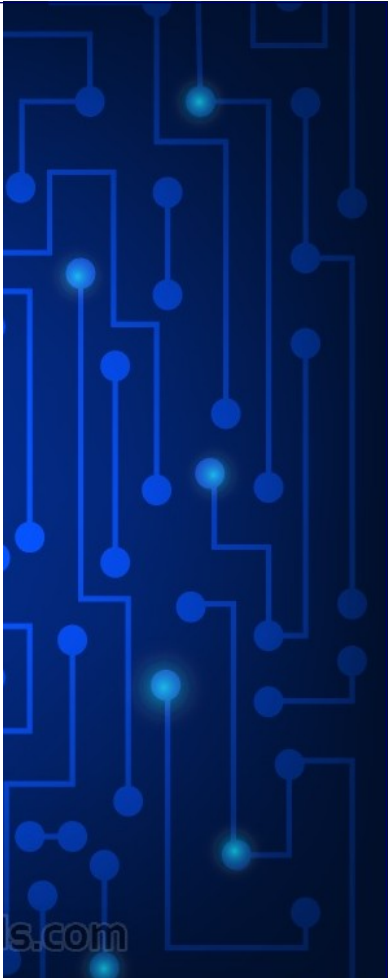
Produce graduates of International distinction, committed to Integrity, Professionalism and lifelong learning by widening their knowledge horizons in range and depth.

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:

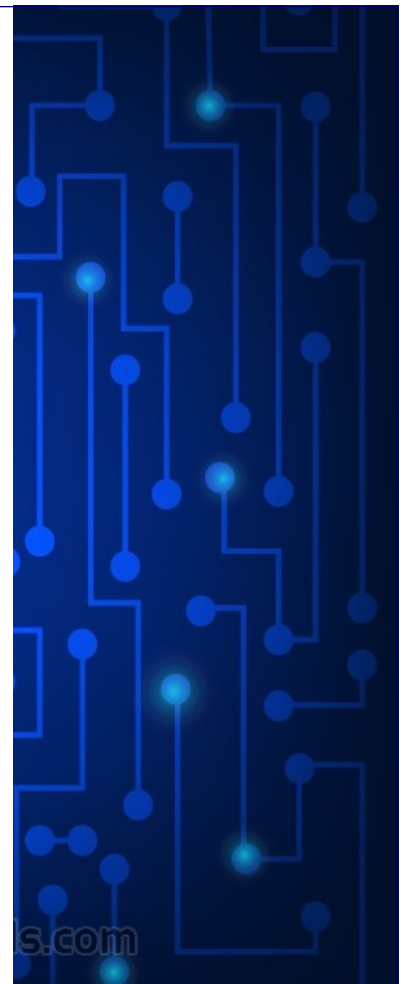
PEO1: Graduates will possess competency in mathematics, science and engineering fundamentals for solving Electronics and Communication engineering problems.

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

Hands on training on RF Circuits and antenna design using ADS, CST and HFSS

Duration: 27.11.17 to 29.11.17

Resource person: Ms. Preethiba, RF analyst, Tesla minds, Chennai, Mr. G. Sridhar director , Tekinow technologies

Venue: SA engineering college

In this hands on session, it was taught how to design RF Circuits using ADS , microstrip patch antenna design using ADS, CST and HFSS. On the last day , demonstration on Electromagnetic interference was given.

Attended by faculties: Ms. T. Gophika, Mrs. D.Jessintha, Ms.A.Gowthami , Mrs.N. Ammu Abirami , Mrs.Bindu Babu

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Modeling and Simulation of Next Generation Optical Communication and Networks

Duration: 30.11.17 to 2.12.17

Conducted by: Department of EEE, Faculty of Engineering and Technology, SRM Institute of Science and Technology

The purpose of this workshop was to enlighten the need of Optical Technologies for next generation communication and networks, and kindle the interest of participants towards this pervasive and primordial technology. The workshop served as a forum for effective exchange of scientific knowledge and experience among experts, researchers active in the field of optical communications, discussion of various challenges posed by the next generation optical technologies and propose ideas and solutions to transform the current scenario of optical communication technologies.

Attended by faculties: Mrs.R.Hema and Ms.Surya

Implant Training

Name of Training: IoT

Conducted By: Unique Technology

Duration: 18-11-2017 to 20-11-2017

<i>S.no</i>	<i>Name</i>	<i>Year</i>	<i>Section</i>
1.	Cladius Mithuna	III	A
2.	Hamsaveni T	III	A
3.	Priyanka	III	B
4.	Nancy Prescilla	III	B

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– Mark Twain

COURSES

Name of Course : Kaizen Robotics Level 1

Conducted By: Lema Labs

Duration: 27th Nov-Dec 2

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

COMPETITIONS

Name of Competition: Kaizen Robotics Level 1 finals

Conducted By: Lema Labs

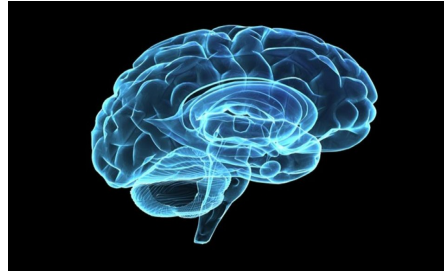
Prize: 1st

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

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TECH NEWS

New technology to map brain wiring



Scientists have created a new technique to map the network of connections within the brain, an advance that help scientists understand how the organ works.

The human brain is composed of billions of neurons wired together in intricate webs and communicating through electrical pulses and chemical signals. Although neuroscientists have made progress in understanding the brain's many functions - such as regulating sleep, storing memories, and making decisions - visualising the entire "wiring diagram" of neural connections throughout a brain is not possible using currently available methods. Using *Drosophila* fruit flies, researchers at California Institute of Technology (Caltech) in the US have developed a method to easily see neural connections and the flow of communications in real time within living flies.

Researchers developed a method for tracing the flow of information across synapses, called TRACT (Transneuronal Control of Transcription). Using genetically engineered *Drosophila* fruit flies, TRACT allows researchers to observe which neurons are "talking" and which neurons are "listening" by prompting the connected neurons to produce glowing proteins.

With TRACT, when a neuron "talks" - or transmits a chemical or electrical signal across a synapse - it will also produce and send along a fluorescent protein that lights up both the talking neuron and its synapses with a particular colour. Any neurons "listening" to the signal receive this protein, which binds to a so-called receptor molecule - genetically built-in by the researchers - on the receiving neuron's surface. The binding of the signal protein activates the receptor and triggers the neuron it is attached to in order to produce its own, differently coloured fluorescent protein. In this way, communication between neurons becomes visible. Using a type of microscope that can peer through a thin window installed on the fly's head, the researchers can observe the colourful glow of neural connections in real time as the fly grows, moves, and experiences changes in its environment.

From:

Doordarshan News

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— Mark Twain



Reach Us

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