

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 technology is the “**digital twin**”, which is the replica of physical assets, processes and systems. In this manner it enables simulation and testing of ideas even before the manufacturing begins. Technologies of the like pique the curiosity and interest of students and help recognize how electronics drives innovation.

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

INSIDE THIS ISSUE

The Team	02
Program attended by the faculty	08
Faculty achievements	09
Events Organized	12
Faculty induction program	13
Induction Program	17
Inplant Training	18
Workshop	22
Internship	22
Student's Corner	28

The Editorial Team

FACULTY EDITOR

Ms.T.Gophika ,Asst.Professor,
ECE department

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- Mr.Ashwin Srinivas IV A
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- Ms.Kavi Selvi IV B
- Ms.Sisira K IV C
- Mr.RJ Anand III A
- Mr.Roshan III B
- Mr.Surya III C

“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:

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.



“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

“All limitations
are self imposed.”
– **Oliver Wendell**

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.



“Problems are not stop signs, they are guidelines.”

– Robert H. Schiuller

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.

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

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 one's 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.

“Be so good they can't ignore you.”

– Steve Martin

PROGRAM ATTENDED BY THE FACULTY

Mrs. Bini Palas, ECE department attended the Faculty Development Program titled “*Adaptive Signal Processing and Machine Intelligence*” conducted by CMR Institute of technology, Hyderabad in association with NIT Warangal 4th June to 9th June 2018.



“It always seems impossible until it's done.”
-Nelson Mandela

FACULTY ACHIEVEMENTS

The following two faculty members of ECE department, *Mrs.D.Jessintha and Mr.L.Balaji* have defended their Ph.D viva - voce held on 14-06-2018 and 22-06-2018, for the award of Ph.D degree by Anna University, Chennai.



“Determine your priorities and focus on them. “

– Eileen McDargh

Dr.Jessintha Jebakumari



Title:

“Low power architecture for discrete cosine transforms”

Guide:

Dr.M.Kannan, Prof and Head, Department of Electronics Engineering, MIT Campus, Anna University.

Examiners:

Dr. P. Dananjayan, Professor, Department of Electronics and Communication Engineering, Pondicherry Engineering College.

Dr.Bal.S.Virdee, Professor and Head, Centre for Communication Technology, London Metropolitan University, United Kingdom.

Dr.M.Chandrasekaran, Professor, Department of Electronics and Communication Engineering, Government College of Engineering, Bargur.

“What we think,
we become. “

– Buddha

Dr.Balaji.L



Title of thesis:

“Complexity reduced mode decision for scalable video coding in smart healthcare application”.

Guide:

Dr. K. K. Thyagarajan, Professor and Dean (Academic), RMD Engineering College, Kavraipettai

Examiners:

Dr.P.Palanisamy, Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Trichy, Tamil Nadu, India.

Dr. Gulam Muhammad, Professor, College of Computer and Information Sciences, King Saudi University, Riyadh, Saudi Arabia.

“Simplicity is the ultimate sophistication.”

