

CSE MILESTONE

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2023-2024

ODD SEM

CSE



PREPARED BY

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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

Emerge as a renewed department for globally competent Computer Science Engineers.

DEPARTMENT MISSION

To impart quality education, problem solving and Entrepreneurship skills in Computer Science and Engineering.

To facilitate research based innovative projects in Computer Science and Engineering

To develop Moral, Ethical Values and Social Responsibility among the students..

2023 - 2024



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)

CARE College of Engineering

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 pride and admiration for the remarkable progress and accomplishments of our Computer Science and Engineering department. This period has been characterized by innovation, perseverance, and an unwavering dedication to academic and research excellence. I extend my deepest 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 society.

Warm Regard,

LEADERSHIP

PRINCIPAL'S MESSAGE



Dr. S. Shanthy
Principal

I am filled with immense pride and admiration for the incredible progress and achievements within our Computer Science and Engineering department. This period has been marked by innovation, resilience, and a relentless pursuit of excellence.

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,

LEADERSHIP

DEAN R&D'S MESSAGE



Dr. A. Pasumpon Pandian
Dean R&D

I am delighted to share the outstanding progress and achievements within our Computer Science and Engineering department. This period has been characterized by groundbreaking research, innovative projects, and a steadfast commitment to excellence.

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 through our research.

Warm regards,

LEADERSHIP

HOD MESSAGE



Dr. J.Suresh
HOD

I am excited to share the remarkable progress and achievements within our Computer Science and Engineering department. This semester has been a testament to our commitment to innovation, collaboration, and academic excellence.

our contributions are what make our department thrive, and together we are making significant strides in our pursuit of knowledge and excellence.

Thank you for your ongoing commitment and hard work. Let us continue to achieve great things together!

Warm regards,

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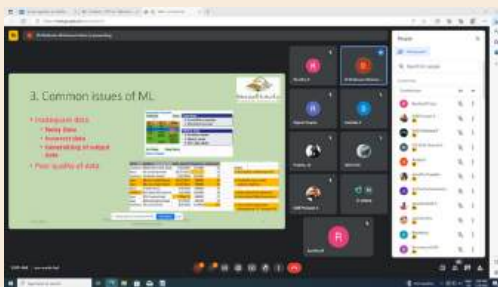
STTP on “MACHINE LEARNING AND DEEP LEARNING WITH DATA SCIENCE”



1.



The session began with an overview of networking fundamentals, explaining the role of networks in modern communication and data exchange. The speaker detailed the basic components of networks, such as routers, switches, and servers.



We, department of CSE and AI&DS organizing a five days Short Term Training Program on " Machine Learning and Deep Learning with Data Science" from 17.07.2023 to 21.07.2023 through online mode. It is aimed to explore the in-depth knowledge on algorithms and implementation behind the Machine learning and Deep learning with Data Science with hands on session using Python. Eminent Professors from various Universities are as resource person make the session pellucid. Faculty members from institution , UG ,PG students and Industry persons can utilize this opportunity.



2023 - 2024



Knowledge Sharing Session on Poster Designing



2.



The Department of Computer Science and Engineering recently organized an inspiring Knowledge Sharing Session on Poster Designing on 13.06.2023. This event aimed to equip students with essential design skills to create impactful and visually appealing posters, which are vital for academic, professional, and creative presentations.



The session started with an overview of poster designing, emphasizing the importance of visual communication. The speaker discussed the key elements that make a poster effective, including clarity, attractiveness, and informativeness.

Attendees were introduced to various tools and software commonly used in poster designing, such as Adobe Illustrator, Photoshop, Canva, and other free resources. The speaker demonstrated basic functionalities and tips for using these tools efficiently.

The Knowledge Sharing Session on Poster Designing has been organized on 13.06.2023 by the department of CSE to the faculty members at computer lab 1 at 2.00 pm – 4.00 pm. The session has been delivered by Mr. M. Mohamed Nizarudeen AP/CSE in the effective manner and faculty members were really learned well and they have created the creative designs at the end of the session and those validated by the Session trainer. The training has been provided on Photoshop and CANVA and its tools to create the design. Now the faculty members are ready to create the creative designs.

