

Dec 2021

CARE 
COLLEGE OF ENGINEERING

Department of Electronics and Communication
Engineering

The Department News letter

ECE
BUZZZ



ECE
@
CARE

EDITOR
Raja Rajreswari(IV ECE)
Member of Editorial Board
Vijei R (IV ECE)

Dec 2021 : Issue 02

VISION AND MISSION

VISION OF THE INSTITUTION

Transform lives through Education and Research

MISSION OF THE INSTITUTION

To impart quality education to students through critical thinking, creativity, leadership and the spirit of entrepreneurship

VALUES OF THE INSTITUTION

We develop in each member the ability and passion to work effectively for the betterment of humanity with cultural awareness, high ethical and moral values and a sense of social responsibility

DEPARTMENT VISION

To produce globally competent Electronics and Communication Engineers.

DEPARTMENT MISSION

M1: To Impart Value-based Technical Education with a state of art technologies to meet industry standards.

M2: To foster critical thinking and creativity through research and experimentation.

M3: To prepare our students to be a lifetime professional with Creativity and Leadership.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1 – Shall pursue higher education and research, or have a successful career in industries or as entrepreneurs.

PEO 2 – Shall have the ability and attitude to adapt to emerging technological changes.

PEO 3 – Shall exhibit leadership abilities, professional ethics, communication skills, interpersonal skills and life-long learning.

PROGRAM OUTCOMES (POs)

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, review research reaching literature, and analyze complex engineering problems 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 appropriate that meet the specified needs with consideration 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.

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 multidisciplinary 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.

PROGRAM SPECIFIC OBJECTIVE (PSOs)

Students of the Electronics and Communication Engineering Program

PSO 1 - Shall have Potential to analyze, design, synthesize and provide technical solutions in the field of VLSI, Embedded Systems, Communication, Networking and Real Time Processing.

PSO 2 - Shall exhibit leadership skills and pursue entrepreneurship and contribute in the field of Electronics and Communication Engineering.

STUDENTS ACHIEVEMENTS

S.SURIYA, ECSA PRESIDENT – IV ECE

PLACEMENTS

- Got Best Outgoing Student Award for the academic year 2021-2022..
- Got placed in TCS as Associate Systems Engineer with CTC 3.36 LPA & Wipro as Product Engineer with CTC 3.5 LPA .

Attended online webinars in the field of Python programming, Machine learning, Data Science, Artificial Intelligence, Deep Learning & Internet of Things from various companies like Pantech Pvt. Ltd., IETE Mumbai, IRIS Solutions etc...

Some of them are

- 5G Communications
- Understanding AI tools, platforms & services
- Big Data & Data Science
- Concepts in Machine Learning using Python
- Data mining learning patterns & process analysis
- Deep Vision for Autonomous self driving cars
- Design of Intelligent Chatbots ML Approach
- Data Science using Python
- Gesture Recognition
- ML for Computer Vision Industrial Applications
- Brain Controlled Robot Design
- Raspberry Pi with OpenCV

Got Best Outgoing Student Award for the academic year 2021-2022..

Got placed in TCS as Associate Systems Engineer with CTC 3.36 LPA & Wipro as Product Engineer with CTC 3.5 LPA .

STUDENTS

ACHIEVEMENTS

S.SURIYA, ECSA PRESIDENT – IV ECE

Completed various Coursera guided projects such as

- Analyse Box Office Data with Plotly & Python
- Fake News Detection with Machine Learning
- Image Compression with K-Means Clustering
- NLP – Twitter Sentiment Analysis
- Support Vector Machines with scikit-learn
- Video Basics with OpenCV and Python etc ...

6. Completed Internship in Vaayusastra Aerospace Pvt. Ltd. based on the project titled “IOT Application in Satellite Communication & Aircraft Communication, Aircraft Safety & ADS-B”

7. Published a paper titled “Smart Energy Meter using IOT” in the 4th International Conference on Computer Networks, Big Data and IOT (ICCBI – 2021)

8. Participated in SIH Internal Hackathon 2022 by being the Team Leader with the Team named “Target Found 8107”.

9. Participated in “IIC Design Thinking Workshop” at Biz Valt Conference Hall, CARE Business School, Trichy.

K.SHIFANA BEGUM – IV ECE

1. Completed Internship in Vaayusastra Aerospace Pvt. Ltd. based on the project titled “IOT Application in Satellite Communication & Aircraft Communication, Aircraft Safety & ADS-B”

2. Published a paper titled “Smart Energy Meter using IOT” in the 4th International Conference on Computer Networks, Big Data and IOT (ICCBI – 2021)..