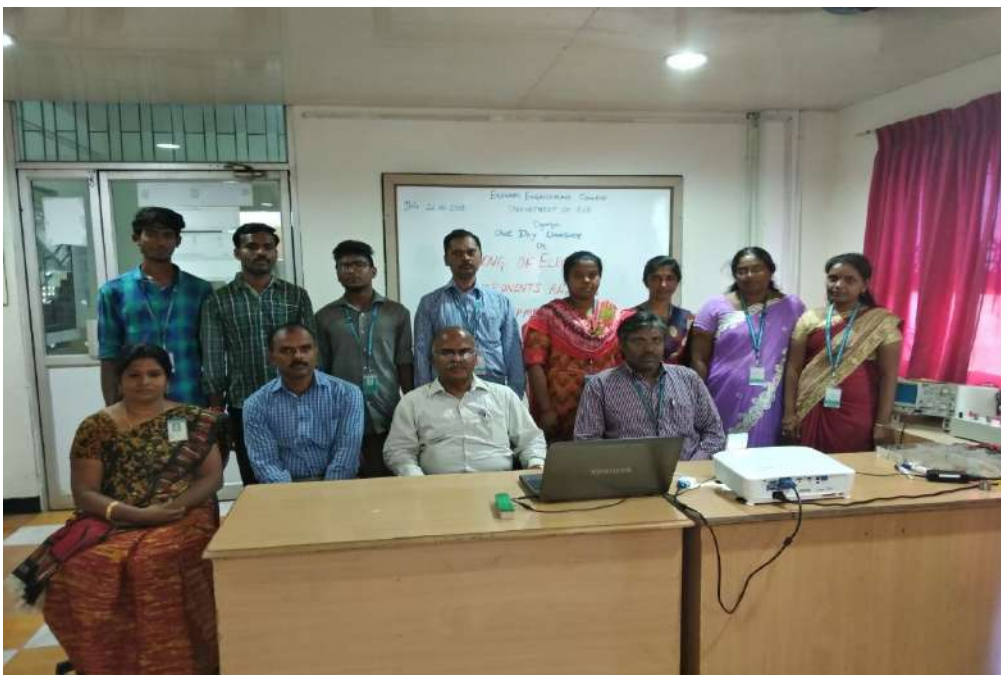
– Leonardo da Vinci

EVENTS ORGANIZED

WORKSHOP

The department of ECE conducted a one day workshop on “*Testing of Electronic Components and Equipments*”, for the benefit of non-teaching staff members from ECE,EIE and EEE departments on 22.6.2018.

Dr.K.Murugesan, Vice Principal (Academics) and Head, *Mrs.R.Senthamizh Selvi* , Associate Professor, *Mr.Kamarajan*, Assistant Professor, *Mr.B.Balan* , Assistant Professor , were the resource persons.



“Every moment is a fresh beginning. “

– T.S Eliot

FACULTY INDUCTION AND ORIENTATION PROGRAM

The department of ECE conducted the “*Faculty Induction and orientation program*” on 14.06.2018-15.06.2018. The convener of the event was *Mrs.S.Uma Maheshwari*, Assistant Professor (Sr.Gr),ECE. The other members present were *Ms. Sujitha Raveen*, the Student Counselor and *Mr.Venkatesh* from the HR department. All the new faculty members of all departments have attended the program. Professor *Sadhik*, “Former Vice chancellor”, of “**University of Madras**”, was the chief guest of the event inaugurated the event and delivered a speech on “**Creativity for Teachers**”. *Dr.K.Kathiravan* ,the *Principal* and *Dr.K.Murugesan*, the *Vice Principal(Academics)* and *Head of the department (ECE)*, also joined the inauguration.

“Strive for greatness.

– **Lebron James**

The second session was given by *Dr. Antony Michel Raj*, Vice Principal (Admin) & Head of the Mechanical Engineering department, on the topic **“Rules and Regulations”** of our college.

The third session was given by *Dr.N.Nagarajan*, ISO MR and HOD/EIE. He gave a meticulous explanation about the ISO 9001:2015 and the ISO 9001:2008 and briefed how it's implementation improves the academic standards of the institution.

The fourth session was handled by *Dr.K.Murugesan*, Vice Principal (Academics) and Head of the department of ECE. He delivered a talk on the topic **“Outcome based Education”** .



“Happiness depends upon ourselves.”
– Aristotle

On the second day, the program was begun by the chief guest ***Mr.S.Karthik, Principal Consultant, TCS.*** He conversed with the participants about the student requirements when they enter the day of joining in industries.

The second session of second day was addressed by ***Dr.Saravanan, Dean Academics.*** He gave elemental factors to improve the growth and result of departments and college.



“To live will be an awfully big adventure.”

– **Peter Pan**

The next session has been followed by ***Dr. Venkatachalapathy*** (*Dean Research*). He advised all faculty members to focus on the research on their domain or interdisciplinary, to make added results in more publications .



The Heads of the various departments addressed the Faculty members . The program concluded with the “*Vote of Thanks*”, given by ***Mrs. UmaMaheshwari*** of the ECE department. This program gave a good platform to know about various administrative policies of college.

“Nothing will work
unless you do”

- **Maya Angelou**

INDUCTION PROGRAM

The department of Electronics and Communication engineering conducted an *AICTE-ISTE sponsored Induction program on "ICT Based Instructional Design and Delivery for Outcome Based Education"* from 14.05.2018 to 19.05.2018 .