2023 - 2024

EXPLOIT ONLINE TOOLS & BECOME A SMART USER

A Knowledge Sharing Session to
Faculty Members

Resource Person

R. Ranitha

Assistant Professor
Department of CSE
CARE College of Engineering

23/06/2023
COMPUTER LAB1
10.00 AM - 12.00 PM

www.care.ac.in



Knowledge Sharing Session on “Exploit Online Tools & Become a Smart User”



The Department of Computer Science and Engineering recently held an enlightening Knowledge Sharing Session on “Exploit Online Tools & Become a Smart User” on [Date of the Event]. This event was designed to introduce students to various online tools that can enhance productivity, learning, and digital proficiency.

The session began with an introduction to the significance of online tools in today's digital age. The speaker emphasized how these tools can streamline tasks, foster collaboration, and enhance learning experiences.

The Knowledge Sharing Session on “Exploit Online Tools & Become a Smart User” was a tremendous success, equipping students with valuable insights and practical skills in using various online tools. The knowledge gained during the session will undoubtedly enhance their digital literacy and productivity.

The Knowledge Sharing Session on “Exploit Online Tools & Become a Smart User” has been organized on 23.06.2023 by the department of CSE to the faculty members in computer lab 1 at 10.00 AM – 12.00 PM. The session has been delivered by Mrs.R.Ranitha AP/CSE in the effective manner. The faculty members were really amazed to learn new tools, they have created their own quiz, Poll by using the tools. It was validated by all, present in the session. It was very useful for the faculty to use those tools in their academics.

Data Structures



Guest Lecture On “Data Structures-Graphs”



4.



The Department of Computer Science and Engineering was pleased to host an insightful Guest Lecture on “Data Structures - Graphs” on 20.11.2023. The event aimed to deepen students' understanding of graph data structures, which are fundamental in computer science for solving complex problems related to networks, relationships, and connectivity.

The lecture began with an introduction to graph theory, explaining the basic concepts of vertices (nodes) and edges (links). The speaker discussed various types of graphs, including directed, undirected, weighted, and unweighted graphs.

2023 - 2024

The guest lecture on “Graphs in Data Structures” has been organized by CSSA and IEEE. The lecture will be held on 20.11.2023 in Engineering Seminal Hall for Second Year Students. The Resource Person is Dr.S.Saraswathi, Professor, Shivani Engineering College, Trichy will be delivering the Session from 11.AM to 12.30 PM in Engineering Seminar Hall.



KNOWLEDGEIMBIBE



Knowledge Sharing Session on “IMBIBE knowledge on WORDPRESS”



5.



The Department of Computer Science and Engineering was delighted to host an enriching Knowledge Sharing Session on “IMBIBE Knowledge on WordPress” on 17.06.2023. This event was designed to provide students with an in-depth understanding of WordPress, one of the most popular content management systems (CMS) used for website development.

The Knowledge Sharing Session on WORD PRESS has been organized on 17.06.2023 by the department of CSE to the faculty members in computer lab 1 at 10.00 AM – 12.00 PM. The session has been delivered by Mrs.R.SASIKALA AP/CSE in the effective manner. Faculty members were really learned well and they have created creative designs of the website. At the end of the session those are validated by the Session trainer. The training has been provided on How to build a website and content Management in the website. Now the faculty members are ready to create the creative website.

2023 - 2024



Knowledge Sharing Session on “Uplift your Knowledge on Networking”



6.



The Department of Computer Science and Engineering was pleased to organize an insightful Knowledge Sharing Session on “Uplift Your Knowledge on Networking” on [Date of the Event]. This event aimed to provide students with a comprehensive understanding of networking principles and technologies, essential for the ever-evolving IT landscape.

The Knowledge Sharing Session on “Uplift Your Knowledge on Networking” has been organized on 21.06.2023 by the department of CSE to the faculty members in computer lab 1 at 10.00 A.M – 12.00 PM. The session has been delivered by Mr. K. JEEVA, AP/CSE in effective manner and faculty members were really learned well about the details like Cable, Devices, IP Address. It was useful for the faculty to uplift the knowledge on Networking Essentials.

