



**CARE**   
**COLLEGE OF ENGINEERING**  
(An Autonomous Institution)



# NEWS LETTER



**EDITION**  
DEC 2025  
ISSUE 01

# ECE BUZZ

**EDITORS**  
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# 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

## VISION OF THE DEPARTMENT

To produce globally competent Electronics and Communication Engineers

## MISSION OF THE DEPARTMENT

**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 OBJECTIVE (PEOs)**

PEO 1 - Graduates shall pursue higher education and research, or have a successful career in industries or as entrepreneurs.

PEO 2 - Graduates shall have the ability and attitude to adapt to emerging technological changes

PEO 3 - Graduates shall exhibit leadership abilities, professional ethics, communication skills, interpersonal skills and life-long learning

## **KNOWLEDGE AND ATTITUDE PROFILE & PROGRAM OUTCOMES**

### **Knowledge and Attitude Profile (WK)**

**WK1 (Natural Science):** A systematic, theory-based understanding of the natural sciences Applicable to the discipline and awareness of relevant social sciences.

**WK2 (Mathematics and Modeling):** Conceptually-based mathematics, numerical analysis, data analysis, statistics and formal aspects of computer and information science to support detailed analysis and modeling applicable to the discipline.

**WK3 (Engineering Fundamentals):** A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.

**WK4 (Engineering Specialization):** Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice are as in the Engineering discipline; much is at the forefront of the discipline.

**WK5 (Environmental impact on design and practice):** Knowledge, including efficient Resource use, environmental impacts, whole-life cost, reuse of resources, net zero carbon, and similar concepts, that supports engineering design and operations in a practice area

**WK6 (Newer Practical Knowledge):** Knowledge of engineering practice (technology) in the Practice areas in the engineering discipline.

**WK7 (Engineer role and responsibility in Society):** Knowledge of the role of engineering in Society and identified issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and sustainable development.

**WK8 (Critical Thinking and Creativity):** Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues

**WK9 (Ethics and Diversity):** Ethics, inclusive behavior and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding and respect, and of inclusive attitudes.

## **PROGRAM OUTCOMES**

**PO1 Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems

**PO2 Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for Sustainable development.(WK1toWK4)

**PO3 Design/Development of Solutions:** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, Society and environment as required.(WK5)

**PO4 Conduct Investigations of Complex Problems:** Conduct investigations of complex Engineering problems using research-based knowledge including design of experiments, modeling, analysis & interpretation of data to provide valid conclusions.(WK8)

**PO5 Engineering Tool Usage:** Create, select and apply appropriate techniques, resources And modern engineering CIT tools, including prediction and modeling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

**PO6 The Engineer and the World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to Economy , health, safety, legal framework, culture and environment.(WK1,WK5,andWK7).

**PO7 Ethics:** Apply ethical principles and commit to professional ethics, human values, Diversity and inclusion; adhere to national & international laws.(WK9)

**PO8 Individual and Collaborative Teamwork:** Function effectively as an individual, and as a member or leader in diverse / multi-disciplinary teams.

**PO9 Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

**PO10 Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in Multidisciplinary environments.

**PO11 Life-Long Learning:** Recognize the need for, and have the preparation and ability for

- (i) Independent and life-long learning
- (ii) Adaptability to new and emerging technologies and
- (iii) Critical thinking in the broadest context of technological change (WK8).

## **PROGRAM SPECIFIC OUTCOMES (PSOs)**

**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

# PRINCIPAL'S MESSAGE



**Dr. S. Shanthi M.E ,  
Ph.D**

**Success begins  
when we bravely  
pursue our dreams**

**It is with great pleasure that we welcome another promising semester at CARE College of Engineering. Each new academic term presents an opportunity to refresh our goals, broaden our perspectives, and recommit ourselves to excellence in education, research, and personal growth.**

**This semester offers a valuable platform to expand knowledge, explore innovative ideas, and strengthen collaboration among students, faculty, and staff. A wide range of activities—including guest lectures, workshops, departmental programs, and student-driven initiatives—have been planned to encourage active participation and experiential learning**

# HOD'S MESSAGE

**Dr.J. Jeyarani M.E ,  
Ph.D**

**Dream big,  
work hard, and  
make your mark in  
the world of ECE**



**Every step you take in your academic journey is building the foundation for a successful future. With enhanced learning experiences, hands-on research opportunities, and strong industry exposure, you are equipped to transform ideas into impactful innovations. Embrace every challenge as a chance to learn, grow, and discover your true potential in the ever-evolving field of electronics and communication engineering**