Dr.Ajit Kumar Kolar, Dr.Richa Verma,Dr.Edamana Prasad,Dr.ParagRavindran,Dr.Balaguruprasad and Dr.C.Vijayan (experts from IITM-TLC) were the resource persons of the event.

Dr.K.Rahimunnisa , Mrs.M.Uma Maheshwari , Mrs.Bini Palas of the ECE department were the organizers of the program.



“Don't raise your voice. Improve your argument.”
- Desmond Tutu

INPLANT TRAINING

DATE: 18.06.2018-22.06.2018

LOCATION: Doordashan Kendra , Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Balasubramaniam	III	A
2.	Mr.Kandhan.S	III	A
3.	Ms.Anusha.R	III	A

“Turn your wounds
into wisdom”

-Oprah Winfrey

DATE: 11.06.2018-15.06.2018

LOCATION: TVS Training and services, Ambattur

S.NO	NAME	YEAR	SECTION
1.	Mr.Bragadhesh Bharatwaj	III	A

DATE: 11.06.2018-15.06.2018

LOCATION: BSNL, Ekkaduthangal

S.NO	NAME	YEAR	SECTION
1.	Ms.Jebisha	IV	B
2.	Ms.Kanimozhi	IV	B

DATE: 04.06.2018-08.06.2018

LOCATION: Doordarshan,Chepauk

S.NO	NAME	YEAR	SECTION
1.	Mr.Prassana.A	IV	B
2.	Ms.Madhumitha.M. K	IV	B
3.	Mr.Maajid Na-	IV	B
4.	Ms.Kaayathiry.R	IV	B
5.	Mr.Segu Noorden.M	IV	B
6.	Ms.Ishwarya.R	IV	B
7.	Mr.Praveen.V	IV	B
8.	Mr.Hisham.S	IV	B

“No one has ever
become poor by
giving.”

- Anne Frank

DATE: 18.06.2018-23.06.2018

LOCATION: BHEL, Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Roshan.V	III	B

DATE: 18.06.2018-22.06.2018

LOCATION: BSNL, Ekkaduthangal

S.NO	NAME	YEAR	SECTION
1.	Ms.Nikhita Suranarayan	III	B
2.	Ms.Pooja.R.K	III	B

DATE: 11.06.2018-15.06.2018

LOCATION: BSNL, Chennai

S.NO	NAME	YEAR	SECTION
1.	Ms.Rubika	III	B
2.	Ms.Meera	III	B
3.	Ms.Ragadarshini.S	III	B

“Turn your wounds
into wisdom”

-Oprah Winfrey

DATE: 14.06.2018-19.06.2018

LOCATION: BHEL, Chennai

S.NO	NAME	YEAR	SECTION
1.	Kaviselvi.V	IV	B

DATE: 11.06.2018-15.06.2018

LOCATION: BSNL ,Chennai

S.NO	NAME	YEAR	SECTION
1.	Ms.Yuvasree	IV	C

DATE: 04.06.2018-13.06.2018

LOCATION: Chennai CMRL, Koyambedu

S.NO	NAME	YEAR	SECTION
1.	Ms.Ramya.S	IV	C
2.	Ms.Sandhya	IV	C
3	Ms.Sowmiya	IV	C

“The mind is a
wonderful servant but
a terrible master. “

- Robin Sharma

WORKSHOP ATTENDED BY

THE STUDENTS

DATE: 08.06.2018-10.06.2018

LOCATION: IITM Research Park,Tharamani

S.NO	NAME	YEAR	SECTION
1.	Mr.Karthikeyan.G	III	A
2.	Mr.Harish.R	III	A
3.	Ms.Jetal.R.K	III	A
4.	Mr.Jayachandran.S	III	A
5.	Ms.Gayathri.H	III	A

INTERNSHIP

DATE: 05.06.2018-05.07.2018

LOCATION: Visteon technical service centre, Guindy

S.NO	NAME	YEAR	SECTION
1.	Mr.Hariharasudhan	III	A

“Success is the best
revenge for anything”
- Ed Sheeran

DATE: 18.06.2018-23.06.2018

LOCATION: Hindhusthan transformers, Thirumazhisai

S.NO	NAME	YEAR	SECTION
1.	Mr.Akash.S	III	A

DATE: 11.06.2018-15.06.2018

LOCATION: NSIC, Chennai

S.NO	NAME	YEAR	SECTION
1.	Ms.Aishvarya.R	III	A

DATE: 07.06.2018-14.06.2018

LOCATION: Tapco Pneumatics Pvt Ltd, Chennai

S.NO	NAME	YEAR	SECTION
1.	Ms.Gayathri.A	III	A

“Only a life lived for others is a life worthwhile.”