2023 - 2024



Guest Lecture on " Integrity and Authentication in Cryptography and Cyber security"



7. A guest lecture on "Integrity and Authentication in Cryptography and Cybersecurity" was conducted via Google Meet on 07.09.2023, targeting third and fourth-year CSE students. Dr. R. Bhuvaneshwari from Amrita School of Computing, Amrita Vishwa Vidyapeetham, Amrita University, Chennai, was the speaker. The lecture aimed to provide a comprehensive understanding of integrity and authentication in the context of cryptography and cybersecurity, based on the Anna University curriculum.

Key topics covered included authentication functions, MAC, hash functions, security of hash functions (HMAC, CMAC, SHA), digital signatures, authentication protocols, DSS, Schnorr Digital Signature Scheme, and the ElGamal cryptosystem.

The lecture underscored that integrity and authentication are foundational in cryptography and cybersecurity, essential for establishing trust in digital interactions. With advancing technology, the implementation of robust integrity and authentication measures is increasingly critical.





Guest Lecture On “Distributed Computing Through Cloud Computing”



8. Guest lecture on “Distributed Computing through Cloud Computing” was arranged and successfully conducted for 3rd year CSE and AI&DS students on 09/09/2023 in the Afternoon session. Dr P. Shanmuga Sundari, Assistant Professor, SRM University, Trichy was the resource person for this Guest Lecture session.

This Guest lecture is aimed to provide the enriched knowledge to 3rd year students on the subject CS3551-Distributed Computing which is in Anna university curriculum. Distributed File system and Middleware technologies are identified as GAP for this subject and it was filled through this guest lecture.

Resource person Dr. P. Shanmuga Sundari explored the guest lecture session on the topics of Definition of Cloud Computing, Characteristics of Cloud, Cloud Deployment Models, Cloud Service Models, Virtualization, Load Balancing, Replication, Monitoring, Cloud Services and Platforms. She additionally covers the topic Distributed File systems and Middle ware technologies on Distributed computing to fill the curriculum gap.





Guest Lecture on “Compiler Design – LR Parsing”



The Department of Computer Science and Engineering was delighted to host a captivating Guest Lecture on “Compiler Design – LR Parsing” on [Date of the Event]. This lecture aimed to deepen students' understanding of compiler design, focusing specifically on LR parsing techniques, which are fundamental to the construction of efficient compilers.



A guest lecture on “LR Parsing in Compiler Design” took place on 12.09.2023 at CR24. The lecture focused on essential LR parsing methods, including SLR Parser, CLR Parser, and LALR Parser. It provided a comprehensive understanding of parsing tables and string acceptance. The lecture was attended by enthusiastic third-year students interested in compiler construction.



Guest Lecture On “Web Technologies”



10.



2023 - 2024

A guest lecture on "Web Essentials in Web Technology" was held on 13.09.2023 at CR24. The lecture focused on the significance of web technology in today's digital world and covered key points, including web essentials, HTTP requests, HTTP responses, and database connectivity. Third-year students attended the lecture, emphasizing the importance of understanding these concepts for building modern web applications and encouraging practical application in web development projects.



Guest Lecture On “Data Warehousing”



11.



The Department of Computer Science and Engineering was pleased to organize a comprehensive Guest Lecture on “Data Warehousing” on 21.09.2023. This lecture aimed to provide students with insights into the concepts, principles, and applications of data warehousing, a crucial aspect of modern data management and analytics.

The lecture began with an overview of data warehousing, explaining its role in aggregating, organizing, and analyzing large volumes of data from disparate sources. The speaker highlighted the importance of data warehousing in supporting business intelligence and decision-making processes.

2023 - 2024

A guest lecture on “Meta Data & Dimensional Modeling in Data Warehousing” was held on 21.09.2023 online. The lecture highlighted the importance of metadata in data modeling and warehousing and its potential to enhance dimensional modeling for better business intelligence and data-driven decisions. Third-year CSE and AI&DS students attended, with an emphasis on the pivotal role of metadata, encouraging further exploration in this critical area.

“CSSA – ASSOCIATION INAUGURATION (2023-2024)”



12.

