

# CSE MILESTONE

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CSE

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ODD SEM



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## VISION AND MISSION

CARE College of Engineering

Transform lives through Education and Research

## MISSION 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 Create Computer Science Engineers through Quality Education and Research.

## DEPARTMENT MISSION

To impart Problem Solving, Innovative and Entrepreneurship with sound knowledge in Computer Science and Engineering.

To establish a Research Centre where students can present their research ideas.

To develop Moral, Ethical Values and Social Responsibility to the students

## PROGRAM EDUCATIONAL OBJECTIVE (PEO'S)

PEO 1 - To enable graduates to pursue higher education and research, or have a successful career in industries associated with Computer Science and Engineering, or as entrepreneurs.

PEO 2 - To ensure that graduates will have the ability and attitude to adapt to emerging technological changes.

## PROGRAM SPECIFIC OBJECTIVE (PSO'S)

PSO 1 - Analyze, Design and develop computing solutions by applying foundational concepts of computer science and Engineering.

PSO 2 - Apply software engineering principles and practices for developing quality software for scientific and business applications.

PSO 3 - Adapt to emerging information and communication technologies (ICT) to innovate ideas and solutions to existing/Novel problems.

## PROGRAM OUTCOMES (PO'S)

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 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 consideration for the public health and safety, and the cultural, societal, and environmental considerations.

## PROGRAM OUTCOMES (PO'S)

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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.

## LEADERSHIP

### CEO'S MESSAGE



**Mr. Prative Chend B.,**  
CEO

I am filled with immense pride and admiration for the achievements and progress made by the Computer Science and Engineering department. This period has been a testament to the resilience, dedication, and innovative spirit that define our community.

I am confident that the Computer Science and Engineering department will continue to thrive and innovate. The challenges we face today are opportunities for tomorrow's breakthroughs. Let us remain steadfast in our pursuit of knowledge, innovation, and excellence.

Together, we are shaping the future of technology and making a positive impact on society.

Thank you, and I look forward to celebrating many more successes with you all.

Warm regards,

## LEADERSHIP

### PRINCIPAL MESSAGE



Dr. S. Shanthi  
Principal

I am pleased to highlight the remarkable achievements and advancements of our Computer Science and Engineering department. This semester has been a testament to the hard work, dedication, and innovative spirit of our community.

As we look to the future, I am confident that our department will continue to achieve new heights. The challenges we face today will undoubtedly lead to tomorrow's innovations. I encourage our students to remain curious, diligent, and passionate about their studies and research.

Thank you for your hard work and commitment. Let us continue to strive for excellence and make a positive impact on the world.

Warm regards,

## LEADERSHIP

### DEAN'S MESSAGE



Dr. A. Pasumpon Pandian  
Dean R&D

I am proud to share the numerous achievements and significant progress of our Computer Science and Engineering department in the realm of research and development. This period has been marked by remarkable innovation, collaboration, and dedication.

I am confident that the foundation we have built will propel us to even greater heights. The rapidly evolving field of computer science presents both challenges and opportunities, and our department is well-equipped to tackle these with innovation and determination.

Let us continue to strive for excellence and make significant contributions to the technological advancements of the future.

Warm regards,

## LEADERSHIP

### HOD MESSAGE



**Dr. J.Suresh**  
**HOD**

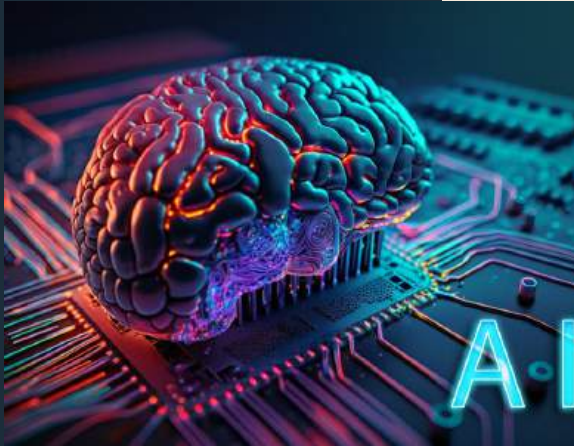
I am delighted to share the remarkable achievements and progress of our Computer Science and Engineering department. This semester has truly exemplified our commitment to excellence, innovation, and collaboration.

I would like to extend my heartfelt gratitude to our faculty, staff, students, and alumni for their unwavering support and contributions. Together, we are building a dynamic and forward-thinking academic community that is making significant strides in the field of computer science and engineering.