STUDENTS ACHIEVEMENTS

K.SHIFANA BEGUM – IV ECE

3. Participated in SIH Internal Hackathon 2022 by being the Team Leader with the Team named “Team ICONIC” & got selected to SIH Finals 2022.

4. Participated in “IIC Design Thinking Workshop” at Biz Valt Conference Hall, CARE Business School, Trichy.

R.BHAKKIYA – IV ECE

1. Completed Internship in Vaayusastra Aerospace Pvt. Ltd. based on the project titled “IOT Application in Satellite Communication & Aircraft Communication, Aircraft Safety & ADS-B” .

2. Got selected in Infosys as System Engineer with CTC 3.6 LPA and Intellipaath as Business Development Trainee with CTC 9 LPA.

3. Written 8th semester papers in the previous semesters (6,7) based on CBCS Pattern

P.ADITHYA – III ECE

1. Attended 5 Days Workshop on “Image Processing using MATLAB” by Pantech Prolabs Pvt. Ltd.

2. Attended One Day Workshop on “Android” & done a project titled “Blind Stick using Arduino IDE with Ultrasonic Sensor & Buzzer” by Code Bind Technologies, Chennai.

3. Attended National Level Workshop on “Artificial Intelligence” by Pantech E-bytes.

STUDENTS ACHIEVEMENTS

S. RAJARAJESWARI – III ECE

Attended Two Weeks Internship program titled “TMIS08 – Kalam Internship Program – 08th Edition” by Tesla Minds, Chennai.

S. GUNASEKARAN – III ECE

Attended Four Days Online Short Term Training Programme (STTP) on “Recent Trends in Antenna & Microwave Technology” organized by IEEE Students Branch, Madras Section & Tesla Minds, Chennai.

M.DINESH KUMAR – II ECE

1. Won First Prize in “Dance” Event in MAVERICK 2K22 organized by the Department of MBA, K.S.R College of Technology, Namakkal.
2. Participated in “Group Dance” in the Inter College Management & Cultural Meet Event “M.A.M B-FEST 2022” organized by M.A.M Business School, Trichy.
3. Participated in “Battle Edition & Solo Dance Competition” in the Inter Collegiate Meet Asthra organized by G.R. Damodaran Academy of Management, Coimbatore.
4. Participated in “Adaptune” event in PRANAYA 2K22 organized by Karpagam Academy of Higher Education, Coimbatore.
5. Participated in “Solo Dance” event in CONFLUENZE 2022 organized by Nehru Institute of Information Technology & Management, Coimbatore.

STUDENTS ACHIEVEMENTS

R. GOKUL – II ECE

1. Participated in SIH Internal Hackathon 2022 with the Team named “Team ICONIC” & got selected to SIH Finals 2022.
2. Participated in “IIC Design Thinking Workshop” at Biz Valt Conference Hall, CARE Business School, Trichy

KANCHULOKESH LOKESH – II ECE

Participated in SIH Internal Hackathon 2022 with the Team named “Team ICONIC” & got selected to SIH Finals 2022.

K. BALAMURUGAN – II ECE

1. Participated in SIH Internal Hackathon 2022 with the Team named “Target Found 8107” .
2. Participated in “IIC Design Thinking Workshop” at Biz Valt Conference Hall, CARE Business School, Trichy.

S. KRISHNAMOORTHY – II ECE

1. Participated in SIH Internal Hackathon 2022 with the Team named “Target Found 8107” .
2. Participated in “IIC Design Thinking Workshop” at Biz Valt Conference Hall, CARE Business School, Trichy.

GADIREDDY SAMEERA – II ECE

Participated in “IIC Design Thinking Workshop” at Biz Valt Conference Hall, CARE Business School, Trichy.

R. JANCY RANI – II ECE

Participated in “IIC Design Thinking Workshop” at Biz Valt Conference Hall, CARE Business School, Trichy.

FINAL YEAR ECE TOPPERS

R.BHAKKIYA



K.SHIFANA BEGUM

THIRD YEAR ECE TOPPERS

S.RAJARAJESWARI



K.NISHANTHAN

SECOND YEAR ECE TOPPERS



KANCHU LOKESH

AFROSE JAMILLA M



Best Department of the Year 2021-2022



Best Faculty of the Year 2021-2022



Best Out Going Student of the year 2021-2022



S.SURIYA

DEPARTMENT OF ECE

Beautiful Moment with our final year ECE outing students



MOU WITH VAAYUSASTRA AEROSPACE PRIVATE LIMITED - A MARKABLE JOURNEY



To provide industrial exposure to the students and faculty, the Memorandum of Understanding (MoU) digital signing ceremony was held on 2nd Friday of July month, 2021 between Vaayusastra Aerospace Pvt Ltd, IIT Madras Research Park, Chennai and CARE College of Engineering, Tiruchirappalli.

