

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 new innovation is the new semiconductor material, “**defect-free boron arsenide**”, that is more effective at drawing and dissipating waste heat than any other known semiconductors. This could revolutionize thermal management for computer processors and other electronics. Technologies of the like pique the curiosity and interest of students and help recognize how electronics drives innovation.

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

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ECE department

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- Mr.Roshan V III B
- Ms.Sanjana B III C
- Mr.Surya V R 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.



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

-Hellen Keller

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



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

-George

Whitefield

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.



“We aim above
the mark to hit the
mark”

-Ralph Waldo
Emerson



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

“ Keep your eyes on
the stars, and your
feet on the ground. ”
– Theodore
Roosevelt

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 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.

“Be so good they can’t ignore you.”

– Steve Martin

FACULTY ACHIEVEMENTS

Mrs. Jesvin Veancy had defended her Ph.D viva -voce held on 03.07.2018 for the award of Ph.D by Anna University.



*“Failure will
never overtake
me if my
determination
to succeed is
strong enough.”*

-OG MANDINO

Dr.B. Jesvin Veancy



Title:

“INTERFERENCE MITIGATION TECHNIQUES FOR OFDM
BASED BROADBAND WIRELESS NETWORKS ”

Guide:

Dr.P.Yogesh, Associate Professor, Department of
Information Science and Technology, Anna University,
Guindy, Chennai.

Internal Examiner:

Dr. A.Kandasamy, Professor, Department of
Mathematical and Computational Sciences, National
Institute of technology, Surathkal, Mangaluru, Karnataka.

External Examiner:

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

“We generate
fears while we
s i t . We
overcome them
by action .”

-Dr.Henry Link

EVENTS ATTENDED BY FACULTY

Mr. Praveen Kumar, Assistant professor, ECE

Department, have attended the Faculty development training program on “**Optical Communication and networks**”, from 11.06.2018-18.06.2018, held at the University College of Engineering, Anna University, Ramanathapuram.



*“Good, better, best.
Never let it rest. ’*

*Till your good is
better and your
better is best .”*

-St.Jerome

WORKSHOP

Mrs.R.Hema, Assistant Professor, ECE Department have attended a DRDO sponsored national level workshop on **“Underwater optical communication and modeling of photonic and photovoltaic devices”**. It was organized by the SRM institute of science and technology from 27.07.2018 –28.07.2018.

*“Good, better, best.
Never let it rest. ’*

*Till your good is
better and your
better is best .”*

-St.Jerome

INDUSTRIAL VISITS

NATIONAL ATMOSPHERIC RESEARCH LABORATORY (NARL)

The department of ECE had organized a one day Industrial visit for the students of III year ECE “A” section to the **National Atmospheric Research Laboratory, Gadanki, Chittor** on 20.07.2018. The NARL is an Autonomous Research Laboratory which is fully funded by the Department of Space, Government of India for carrying out **Fundamental and Applied Research in Atmospheric and Space Sciences**. The students visited various sectors like **MST RADAR, ICON tower, LIDAR, Rayleigh/ Mie LIDAR**. The technical information provided by the NARL team was informative and helped the students to upgrade their knowledge in the field of RADAR technology.

*“Success’ is when
your ‘Signature
changes to an
‘Autograph’.”*

-A P J Abdul Kalam

INDUSTRIAL VISIT TO NATIONAL ATMOSPHERIC RESEARCH LABORATORY (NARL)

III ECE A SECTION



s.com

*“Miles to go before
I sleep”*

-Robert Frost

VI MICROSYSTEMS Pvt Ltd

The department of ECE organized a one day Industrial visit for III year ECE 'B' section and III year ECE 'C' section on 14.07.2018 and 28.07.2018 respectively to **VI Microsystems Pvt Ltd**. The company was established with a prime motto to “Design and Develop the Hardware and Software products”. The company is headed by Vijaya Babu C, an Educationalist and Former Scientist from Government of India, with the enormous experience gained in Research and Development. The students were briefed on the design, assembling and testing of PCB.