**Our dedicated faculty members are more than educators—they are mentors committed to your success. With their guidance and your determination, there are no limits to what you can achieve. Stay focused, stay inspired, and believe in your abilities. Together, we will continue to break barriers, set new standards, and shape the future of technology**

# FDP ON INNOVATIVE PEDAGOGICAL TECHNIQUES FOR STUDENT ENGAGEMENT



A Faculty Development Program on “Innovative Pedagogical Techniques for Student Engagement” was conducted at CARE College of Engineering on 5th July 2025. The resource persons were Dr. C. Jeyamala, Associate Professor/IT, and Dr. D. Anitha, Assistant Professor (SG)/AMCS, from Thiagarajar College of Engineering, Madurai. The session focused on effective strategies for enhancing student participation and engagement in classrooms through innovative teaching methods. Various active learning techniques, digital tools, and collaborative approaches were discussed. Faculty members actively participated and gained insights to implement in their courses.

# 16TH ANNUAL DAY



## **16th Annual Day Celebration – A Grand Success!**

**CARE College of Engineering celebrated its 16th Annual Day on 14th May 2025 at the Open Auditorium, CARE Campus.**

**We were honored by the presence of Mr. S. Ananthakrishnan, Director, CeeYes Mobility Solutions Pvt. Ltd., Tiruchirapalli, who graced the occasion as the Chief Guest and inspired our students with his insightful address. The event was filled with vibrant performances, student recognitions, and moments of pride and joy. A heartfelt thank you to all our guests, faculty, students, and staff who made the celebration memorable!**

# DESIGN THINKING FDP



## Faculty Development Program on Design Thinking – A Day of Innovation and Insight!

The session was led by our CEO, Mr. Shri B. Prative Chend, and Dr. D. Sugumar, Principal of CARE Arts and Science College. As part of the hands-on activities, participants were encouraged to deep dive into real-world challenges by engaging in conversations with people across the CARE community. This approach helped them gather meaningful insights into common issues faced within the institution, laying the foundation for empathetic and solution-driven thinking throughout the Design Thinking process.

# FACULTY DEVELOPMENT PROGRAM



**On 08.07.2025, CARE College of Engineering organized an impactful FDP covering Design Thinking in Teaching, Quality Aspects, Innovative Projects, Autonomous Examinations, Ownership, and Professionalism with Stress Management. Sessions were delivered by eminent resource persons including Dr. K. Kannan, Dean-Academics, Dr. J. Jeyarani, Dean-IQAC, Mr. S. Arun Prakash, Assistant Professor/Mechanical, Dr. R. Saravanakumar, Controller of Examinations, Dr. S. Shanthi, Principal and Mr. Charles, Head/HR. The program enhanced faculty competencies in teaching methodologies, institutional quality, project opportunities, examination reforms, leadership, and well-being. It was a day of learning, reflection, and growth for all participants.**

# FACULTY DEVELOPMENT PROGRAM



**CARE College of Engineering organized a dedicated Faculty Development Program on 09.07.2025 to enhance innovative teaching practices and professional skills among faculty members. The FDP began with an insightful session on the Taxonomy of Learning by Dr. K. Kannan, emphasizing structured learning outcomes for effective curriculum delivery. Faculty then engaged in a fun-filled Crossword Puzzle activity, fostering collaboration and refreshing their minds.**

# INSPIRING YOUNG INNOVATORS



Today, the students of CARE GROUP OF INSTITUTIONS had the privilege of engaging in an insightful and interactive session with Mr. Nagaraja (Naga) Prakasam – a well-known angel investor, startup mentor, and a firm believer in the power of grassroots innovation. The theme of the session revolved around a simple yet impactful idea: “Every problem is an opportunity.” Mr. Prakasam started by asking students about the everyday problems they face in Trichy — from traffic congestion and waste disposal to limited employment opportunities. He encouraged students to look at these not as limitations, but as potential problem statements for future startups.