-Albert Einstein

DATE: 18.06.2018-22.06.2018

LOCATION: NSIC, Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Ajith Kumar.B	III	A
2.	Mr.Ashwin Nagapan.V	III	A

DATE: 18.06.2018-22.06.2018

LOCATION: BSNL, Ekkaduhangal

S.NO	NAME	YEAR	SECTION
1.	Ms.Hareeni.D	III	A

DATE: 04.06.2018-08.06.2018

LOCATION: Uniq Technologies, Chennai

S.NO	NAME	YEAR	SECTION
1.	Ms.Nivetha.S	III	B
2.	Mr.Pranav Dev.K.R	III	B
3.	Mr.Mugilan.K	III	B
4.	Ms.Madhumitha.K	III	B
5.	Ms.Nivetha.T	III	B

“You can't cross the sea merely by standing and staring at the water. “

-Rabindranath

Tagore

DATE: 11.06.2018-15.06.2018

LOCATION: NSIC, Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Manojkiran	III	B
2.	Mr.Rohith Sai	III	B

DATE: 06.06.2018-11.06.2018

LOCATION: Uniq Technologies, Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Rufus.M.G	III	B
2.	Mr.Rohith.N.T	III	B
3.	Ms.Madhushalini.M	III	B

DATE: 07.06.2018-13.06.2018

LOCATION: Tapco pneumatics Pvt Ltd, Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Lokesh Kanna.M	III	B

DATE: 03.06.2018-07.06.2018

LOCATION: Uniq Technologies, Chennai

S.NO	NAME	YEAR	SECTION
1.	Ms.Priyadarshini.V	III	B

“People who are crazy enough to think they can change the world are the ones who do”

- Rob Siltanen

DATE: 03.06.2018-21.06.2018

LOCATION: Precision informatics ,Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Prashanth.S	III	B

DATE: 14.06.2018-19.06.2018

LOCATION: KaaShiv infotech,Anna nagar

S.NO	NAME	YEAR	SECTION
1.	Mr.Sibi Sagar	III	C
2.	Mr. Vishal.E	III	C
3.	Mr.Vignesh Vijayaraghavan	III	C

DATE: 18.06.2018-22.06.2018

LOCATION: Pantech group of companies,Chennai

S.NO	NAME	YEAR	SECTION
1.	Ms.Sowmya.A	III	C
2.	Ms.Tamilmozhi	III	C

“Creativity is

intelligence having
fun”

-Albert Einstein

DATE: 19.06.2018-22.06.2018

LOCATION: Titan Engineering and Automation Ltd,Hosur

S.NO	NAME	YEAR	SECTION
1.	Mr.Ashwin Srinivas	IV	A

DATE: 01.06.2018-24.06.2018

LOCATION: CTC,Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Narayanan.R	IV	B

DATE: 12.04.2018-30.06.2018

LOCATION: Webboombaa Digital Company,Pallavaram

S.NO	NAME	YEAR	SECTION
1.	Ms.Mrithika	IV	B

DATE: 18.06.2018-17.07.2018

LOCATION: Bhabha atomic research center,Chennai

S.NO	NAME	YEAR	SECTION
1.	Mr.Srikrishnan	IV	C
2.	Mr.Somasundaram	IV	C
3.	Mr.Sai Krishnan	IV	C
4.	Mr.Sreekrishnan	IV	C
5	Mr.Shreyans Rohan	IV	C

“To see what is right
and not do it a lack of
courage”

-Confucious

STUDENT'S CORNER

PENCIL SKETCH

DONE BY: Mr.Drona Varun, ECE-III-A



The art challenges
the technology, and
the technology
inspires the art.

- John Lasseter



Reach Us

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