*“Yours is the Earth
and everything
that's in it”
- Rudyard Kipling*

INDUSTRIAL VISIT TO VI MICROSYSTEMS Pvt Ltd

III ECE B and III ECE C SECTION



“With self-discipline
anything is possible”
-Theodore Roosevelt

INTEGRAL COACH FACTORY [ICF]

The department of ECE organized a one day Industrial visit to the **Integral Coach Factory** on 03.08.2018 for the students of II year ECE.



*"No legacy is so rich
as honesty"*
- William
Shakespeare

INAUGURATION OF SECE AND IETE

The department of Electronics and Communication Engineering had inaugurated the Society of Electronics and Communication Engineers (SECE) along with the Institution of Electronics and Telecommunication Engineers (IETE) on 10.07.2018 at the TRP auditorium, Easwari Engineering College.

Mr.Allwinson Paul.G, Director and Scientist at the Defense Research and Development Organization was the **Chief Guest** and **Dr. Ganapathy Suresh**, Faculty of Marine Engineering course, Hindustan Institute of Maritime University was the **Guests of Honour**, who presided over the function.

The SECE and IETE's Student Forum, have been very successful in organizing and conducting innumerable events like Workshops, Competitions, Guest Lectures, Project Expo, Conferences, etc.,.

“Change your thoughts and you change the world”

-Norman Vincent Peale

INTRODUCTION OF OFFICE BEARERS

Mr.B.Arivuselvam, Assistant Professor/ECE, Department SECE Co-ordinator, introduced the office bearers for the academic year 2018-2019.

The office comprises of

Mr.Kumaravel	President
Mr.Sailesh Kumar	Vice President
Mr.V.Ashwin Srinivas	Secretary
Ms.S.Dharsheini	Joint Secretary
Mr.Surya.V.R	Treasurer
Ms.Srilakshmi Manoj	SRO Head
Mr.R.Deepak	SRO
Mr.S.Praveen	SRO
Mr.S.Ramesh	SRO
Mr.R.Akash	SRO
Mr.U.Kishanth	SRO
Mr.A.V.Sanjay	SRO
Ms.V.Aparna	SRO
Mr.Adityaa.V	SRO
Ms.S.Kirthika	SRO
Mr.T.Parthiban	SRO
Ms.Subha Lakshmi	SRO
Ms.V.A.Thenn Arasu	SRO

“Believe you can
and you’re halfway
there”

• Theodore
Roosevelt

INAUGURATION OF SECE AND IETE



“We know what we
are but not what
we may be”

-William

Shakespeare

INTRODUCTION OF OFFICE BEARERS [IETE]

Dr. D. Jessintha Jebakumari, Associate Professor, IETE Co-ordinator, ECE Department introduced the office bearers for the Academic year 2018-19.

OFFICE BEARERS (IETE):

Mr.R.Thirumalaiyarun	President
Ms.N.Tharani	Secretary
Mr.S.V.Thiyakaraj	SRO Head
Ms.S.Swetha	Treasurer
Ms.P.Aishwaryalakshmi	Student Ambassador
Ms.Haripriya.A	Editor
Ms.R.Meghna	Event Manager
Ms.P.A.Swetha	Resource Manager
M.K.Mugilan	Vice President
Mr.N.T.Rohith	Joint Secretary
Mr.R.Naresh	Finance Head
Ms.Soundarya	Organizing Head
Mr.Gokul.B	SRO
Mr.M.Magesh	SRO
Mr.Tarun Abhaye	SRO

"I believe that
tomorrow is
another day and
I believe in miracles"
- Audrey Hepburn

GUEST LECTURE

GUEST SPEAKER: **Dr.Ganapathy Suresh,**
Faculty of Marine Engineering, Hindustan
Institute of Maritime University.

The guest speaker, Mr. Ganapathy Suresh began his guest lecture by stating examples of vegetables and eggs in comparison with a student from his graduation until he gets settled as an employee. He was a person of practical knowledge and wanted the students to analyze every domain of invention with the thirst of knowledge. The session was highly interactive and enthusiastic .He made the students recollect the required basic skill and knowledge to apply on a daily basis. He made the session more interactive by sharing his very own experience in the field of LPG Tanker Security and Marine Electronics Engineering. He explained in detail about the life of a Marine Electronics Engineer with fascinating facts about the working of cargo, passenger and war ships.