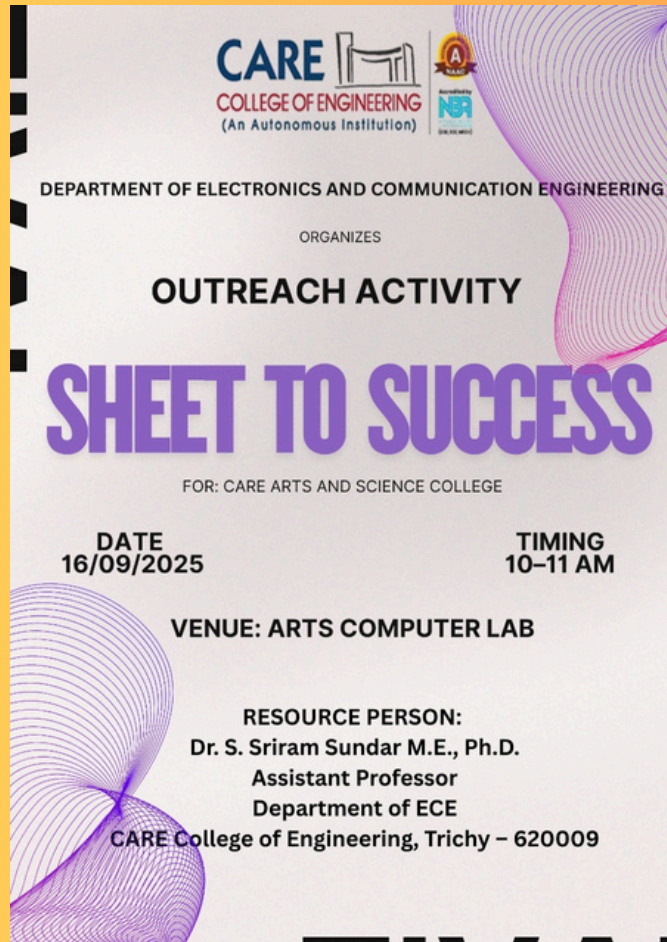
# IMAGE PROCESSING WEBINAR

The poster is for a webinar on Image Processing. It features a dark teal background with white and light blue text and graphics. At the top left, there are logos for CARE College of Engineering (An Autonomous Institution) and NRI. At the top right, there is a logo for Pantech e Learning with the tagline 'DIGITAL LEARNING SIMPLIFIED'. The main text reads 'ONE DAY WEBINAR ON IMAGE PROCESSING' followed by the date '21st AUGUST, 2025' and the time '3.30PM-5.00PM'. A quote states: 'Image Processing in AI enables machines to analyze, enhance, and interpret visual data for tasks like recognition, detection, and classification.' A 'Join Now' button with a right-pointing arrow is located below the quote. On the right side, there is a graphic with a hand pointing at a screen displaying 'SAP' and 'OPTION 01' and 'OPTION 03'. At the bottom, there are contact details: a phone number '8925533488', an email 'events@pantechlearning.com', and a social media handle 'pantechlearning'.

The webinar on “Image processing in AI” was organized for III year ECE Students in association with pantench E learning on 21.8.2025 from 3.30 p.m to 5.00 p.m through a youtube live session. The webinar aims to introduce and explore the applications of Image Processing in Artificial Intelligence. The session focuses on how Image processing in AI can:

- \* Analyze visual data
  - \* Enhance image quality
  - \* Interpret patterns for recognition
  - \* Perform detection and classification tasks
- The outcome of the webinar allows the students to broaden their knowledge base, improve technical competency, and prepare them for future careers in AI and image processing domains.

# OUTREACH ACTIVITY



The Department of Electronics and Communication Engineering of CARE College of Engineering organized an Outreach Activity titled "Sheet to Success" on September 16, 2025, from 10:00 AM to 11:00 AM at the Arts Computer Lab, CARE Arts and Science College. The session was conducted by Dr. S. Sriram Sundar, M.E., Ph.D., Assistant Professor, Department of ECE, CARE College of Engineering, Trichy. The objective of the outreach program was to educate and empower students from CARE Arts and Science College with essential spreadsheet and data management skills that are vital for academic and professional success. The session provided hands-on training on effective use of spreadsheet tools, data organization, and analysis techniques, highlighting their importance in enhancing productivity and decision-making in various domains.