Thank you for your hard work and commitment. Let us continue to strive for excellence and make a positive impact on the world.

Warm regards,

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# Summer Workshop on Artificial Intelligence



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Department of Computer Science and Engineering & Artificial Intelligence and Data Science , combinedly planned to conduct a summer workshop on “Artificial Intelligence” from 21.07.2022 to 23.07.2022 in our campus. Dr.B.Ezhilavan ,Founder & CEO , VEI Technologies , Chennai and his team are going to give a Hands-on training on machine learning algorithms, Deep learning and Digital Image Processing. Students of CSE & AIDS ,moving from second year to third year will be benefited by this program.



# Five days Faculty Development Program on DATA SCIENCE



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<p><b>1. HISTORY OF CARE</b></p> <p>The dynamic rapidly growing and ever-evolving "CARE College of Engineering" was started in the year of 2009 under the joint Sponsorship Educational Trust. It is affiliated to Anna University, Chennai with the approval of AICTE. CARE offers application-oriented courses with hardware training to one of the most conducive learning environments in India. It maintains top class of the highest standards and ensures the full potential of students.</p> <p>CARE adheres to partnership between Industry, Government, and Higher Education to gain maximum benefits. The faculty uses corporate communication through their seminars as well as for the support they provide. The result is clear cuttable.</p> <ul style="list-style-type: none"> <li>Offering Quality Education</li> <li>Recruiting Skilled Human Resources</li> <li>Ensuring Excellent Training</li> <li>Developing Innovations</li> <li>Creating the Best Ambience for Education &amp; Research</li> <li>Self-Development &amp; Growth</li> </ul>	<p><b>2. DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING</b></p> <p>The Department of Computer Science and Engineering at CARE College of Engineering was formed in the year 2011 to continue its longstanding research commitment with world class learning. The department has a comprehensive curriculum framed by Anna University in accordance to all aspects of Computer Hardware and Software with an emphasis on practical learning. The course includes industry oriented on campus topics to prepare our students for the latest developments in computer science and engineering.</p> <p>The department has state-of-the-art infrastructure and computing equipment supported by high-speed Internet. Various student organizations like IEEE, Programming Club, Web Development Club, and Mobile App Development Club organize throughout the year. Our faculty members are all striving for their innovation, learning from their students experience with continuous learning.</p> <p><b>Courses Offered</b></p> <ul style="list-style-type: none"> <li>B.E. Computer Science and Engineering</li> <li>B.Tech Software Engineering and Data Science</li> <li>M.Tech. in Information Management Systems</li> </ul>	<p><b>3. FACULTY MEMBERS</b></p> <p><b>CHIEF FACULTY:</b>          Dr. B. Pradeep Kumar,          Chief Executive Officer (CEO),          CARE Group of Institutions, Trichy.</p> <p><b>FACULTY:</b>          Dr. A. Shanthi,          Professor,          CARE College of Engineering, Trichy.</p> <p>Dr. A. Pragasam Prasad,          Dean B.E.,          CARE College of Engineering, Trichy.</p> <p><b>Coordinator:</b>          Dr. A. Suresh,          Associate Professor and Head,          Department of CSE,          CARE College of Engineering, Trichy.</p> <p><b>Coordinators:</b>          Mrs. V. Suresh, IITMEE,          Mrs. M. Sathya, APJCE</p> <p><b>Guests:</b>          Mrs. Y. Suresh,          Associate Professor (CSE),          CARE College of Engineering,          Anna University, Chennai.</p>
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We are happy to inform you that it is planned to conduct a five days faculty development program on DATA SCIENCE by the department of Computer Science and Engineering in association with IEEE Care students branch Madras section. The FDP is scheduled from 01-August-2022 to 05-August-2022. Eminent professors from esteemed institutions are agreed to act as a resource person. The FDP is aimed to make acquainted the concepts and techniques of Data Science. Faculty members, Research scholars and PG students can attend this FDP by paying a sum of Rs.300/- . Last date for registration is 29.07.2022.

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## CSSA & ADSA Association Inauguration



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We department of Computer Science and Engineering and Artificial Intelligence & Data Science conducted the Inauguration of our department association on 10.09.2022 ,Saturday,11.00A.M at Fulcrum hall.Mr. J.Leo Ananth,Managing Director ,eQuadriga was the Chief Guest of this function. The function starts with welcome address by CSSA President followed by lamp lightning ,Principal's address,Chief Guest address ,office bearers introduction and vote of thanks by ADSA President and came to an end by 12.20pm.