“If opportunity
doesn’t knock,
build a door”
-Milton Berle

To add to the enthusiasm he explained to the students the pay slip and guided them with the methodology of preparation for various occupations in emerging fields of science and technology. His motivating lecture included the story of Neolian and concluded with the **CAR [Comprehensive, Adequate, Representative]** Principle .On the whole, the session had different phases. He made the students connect practicality with engineering. It also focused on building application and many other inspiring new ideas. The guest lecture was concluded with **“Vote of Thanks”** by **Ms.T.Gophika**, Assistant Professor of ECE department.



*“No legacy is so rich
as honesty”
- William
Shakespeare*

MEMORANDUM OF UNDERSTANDING

The Memorandum of Understanding signing ceremony was held at the TRP auditorium on Tuesday, 10.07.2018. Two of today's most leading companies, **“Signals and systems India Pvt Ltd”** and **“Sansbound solutions Pvt Ltd”**, signed the **MOU** with promising excellent opportunities for the students.



“The measure of
who we are is what
we do with what
we have”

-Vince Lombardi

WORKSHOP ATTENDED BY STUDENTS

DATE: 21.07.2018-22.07.2018

LOCATION: IITM, Research Park, Tharamani

DOMAIN: MACHINE LEARNING

S.NO	NAME	YEAR	SECTION
1.	Ms.Sanjana.B	III	C
2.	Ms.Thamil Thalir	III	C
3.	Ms.Srilakshmi Manoj	IV	C
4.	Mr.Sriram	IV	C
5.	Mr.Adethya Bhaskar	IV	A

DATE: 29.07.2018

LOCATION: Raja Annamalai Mandram, Chennai

DOMAIN: International Gaming and Security

S.NO	NAME	YEAR	SECTION
1.	Mr.Surya.V.R	III	C

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

- Robin Sharma

DATE: 07.07.2018

LOCATION: IITM, Research Park, Thaaramani

DOMAIN: IOT using Arduino

S.NO	NAME	YEAR	SECTION
1.	Mr.Lohith	II	B
2.	Ms.Namratha.K	II	B
3.	Ms.Lasya Ippagunta	II	B
4.	Mr.Manoj.S	II	B

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

-Rabindranath
Tagore

IN-PLANT TRAINING

DATE: 11.06.2018-15.06.2018

LOCATION: ISTRAC, Andaman and Nicobar Islands

S.NO	NAME	COURSE
1.	Mr.Rudhrashish Roy	M.E.Communication Systems

STUDENT'S CORNER

PENCIL SKETCH

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

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The art challenges
the technology, and
the technology
inspires the art. -
John Lasseter


POETRY

BY: Ms.Meghna Singh, ECE-II-B

The World I want to see

Lying flat on the soft grass I wonder,
Why in the world should I surrender?
Surrender to someone's greed,
To someone's lovely breed.
Why can't I see love, care and affection,
For all the old and forsaken?
Ever wondered how beautiful my earth would have
been,
If it was not for the grim faces and hearts so mean.
Ever seen a colorful flower bloom,
Ever seen love till the end of doom,
Well, that's how beautiful my earth would have been;
If it was not for morbid greed,
And that butchery sinister creed.

