CARE
COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TECH TRIP

VOLUME 1

TECHNICAL MAGAZINE

WWW.CARE.AC.IN|ENGINEERING|COMPUTER-SCIENCE

Editorial Members:

Faculty:

Mrs.R.Sasikala,AP

Mr.C.Muthukumar,AP

Student:

Mahitha K(III CSE)

Vasuki R (II CSE)

VISION AND MISSION

VISION OF THE INSTITUTION

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 OBJECTIVES(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 OBJECTIVES(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)

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.

PROGRAM OUTCOMES(PO'S)

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.

CEO'S MESSAGE

It is with great excitement and pride that I introduce the inaugural issue of the Computer Science and Engineering department's magazine for the academic year 2020-2021. This magazine marks a significant milestone for our department, reflecting the collective efforts, achievements, and aspirations of our vibrant community.

I am confident that our department will continue to lead the way in technological innovation and academic excellence. The stories and achievements captured in this magazine are just the beginning. I encourage all students and faculty to remain curious, passionate, and dedicated to their pursuits. Together, we can overcome any challenge and achieve great things.

hank you for your commitment and enthusiasm. Let us continue to strive for excellence and make a positive impact on the world.

Warm regards,

Shri B.PRATIVE CHAND,

CEO,

CARE College of Engineering

PRINCIPAL'S MESSAGE

It is with immense pleasure and pride that I present to you the inaugural issue of the Computer Science and Engineering department's magazine for the academic year 2020-2021. This first volume marks a significant milestone in our journey, showcasing the collective efforts, creativity, and achievements of our department.

The launch of this magazine is a testament to the dedication and hard work of our entire community. The creation of this magazine is a reflection of the collaborative spirit that is at the core of our department.

I extend my heartfelt gratitude to everyone who contributed to the creation of this magazine. Your hard work, creativity, and dedication have made this possible. I am excited to see how this platform will evolve and continue to highlight the incredible talent and achievements within our department.

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

Warm regards,

Dr. S.Shanthi,
Principal
CARE College of Engineering

DEAN R&D'S MESSAGE

It is with great pride and enthusiasm that I welcome you to the inaugural issue of the Computer Science and Engineering department's magazine for the academic year 2020-2021. This magazine marks a significant milestone in our department's journey, reflecting the dedication, innovation, and hard work of our vibrant community.

The creation of this magazine is a reflection of our commitment to fostering a culture of inquiry and excellence. It brings together diverse perspectives and experiences, encouraging dialogue and inspiring future innovations.

I extend my heartfelt gratitude to everyone who contributed to the creation of this magazine.

Thank you for your unwavering commitment and enthusiasm. Let us continue to strive for excellence and make a positive impact on the world through our research and innovation.

Warm regards,

Dr.A. Pasumpon Pandian,
Dean of Research and Development,
CARE College of Engineering.

HOD'S MESSAGE

It is with immense pride and excitement that I present the inaugural issue of the CSE department's magazine for the academic year 2020-2021. This first volume represents a significant milestone for our department, reflecting the hard work, creativity, and dedication of our entire community.

The launch of this magazine comes at a time when we have witnessed extraordinary resilience and innovation from our students and faculty. Despite the unprecedented challenges of the global pandemic, our community has continued to thrive, achieving remarkable success in academics, research, and extracurricular activities. This magazine is a testament to their perseverance and commitment to excellence. I extend my heartfelt gratitude to everyone who contributed to the creation of this magazine.

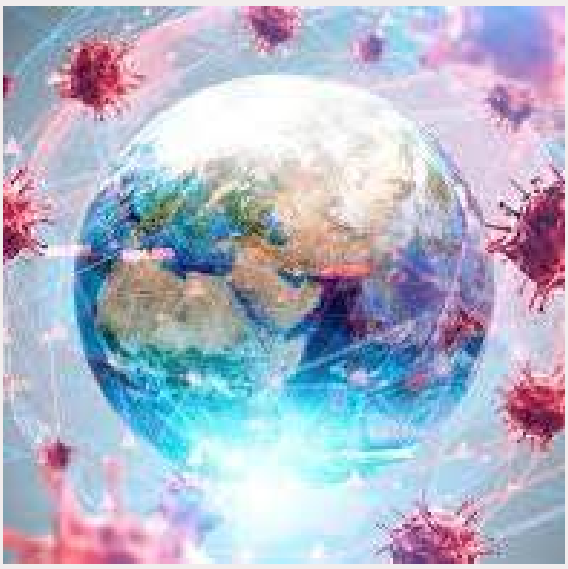
Thank you for your unwavering commitment and enthusiasm. Let us continue to strive for excellence and make a positive impact on the world.

Warm regards,

Dr.J. Suresh,
Head of the Department,
CARE College of Engineering.

THE IMPACT OF COVID-20 ON TECH EDUCATION

The COVID-20pandemic has dramatically transformed many aspects of our lives, including the way we approach education. In the field of technology education, the shift from traditional in-person classes to remote learning has brought about significant changes, challenges, and opportunities.