The meeting started by 2.00 pm with an welcome address of opening remarks given by, Jagadeesh Kanna G, Founder / CEO, Vaayusastra Aerospace Pvt Ltd, IIT Madras Research Park, Chennai.

He explained about an Innovative Concept of Human Engineering services started with a motto of developing young talents through Aero Modelling workshops and science workshops. He stated the needs of the Startup Incubation, Product development, Technical research and Research funding on advanced flying methods.

Dr.S.Shanthi, Principal, CARE College of Engineering delivered the address regarding the MoU benefits between the two parties and emerging trends that leads the industry collaboration with our institution to build the engineers to the next level.

ENGINEER'S DAY CELEBRATION



CARE COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

Cordially invites to the guest lecture on

DISCRETE TIME SIGNAL PROCESSING

RESOURCE PERSON:
Dr. K. MUTHULAKSHMI,
Assistant Professor/ECE,
Dr. NGP Institute of Technology,
Coimbatore.




SEP 17, 2021 | 3.00 PM | GOOGLE MEET


Welcome you all!

Department of Electronics and Communication Engineering conducted a Guest Lecture on "Discrete time Signal Processing" for the ECE students on 17th September, 2021. The webinar was delivered by Dr. Muthulakshmi, Professor, Dr.NGP Institute of Technology, Coimbatore

**GUEST LECTURE ON “DISCRETE TIME SIGNAL
PROCESSING”**


CARE 
COLLEGE OF ENGINEERING
**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

Cordially invites you for
**Engineer's day
Celebration**



GUEST OF HONOUR
MR.V.VIJAYAKUMAR
ASST. VICE PRESIDENT
SALES AND MARKETING
QMAX GROUP

SEPTEMBER 18, 2021
10 AM

 **Via Google Meet**

in the esteemed presence of
Shri. B. Prative Chend **Dr. S. Shanthi**
CEO **Principal**

Department of Electronics and Communication Engineering organizes “Engineer’s Day Celebration” on 18 September 2021.

CONSULTANCY WORK – PATIENT DATABASE MANAGEMENT SYSTEM



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Electronics & Communication
Engineering



CONSULTANCY WORK

FIRST REVIEW MEETING

PATIENT'S DATABASE MANAGEMENT SYSTEM



DR. JAIKUMAR,
MD(PSYCHIATRY),
ASSOCIATE PROFESSOR,
DEPT OF PSYCHIATRY,
PUDUKOTTAI MEDICAL COLLEGE,
TAMIL NADU.

PLATFORM : GOOGLE MEET

DATE : 25 SEP, 2021

TIME : 6.00 PM ONWARDS

Department of Electronics and Communication Engineering doing Consultancy work under Software Application Development for Patient Database Management System. The 1st review meeting was held on 25th September, 2021. Dr. Jaikumar, MD(Phychiatry), Associate Professor, Department of Phychiatry, Pudukottai Medical College, Tamilnadu and Vigneshwaran, Expert of Web development attended this meeting. They gave some suggestions for this project.

INTERDEPARTMENTAL PROJECT EXPO -2021



TECHNO FRENZY V.40

CARE COLLEGE OF ENGINEERING

ECSA
Electronics And Communication Students Association

Department of Electronics & Communication Engineering
Welcomes you all

ECSA'S EVENT

TECHNO FRENZY V4.0

EVENTS TO OCCUR

**PAPER PRESENTATION
MIXTURE CLUSTER
TRY PANNU MAKE FUNNU**


Wear red and white and show off your Arcadia Knights pride!

**OCTOBER 9, 2021
GOOGLE MEET PLATFORM
2.30 TO 4.00 PM**

On behalf of the Electronics and Communication Students Association (ECSA), Final year Students Conducted TECHNO FRENZY V.40, an Inter department Technical and non- Technical Event for the second & Third year students on October 9th , 2021 @ 2.30 PM. Students actively participated

FDP ON "RECENT ADVANCEMENTS IN PHOTONICS AND IT'S APPLICATIONS

A Five Day Faculty Development Programme (FDP)
On
**Recent Advancements in Photonics and Its
Applications**
(Virtual mode)



September 27th - October 1st, 2021
Timing: 06.00 PM to 08.00 PM
In Association
With
IEEE CARE STUDENT BRANCH - MADRAS SECTION
&
IEEE PHOTONICS SOCIETY - BANGALORE SECTION

On behalf of the Electronics and Communication Students Association (ECSA), Final year Students Conducted TECHNO FRENZY V.40, an Inter department Technical and non- Technical Event for the second & Third year students on October 9th , 2021 @ 2.30 PM. Students actively participated

INDUSTRIAL VISIT TO SIEMENS CENTRE OF EXCELLENCE IN MANUFACTURING



Siemens Centre of Excellence in Manufacturing is an interdisciplinary, industry backed centre focused on developing "Skill Excellence" for Academia and Industry. To provide industrial exposure to ECE Faculty, One day industrial visit to Siemens Centre of Excellence in NIT, Trichy on 13.10.2021.