# ORIENTATION PROGRAMME ON “OUTCOME-BASED EDUCATION (OBE) FOR NOVICE”



**The Internal Quality Assurance Cell (IQAC) and FDP Cell of CARE College of Engineering (An Autonomous Institution) organized an Orientation Programme on “Outcome-Based Education (OBE) for Novice” for the new faculty members on 20.9.2025 from 9.30 a.m to 12.30 p.m. The session was led by Dr. K. Kannan, Dean Academics, who provided valuable insights into the fundamentals, objectives, and implementation strategies of OBE to improve teaching-learning outcomes.**

**By the end of the session, the participants were expected to:**

- **Gain a clear understanding of Outcome-Based Education concepts.**
- **Learn how to frame and map Program Outcomes (POs), Course Outcomes (COs), and Program Educational Objectives (PEOs).**
- **Acquire knowledge on assessment and attainment methods in OBE.**

# THE ULTIMATE GATE CHALLENGE

**CARE** COLLEGE OF ENGINEERING  
(An Autonomous Institution)

Approved by AICTE | Affiliated to Anna University, Chennai  
Accredited by NAAC with 'A' Grade  
#27,Thayanur,Tiruchirappalli-620 009

Department of Electronics and Communication Engineering  
organises

**The Ultimate GATE Challenge**

Conquer GATE 2026!




Venue  
DSP Lab

September  
23, 2025

All are Welcome !!!

The Department of Electronics and Communication Engineering of CARE College of Engineering organized “The Ultimate GATE Challenge” on September 23, 2025, at the DSP Lab. The event witnessed enthusiastic participation from third-year ECE students, who appeared for a GATE-style mock test designed to evaluate their conceptual understanding and analytical skills in core ECE subjects.

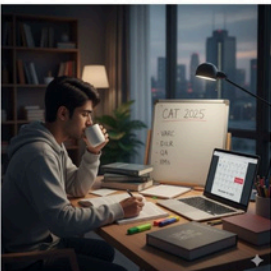
# THE ULTIMATE GATE CHALLENGE

**CARE**    
**COLLEGE OF ENGINEERING**  
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Approved by AICTE | Affiliated to Anna University, Chennai  
Accredited by NAAC with 'A' Grade  
#27,Thayanur,Tiruchirappalli-620 009

**Higher Education Cell**  
organises

## CAT Pathways



**Venue**  
**Engineering Seminar Hall**



**September**  
**26, 2025**  
@  
**3.30 P.M**

**All are Welcome !!!**

The Higher Education Cell of CARE College of Engineering (An Autonomous Institution) organized an informative session titled “CAT Pathways” on September 26, 2025, at 3:30 PM in the Engineering Seminar Hall. The session aimed to guide students aspiring to pursue management education through the Common Admission Test (CAT) and related entrance examinations. The session provided valuable insights into the structure, preparation strategies, and opportunities associated with the CAT exam. It covered essential components such as Verbal Ability and Reading Comprehension (VARC), Data Interpretation and Logical Reasoning (DILR), and Quantitative Ability (QA). The speaker highlighted the importance of time management, consistent practice, and analytical thinking in achieving a high percentile.

# SESSION ON BASICS OF GOOGLE CLOUD



The IETE Student Association organized an engaging event on 4th October 2025 from 12:00 PM to 12:30 PM, featuring both technical and non-technical sessions. The technical session, titled Basics of Google Cloud, introduced students to the fundamentals of cloud computing, including cloud storage, computing capabilities, and practical applications of Google Cloud for academic and project use. This was followed by a fun and interactive non-technical activity, Guess the Logo, where participants identified popular brand and tech company logos within a time limit, promoting quick thinking and enthusiasm. Students from the ECE department actively participated, making the event both educational and enjoyable. The session concluded with positive feedback, successfully achieving the club's goal of blending technical learning with interpersonal engagement.

# CARE TECH FEST'25



The poster features a dark blue background with light blue streaks. At the top, it displays the CARE College of Engineering logo and accreditation marks from the Institution's Innovation Council and NEA. The central graphic shows 'CARE TECH Fest'25' with icons for a lightning bolt, a gear, and a brain. To the left is a QR code for registration, and to the right is the event date: 16 OCT 2025, with a last registration date of 10.10.2025. Below this, five event categories are listed with icons: Intellectual Arena (Paper Presentation), Innovista (Project Expo), Design'O (UI/UX Designing), Battle of Prompts (Prompt Engineering), and CAD Combat (CAD Modelling). A section for Student Coordinators lists five members with their names, departments, and contact numbers. At the bottom, there are logos for various student associations (ADSA, CESA, CSSA, ECSA, MESA) and social media links for Instagram, WhatsApp, Facebook, and the college website.