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

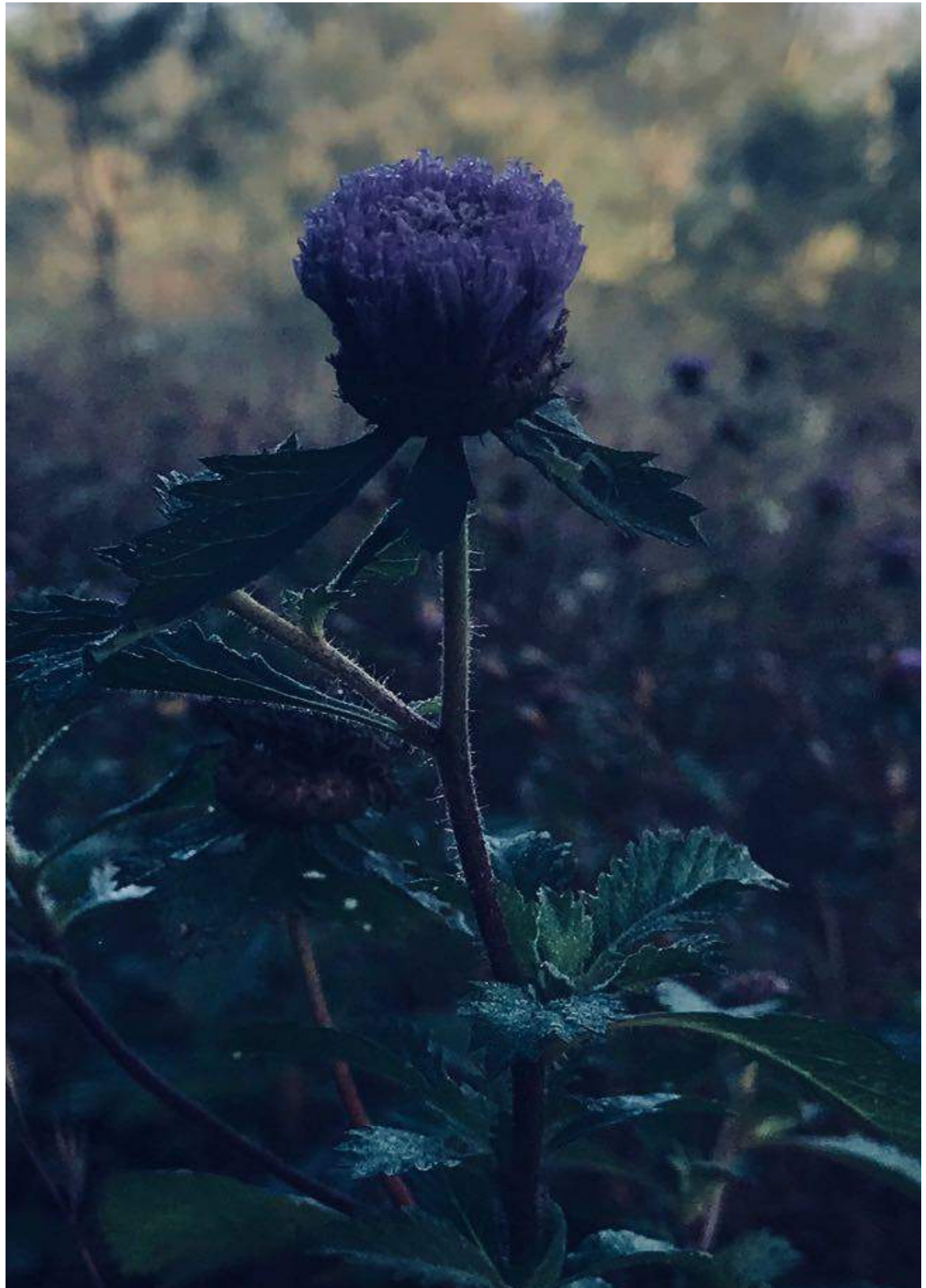


My once magnificent world needs salvation,
For if not it would sink to deterioration.
But then my old pop said once,
“Child, be the change you want to be”.
And then he was dragged down by lusty men.
For now alone I am and the forsaken.
Stooping, stumbling, falling, tantalized,
Yet trying to be tranquillized,
Thinking I am quite sturdy inside,
Because now I am steady on the hard ground,
Ready to fend my world with sound,
Ready to fend the old and the forsaken,
Who have lost love from the taken.
Ready to open the doors for all,
With equality and show that beauty lies in all.
Well, this is the life I want to lead.
For I think I have buried a seed...
In me, to grow against the tides of the sea
For the World I want to see...

Work hard in
silence, let your
success be your
noise
- *Frank Ocean*

PHOTOGRAPHY

DONE BY: Mr.Rahul.R, ECE - II-B



The more I want to
get something done
the less I call it work

- *Richard Bach*



Reach Us

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COMMUNICATION ,ENGINEERING EASWARI
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