On 21st of September, 2023, the Department of Computer Science and Engineering (CSE) hosted the inaugural ceremony for the Computer Science Student Association (CSSA) for the academic year 2023-24. The esteemed guest of honor for this event was Mr. V. Venkataramanan, Director of Engineering at Flipkart in Bangalore.



The highlight of the day was Mr. Venkataramanan’s insightful discourse on the subjects of leadership and adaptability. He generously shared valuable insights into the technological skills essential for students preparing for job placements. Furthermore, he delved into the technologies employed in crafting Flipkart’s WebPages and offered guidance on how to cope with setbacks during the placement process. The interactive session concluded with a vibrant exchange of questions from the students, enriching their understanding.



2023 - 2024



Pulzate 7E8- 10th National Level Technical Symposium



The 10th National Level Technical Symposium, held on October 20, 2023, marked a significant milestone in the field of Computer Science and Engineering. The event was graced by the presence of Mr. Rayman Issac, Data Architect, Rencata.Inc, Chennai, who felicitated the function as the chief guest. The symposium aimed to provide a platform for knowledge exchange and technical exploration.

The event began with an inaugural ceremony where Mr. Rayman Issac delivered an inspiring speech, emphasizing the importance of Choosing the path to start the carrier in the field of technology.

Events :

- Tech Talk.
- Debugging
- JAM
- AdZap
- Star of Pulzate

Data Manipulation
using
Pandas



Guest Lecture On “Data Manipulation with Pandas” in Foundation of Data Science



14.

The guest lecture on “Data Manipulation with Pandas” in Foundation of Data Science subject has been organized by CSSA and IEEE. The lecture was held on 07.12.2023 in Engineering Seminal Hall for Second Year Students CSE A & B. The Resource Person is Dr.P.Sujatha, Associate Professor & Head, Department of CSE, Sudharsan Engineering College, Pudukkottai, will be delivering the Session from 10.AM to 12.30 PM in Engineering Seminar Hall.

The lecture commenced with an overview of Pandas, highlighting its importance in data analysis and manipulation tasks. The speaker introduced the core data structures of Pandas: Series and DataFrame, and explained their usage in handling tabular data.

The lecture concluded with an interactive Q&A session. Students had the opportunity to ask questions about specific Pandas functionalities, data manipulation challenges, and best practices in data analysis. The speaker provided detailed answers and shared additional resources for further exploration.

The Guest Lecture on “Data Manipulation with Pandas” was an enriching learning experience, providing students with practical skills and knowledge in data manipulation using Pandas. The concepts and techniques learned during the lecture will be invaluable in their journey as data scientists and analysts.

2023 - 2024



Industrial Visit to “V-Dart Trichy”



15.

The Department of Computer Science and Engineering organized an insightful Industrial Visit to V-Dart Trichy on 08.11.23. This visit provided students with a valuable opportunity to gain practical insights into the operations and technologies employed by V-Dart, a leading IT services and solutions company.

Totally 110 students from II year CSE visited V-Dart with four faculty members by 10.00am on 08.11.23. V-Dart arranged company tour which was very useful to explore V-Dart and a Mock Test as an Activity to students that include Aptitude, Verbal Reasoning and Technical Session for students.

Total number of Students visited:110

II year A section-55

II year B section-55

Faculty members-04

Mr.M.Mohamed Nizarudeen

Mrs.R.Ranitha

Mrs.R.Anne Pratheeba

Mrs.S.Nageshwari



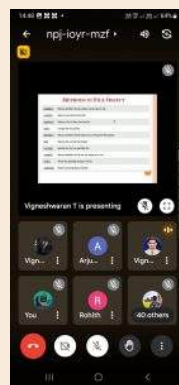
2023 - 2024



Guest Lecture On “File Handling in Python”



16.



The guest lecture on “File Handling” in Problem Solving and Python Programming subject has been organized by CSSA and IEEE. The lecture was held on 09.12.2023 in Fulcrum for First Year Section A,C,and E of around 180. The Resource Person is Mr. T.Vigneshwaran, Assistant Professor, Department of CSE, Christ University ,Bangalore delivered the Session from 2.00 P.M to 3.30 PM through online Mode.

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