**FOR REGISTRATION**

PER HEAD Rs.150

**DATE**  
**16**  
**OCT**  
**2025**

LAST DATE FOR REGISTRATION  
10.10.2025

**INTELLECTUAL ARENA**  
PAPER PRESENTATION

**INNOVISTA**  
PROJECT EXPO

**DESIGN'O**  
UI/UX DESIGNING

**BATTLE OF PROMPTS**  
PROMPT ENGINEERING

**CAD COMBAT**  
CAD MODELLING

**STUDENT COORDINATORS**

Yuvarajan M - ECE  
97912 33747

Pishon J S - AI&DS  
9865685155

Karthick Raja - CSE  
8838595603

Pooja Lakshmi S - AI&DS  
7200005533

Kamalesh S - MECH  
9940961167

Manibalan P - CIVIL  
6369306107

For More Information  
[care-techfest-2025.netlify.app](https://care-techfest-2025.netlify.app)

**ADSA**  
**CESA**  
CIVIL ENGINEERING STUDENTS ASSOCIATION

**CSSA**  
Computer Science Engineering  
Student Association

**ECSA**  
ELECTRICAL ENGINEERING STUDENTS ASSOCIATION

**MESA**  
MECHANICAL ENGINEERING STUDENTS ASSOCIATION

 care\_college\_of\_engineering

 9894698914

 care college of engineering

 care.ac.in

We are delighted to announce our One-Day National Level “CARE TECH FEST’25” and warmly invite you to be a part of this prestigious event. The fest will serve as an excellent platform for students to showcase their talents, exchange innovative ideas, and explore the latest trends in Engineering and Technology.

## Event Highlights:

- Technical Paper Presentations
- Project Expo
- Technical Events

Exciting prizes and certificates await winners and participants!

We kindly request you to spread the word among your friends and encourage them to participate in this vibrant platform to learn, innovate, and grow.