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The inauguration of CSSA and ADSA heralds a new chapter in the journey of the CSE Department, promising a vibrant ecosystem where students can explore their passions, hone their skills, and make meaningful contributions to the fields of computer science, artificial intelligence, and data science.

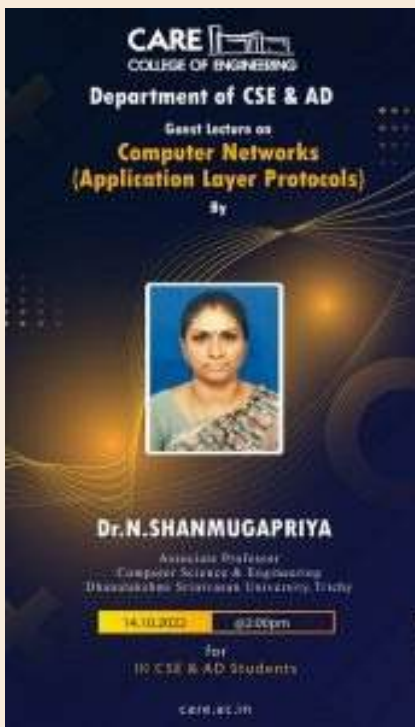
Application layer protocols



# Guest Lecture on Application Layer Protocols



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The lecture commenced with an introduction to application layer protocols, elucidating their role in facilitating communication between networked applications. Attendees gained a comprehensive understanding of protocols such as HTTP, FTP, SMTP, and DNS.

Building on the success of this guest lecture, the CSE Department endeavors to organize more such informative sessions, providing students with opportunities to delve into various aspects of networking and communication technologies.

Mrs.V.Gomathi, AP/CSE ,organized a guest lecture in the title named “Application Layer Protocols ” on 14.10.2022 at 2.00p.m for third year CSE and ADS students.Dr.N.Shanmugapriya ,Associate Professor,Computer Science and Engineering ,Dhanalakshmi Srinivasan University ,Trichy accepted our invitation and will deliver the lecture .

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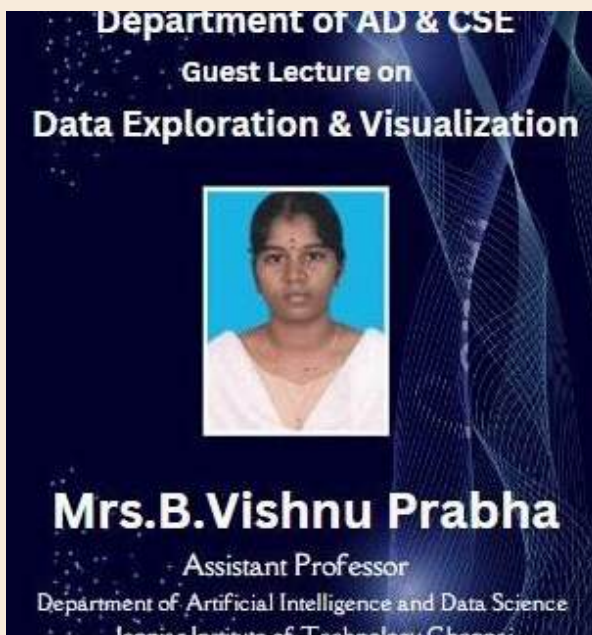
## BEST DATA VISUALIZATION PROJECTS



## Guest Lecture on Data Exploration and Visualization



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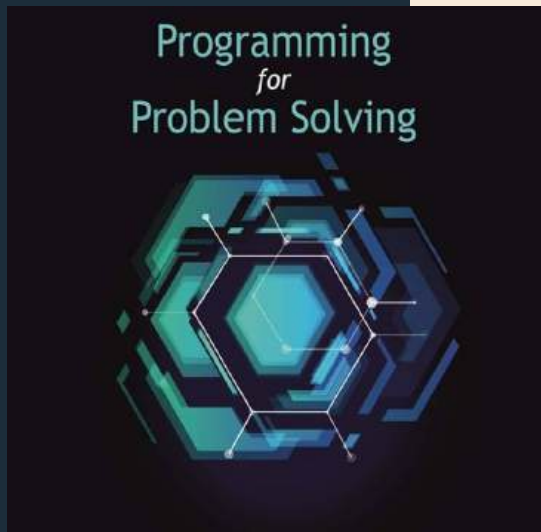


The Computer Science and Engineering (CSE) Department hosted an illuminating Guest Lecture on Data Exploration and Visualization on 18.10.2022. The seminar aimed to deepen students' understanding of techniques and tools for exploring and visualizing data, essential skills in today's data-driven world.