CARE 
COLLEGE OF ENGINEERING
 (Approved by AICTE and Affiliated to Anna University, Chennai)
 27, Thayanur, Trichy – 620009

Department of Electronics and Communication Engineering
Webinar Series '21

Date	Resource person	Title
26th October 2021	 Mr. Rajeswaran, Embedded System Engineer , Alley tech , Salem	Embedded systems
27th October 2021	 Mr.A.Anish Kumar, Business Development Manager, Byju's -The learning App, Chennai	Alumni Meet
29th October 2021	 Dr. Radhika Baskar Associate Professor/ECE, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai	Adhoc and Wireless Sensor Networks
30th October 2021	 Dr.K.Pandiaraj Assistant Professor/ ECE Kalasalingam Academy of Research and Education, Krishnankoil, Srivilliputtur	Digital Electronics
2nd November 2021	 Ms.C.Swedheetha Assistant Professor/ECE Vaigai College of Engineering, Madurai	Antenna and Microwave Engineering
11th November 2021	 Ms. Roja Vadlamudi , PM RF Scholar, NIT Trichy	Impedance using Discrete Components
12th November 2021	 Mr.Manikandan P. Assistant Professor/ECE Kalasalingam Academy of Research and Education, Krishnankoil, Srivilliputtur	Power Supplies and Electronic Device and Testing

ECE department in association with IEEE Student Branch- Madras Section organized webinar series from 26.10.2021 to 12.11.2021. The primary objective of this webinar is to help the students improve their learning in a more interactive and topic specific way.

In this webinar series, experts from industries and institutions such as Rajeswaran, from Alley tech, Anish Kumar from Byju's -The learning App, Dr. Radhika Bhaskar from Saveetha School of Engineering, Chennai, Ms. Roja Vadlamudi, PMRF from NIT, Trichy, etc have contributed with their effective lectures.

A Four Day Workshop on “Antenna Design for Military, Biomedical and Wireless Applications (Virtual mode)”



Department of Electronics and Communication Engineering, CARE College of Engineering in Association with IEEE CARE Student Branch – Madras Section organizing A Four Day Workshop on “Antenna Design for Military, Biomedical and Wireless Applications (Virtual mode)” during December 20th – December 23rd, 2021.

The workshop provides hands-on experience in using ANSYS HFSS and CST simulator tools, leading to the design of patch antennas and other types of antennas. 4-day programme will enable the participants to understand the simulation principles and optimization procedures in the identified topics.

UPCOMING EVENTS

DEPARTMENT PLAN- ODD SEM - 2022-2023

Department of ECE Activity Plan - Odd sem - 2022-2023

S.No	Event	Program	Tentative Date
1	Newsletter		July 2nd week
2	Contest for School Students/ Technical	Out Reach Program	July 3rd week
3	Summer workshop	Co- Curricular Activity	July 4th week
4	STTP on Antenna design	Co- Curricular Activity	August 1 st week
5	Orientation Program for II Year ECE	Co- Curricular Activity	August 2nd week
6	Alumni Interaction		August 2nd week
7	Inter departmental Activity- TechnoFrenzy(Technical Events for Department Students)	Co- Curricular Activity	August 3rd week
8	Paper Presentation for department students	Co- Curricular Activity	August 4th week
9	Inter departmental Cultural Activity	Extra Curricular Activity	September 1st week
10	Industrial visit	Co- Curricular Activity	September 3rd week
11	Alumni Meet	Alumni guest lecture	September 4th week
12	MOU	IIPC	October 1st week
13	Elite student Major Project	Co- Curricular Activity	October 2nd week
14	Mini Project	Co- Curricular Activity	October 3rd week
15	FDP	FDP	Nov 4th week
16	VAC	Co- Curricular Activity	Semester break
17	Guest lecture series	Guest lecture(2 Per Subjects)	Two Per Subject
18	Gate/Higher studies/Government exam Coachings/ Technical	Extra Curricular Activity	All Saturdays