# ONE-DAY WORKSHOP ON WIRELESS COMMUNICATION & SENSORS



**IETE**  
सह दीर्घ करवावहे

**CARE**  
COLLEGE OF ENGINEERING  
(An Autonomous Institution)

**NAAC**  
A

**ECSA**

Department of Electronics and Communication  
Engineering  
Organises

**ONE DAY  
WORKSHOP ON WIRELESS  
COMMUNICATION &  
SENSORS**

**Date: 06.10.2025 (Monday)**

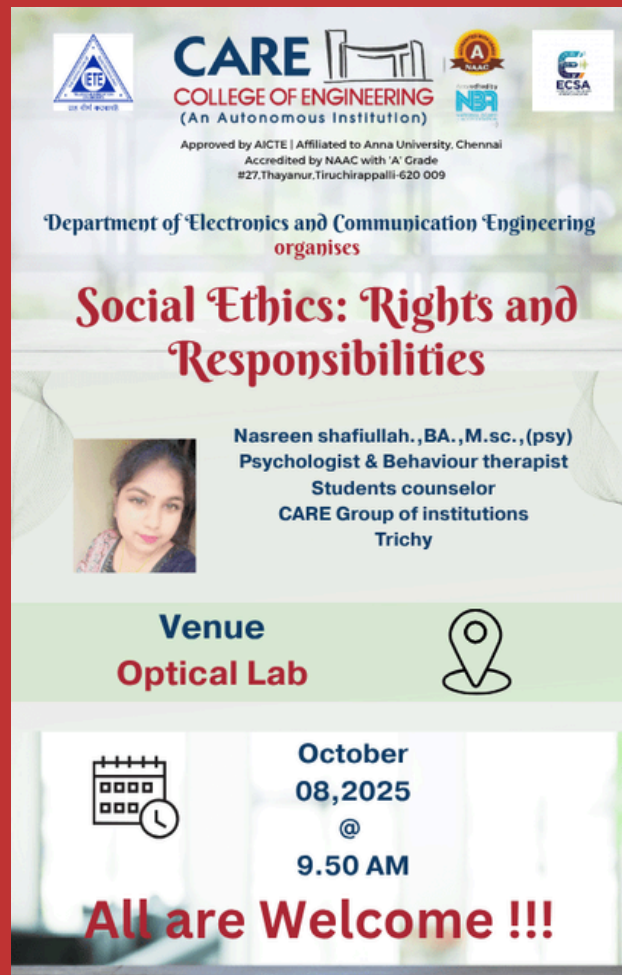
**Time: 9.30 AM to 5.00 PM**

**Venue: Engineering Seminar Hall**

#27, Thayanur, Dindigul NH, Trichy-620009 | care.ac.in

The Department of Electronics and Communication Engineering at CARE College of Engineering organized a One-Day Workshop on “Wireless Communication & Sensors” on October 7, 2025, in the Engineering Seminar Hall. The workshop provided participants with hands-on exposure to ESP8266 microcontroller programming, wireless communication systems, and sensor integration using embedded C. Students worked on real-time projects such as a Smart Door Lock System and an Environmental Monitoring System, gaining valuable insights into IoT applications and practical troubleshooting. The interactive sessions effectively bridged theoretical knowledge with practical skills, making the workshop an engaging and enriching learning experience for all participants from 3 year and Final year ECE.

# GUEST LECTURE ON SOCIAL ETHICS – RIGHTS AND RESPONSIBILITIES



The poster features the CARE College of Engineering logo at the top left, with accreditation logos for AICTE, NAAC, and ECSA. The text reads: 'Department of Electronics and Communication Engineering organises Social Ethics: Rights and Responsibilities'. The speaker is identified as 'Nasreen shafiullah., BA., M.sc., (psy) Psychologist & Behaviour therapist Students counselor CARE Group of institutions Trichy'. The venue is 'Optical Lab' and the date is 'October 08, 2025 @ 9.50 AM'. The poster concludes with 'All are Welcome !!!'.

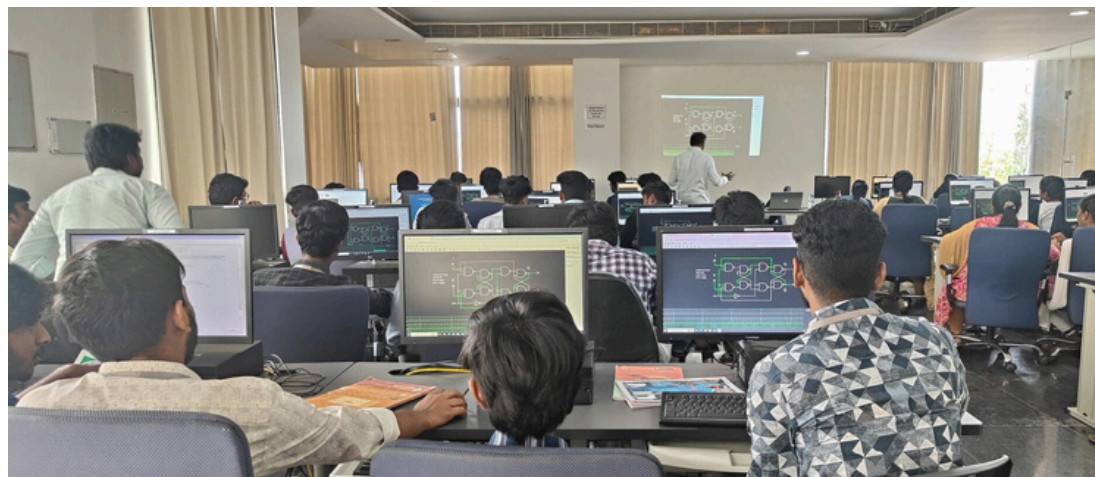
The Department of Electronics and Communication Engineering, CARE College of Engineering (An Autonomous Institution), organized a guest lecture on “Social Ethics: Rights and Responsibilities” on October 08, 2025, at 9:50 AM in the Optical Lab. The session was delivered by Ms. Nasreen Shafiullah, Psychologist & Behaviour Therapist and Students Counselor, CARE Group of Institutions, Trichy. The event aimed to sensitize students to the importance of ethical values, social responsibility, and moral conduct in both personal and professional life. Ms. Nasreen emphasized the significance of maintaining ethical standards in everyday decisions and interactions. She explained how understanding one’s rights and responsibilities contributes to building a harmonious and socially conscious environment. The interactive session included discussions on real-life scenarios, where students actively participated and shared their perspectives on ethical dilemmas.