The lecture began with an introduction to data exploration, emphasizing its importance in uncovering patterns, trends, and insights hidden within datasets. Attendees learned about exploratory data analysis (EDA) techniques and best practices.

Department of AD and CSE organized a guest lecture on Data Exploration & Visualization on 18.10.2022 @1.45p.m through Google meet. Mrs. T. Amutha, HoD /AD and Ms. N. Parveen Banu, AP/AD organized this guest lecture. Mrs. B. Vishnu Prabha, AP/ AI&DS, Jeppiar Institute of Technology, Chennai, will be the guest speaker. Students of second year AD & CSE and third year AD will attend this session.

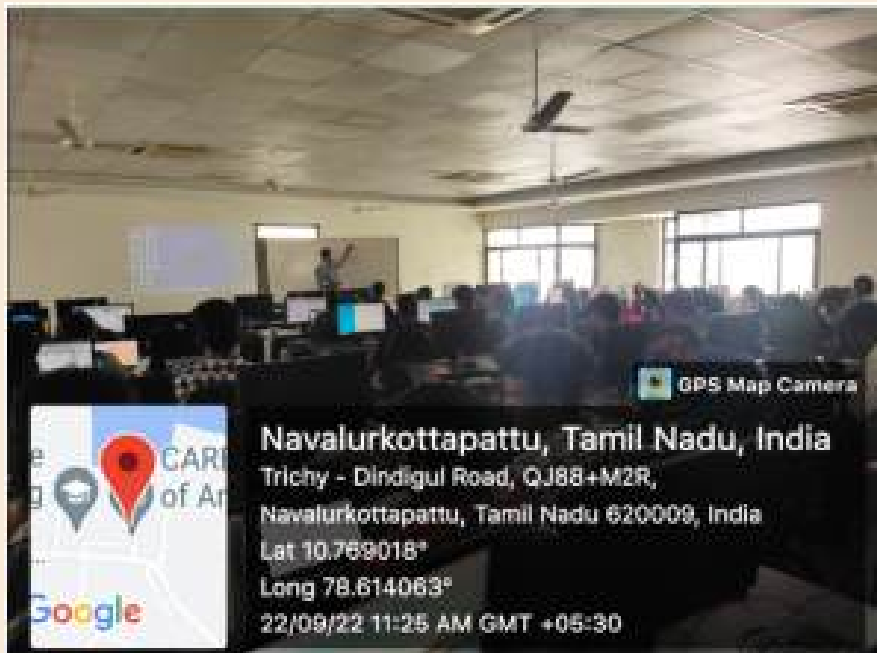
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## Value Added Course on Foundations of Programming and Problem Solving



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Mrs. V.Gomathi, AP/CSE ,organized a Value Added Course on Foundations of Programming and Problem Solving for third year and final year CSE and AD students . Dr. Anandkumar Prakasam,Root – IT learning Centre Research Consultancy, Trichy acted as a resource person and handled the session for 14 days (18 sessions) from 10.08.2022 to 13.10.2022. For third year students ,Fundamentals of Programming Languages was taken and for final years Basics of Programming Languages & Test Case Implementation was taken .

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## Seminar on Machine Learning



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The Guest Lecture event, Seminar on Business Analytics in the Computer Science and Engineering (CSE) Department, was held on 27.10.2022 . The seminar aimed to provide insights into the application of business analytics in the field of computer science, bridging the gap between theory and practical implementation.

The lecture commenced with an exploration of the fundamental concepts of machine learning, providing attendees with a comprehensive understanding of algorithms, models, and techniques.

Department of Artificial Intelligence and Data Science organized a seminar in the topic of Machine Learning on 27.10.2022 @ 10.00am. Mrs.Philomine Roseline Thomas , Assistant Professor, Department of Computer Application, Presidency College , Bangalore accepted our invitation and deliver the seminar. Students of final year CSE,third year CSE and AD will be benefited by this seminar. Mrs.M.Vijayalakshmi, AP/AD made all the arrangements for this seminar.

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