# GUEST LECTURE ON IMAGE PROCESSING



**Department of Electronics and Communication Engineering organized a guest lecture on “Image Processing in AR/VR Applications” to provide students with real-world insights into the integration of image processing technologies in augmented and virtual reality systems on 10.10.2025 from 9:30 am - 12:30 pm in Engineering Seminar Hall for III Year ECE Students. The Resource Person Mr. S. Vaidyanathan, Founder & CEO, Marlion Technologies, Mr. R. Gokul, Co-Founder & CRO, Marlion Technologies are pioneers in AR/VR development at Marlion Technologies, Madurai a company known for its innovative contributions to visual computing and intelligent automation. The session aimed to bridge the gap between theoretical learning and practical applications in emerging technology domains.**

# INDUSTRY INTEGRATED COURSE – DIGITAL SYSTEMS DESIGN



**Department of ECE, organized an Industry Integrated course for II Year ECE students on Digital Systems Design (U24EC343) from 29.09.2025 to 30.09.2025 and 13.10.2025 in Engineering Seminar Hall. The resource person Mr. K. Sathiyar, Tech Lead & Test Project Manager, from Robert Bosch, Coimbatore handled the two days session effectively by giving industry exposure to the students. Nিকেleshwaran, of II-year ECE introduced the chief guest and delivered the welcome address. Dr.J.Jeyarani, HOD and Dean IQAC, shared her insightful thoughts and needs for the industry supported course. The overall session ended with a gratitude note by Mrs.M.Shiva Shankari, Assistant Professor, ECE. A total of 63 students were benefited by the course which gives industry-oriented applications in relevance to the digital concepts.**

# ONE-DAY WORKSHOP ON WIRELESS COMMUNICATION & SENSORS

The poster features a yellow background with a blue border. At the top left is the IETE logo with the motto 'सह दीर्यं करवावहे'. To its right is the CARE College of Engineering logo, which includes a building icon and the text 'COLLEGE OF ENGINEERING (An Autonomous Institution)'. Further right are the NAAC 'A' grade logo and the ECSA logo. Below these logos, the text reads 'Department of Electronics and Communication Engineering Organises'. The main title 'ONE DAY WORKSHOP ON WIRELESS COMMUNICATION & SENSORS' is written in large, bold, blue letters. Below the title, the date 'Date: 06.10.2025 (Monday)' and time 'Time: 9.30 AM to 5.00 PM' are listed in red. The venue 'Venue: Engineering Seminar Hall' is also in red. On the left side, there is an icon of a wireless antenna, and on the right, there is an icon of a sensor. At the bottom, the address '#27, Thayanur, Dindigul NH, Trichy-620009 | care.ce.in' is written in red.

**Department of Electronics and Communication Engineering Organises**

## ONE DAY WORKSHOP ON WIRELESS COMMUNICATION & SENSORS

**Date: 06.10.2025 (Monday)**

**Time: 9.30 AM to 5.00 PM**

**Venue: Engineering Seminar Hall**

#27, Thayanur, Dindigul NH, Trichy-620009 | care.ce.in

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# INDUSTRY INTEGRATED COURSE ON EC3552 – VLSI AND CHIP DESIGN



The Department of Electronics and Communication Engineering organized an Industry-Integrated Course for III Year ECE students on “EC3552 – VLSI and Chip Design” on 11.10.2025 and 13.10.2025 at the DSP Lab, Department of ECE. The course aimed to provide students with practical insights into VLSI design, verification, and testing methodologies, bridging the gap between academic concepts and industrial applications. On 11.10.2025, the session was conducted by Dr. Raja Sekar K, Senior Project Engineer, Centre for Development of Advanced Computing (C-DAC), Bengaluru. He covered VLSI applications in core industries and sequential digital circuits such as adders, multipliers, comparators, and shift registers. A hands-on VHDL lab session helped students implement, simulate, and verify digital circuits, linking theory to practical applications. On 13.10.2025, Dr. Ramji D R, Design Lead, Tessolve Semiconductor Pvt. Ltd., Bengaluru, handled the session. He explained the ASIC Design Flow, fault models, test coding, automatic test pattern generation (ATPG), and advanced topics on Design for Testability (DFT) and Scan Design with Boundary Scan Methods. He also discussed career opportunities, required skills, and internship options in the VLSI industry, providing students with guidance on professional pathways.

# CARE TECHNOVATE '25 – A SCIENCE EXPO FOR SCHOOL STUDENTS



The poster features the CARE College of Engineering logo at the top, including the NRI logo. The main title 'CARE TECHNOVATE '25' is in large, bold, yellow and green letters, with 'A SCIENCE EXPO' below it. A central graphic shows a globe surrounded by 17 Sustainable Development Goals icons. To the right, the theme is 'SUSTAINABLE DEVELOPMENT GOALS' with the subtitle 'SUSTAINABILITY WITH INTELLIGENT TECHNOLOGY'. A green banner indicates the date and time: '29th November 2025 | 9:30 am'. Below this, a yellow box highlights an 'Attractive Cash Prize' of '1 LAKH' for 'Maximum 4 members per team + 1 mentor'. A QR code is provided for registration, with the text 'Register here for free'. The last date for registration is '23rd November'. The location is '27, Dindigul NH, Thayanur, Trichy - 620 009' and the contact number is '98946 98914'.

**CARE**  
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(An Autonomous Institution)

**CARE TECHNOVATE '25**  
A SCIENCE EXPO

**THEME**  
**SUSTAINABLE DEVELOPMENT GOALS**  
SUSTAINABILITY WITH INTELLIGENT TECHNOLOGY

**29<sup>th</sup> November 2025 | 9:30 am**

Last Date for Registration  
23<sup>rd</sup> November

Who can Participate  
Students above 9<sup>th</sup> Grade

Attractive Cash Prize  
**1 LAKH**  
Maximum  
4 members per team  
+ 1 mentor

Register here for free

27, Dindigul NH, Thayanur, Trichy - 620 009.  
For more details - 98946 98914.

CARE College of Engineering is delighted to announce CARE Technovate '25 – A Science Expo for School Students, an inspiring platform designed to ignite curiosity, creativity, and innovation among young minds. The event encourages students to explore scientific concepts and technological innovations that align with the Sustainable Development Goals (SDGs). Participants will have the opportunity to present their ideas, prototypes, and projects that contribute toward building a sustainable and intelligent future. Date & Time: 29th November 2025 & 9:30 AM onwards Theme: Sustainable Development Goals – Sustainability with Intelligent Technology Students from various schools are invited to participate and showcase their innovations. The expo will feature interactive exhibits, project demonstrations, and evaluation by an expert jury panel. Outstanding projects will receive attractive cash prizes worth ₹1,00,000 along with certificates and recognition.

# CARE TECHNOVATE'25 – A SCIENCE PROJECT EXPO



**CARE Technovate'25 – Science Project Expo was successfully organized on 03 December 2025 at CARE College of Engineering, highlighting innovative student projects aligned with the United Nations Sustainable Development Goals (SDGs). The expo encouraged school students to develop impactful, technology-driven solutions addressing environmental, social, and technological challenges. The event witnessed remarkable participation, featuring 513 students, 197 teams, and 42 schools from various districts. Students showcased a wide range of models and prototypes addressing SDG themes such as Clean Water & Sanitation, Affordable & Clean Energy, Good Health & Well-Being, Industry & Innovation, Sustainable Cities, Climate Action, and Life Below Water.**

# ONE-DAY ONLINE WORKSHOP ON NEXT-GENERATION RESEARCH WRITING

One day Online Workshop  
on

**Next-Generation Research  
Writing: Practical AI Tools for  
High-Impact Publications**



Resource person

**Dr. K. S. SOWMIYA RANI Ph.D**

Founder, Sowmis\_AWW

Coimbatore

CARE College of Engineering (Autonomous), Tiruchirappalli, through the Department of Electronics and Communication Engineering (Anna University Approved Nodal Research Centre), successfully organized a One-Day Online Workshop titled “Next-Generation Research Writing: Practical AI Tools for High impact publications on 2.1.2026. The workshop was conducted with the objective of enhancing research writing skills and familiarizing faculty members and researchers with practical AI-enabled tools for high-quality scholarly publications. The workshop was delivered by Dr. K. S. Sowmiya Rani, Ph.D., Founder, Sowmis\_AWW, Coimbatore, an experienced academic trainer and editor in research writing. Her expert guidance and practical demonstrations enabled participants to understand and apply AI tools effectively in their research workflow. A total of 74 participants attended the workshop, comprising approximately 45 internal faculty members from CARE College of Engineering and 30 external participants from various colleges. The program successfully empowered participants with next generation research writing skills and reinforced the importance of responsible AI usage in scholarly communication.