Rapid Transition to Online Learning

When the pandemic first struck, educational institutions around the world had to swiftly transition to online learning. For many computer science and engineering departments, this shift involved moving lectures, labs, and assessments to virtual platforms. Tools like Zoom, Microsoft Teams, and Google Classroom became essential for delivering lectures, facilitating discussions, and conducting exams.

Challenges in Remote Learning

One of the primary challenges faced during this transition was ensuring that students had access to the necessary resources. Not all students had reliable internet connections or access to high-performance computers, which are often required for tech courses. Institutions had to find ways to support these students, whether through loaner programs for equipment or providing internet access solutions.

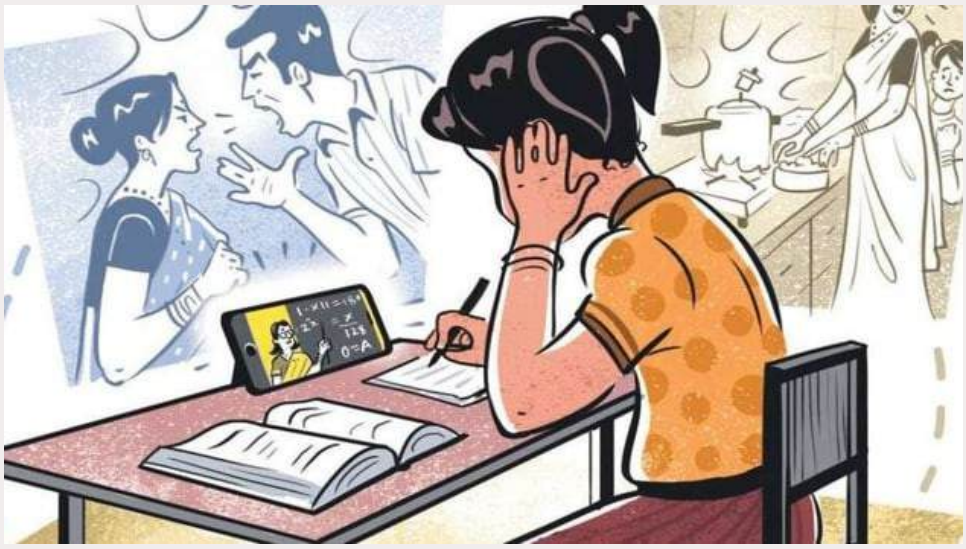
Another significant challenge was maintaining the hands-on experience that is crucial in tech education. Labs and practical sessions, which are vital for subjects like programming, hardware design, and networking, had to be reimagined. Virtual labs and simulation tools were utilized to replicate the hands-on experience, but they often lacked the full impact of in-person interactions.

Long-Term Implications

The rapid adoption of online learning tools and methods during the pandemic is likely to have lasting effects on tech education. Hybrid models, which combine in-person and online learning, may become more common, offering greater flexibility and accessibility for students. Additionally, the experience gained from remote teaching can lead to more robust and resilient educational systems that are better prepared for future disruptions.

Conclusion

The COVID-20 pandemic has undoubtedly posed significant challenges to tech education, but it has also accelerated the adoption of innovative teaching methods and technologies. As we move forward, it is essential to build on these advancements to create a more inclusive, flexible, and resilient educational environment. The lessons learned during this period will shape the future of tech education, ensuring that it continues to evolve and adapt in an ever-changing world.



By

Ramesh -IV CSE

IN-PLANT TRAINING EXPERIENCE AT VAKEN TECHNOLOGIES

From June 15, 2020, to December 5, 2021, I had the opportunity to participate in an in-plant training program at Vaken Technologies.

vaken
always inspired!

This experience, conducted entirely online, provided me with invaluable insights and practical knowledge that have significantly enhanced my understanding of the tech industry.

Embracing Remote Learning

The training program at “Vaken Technologies” was adapted to an online format due to the ongoing pandemic. Initially, I was apprehensive about the effectiveness of remote learning for such a hands-on experience. However, the comprehensive structure and well-organized modules quickly alleviated my concerns. The virtual training sessions were interactive, with real-time demonstrations and Q&A segments that mimicked the traditional in-person learning environment.

Gaining Practical Skills

The training covered a wide range of topics relevant to the current tech landscape. I delved into advanced programming techniques, software development methodologies, and the latest trends in artificial intelligence and machine learning. Each module was designed to provide both theoretical knowledge and practical application.

IN-PLANT TRAINING EXPERIENCE AT VAKEN TECHNOLOGIES

Adapting to New Challenges

The remote nature of the training also presented unique challenges, such as managing time effectively and staying motivated in a home environment. However, these challenges were valuable learning experiences. I developed better time management skills and learned to stay disciplined and focused, which are crucial traits for any professional setting.

Looking Ahead

The in-plant training at Vaken Technologies was a transformative experience that equipped me with the skills and confidence to navigate the tech industry. The knowledge and experience I gained have not only enhanced my academic performance but also prepared me for future professional endeavors. I am grateful for this opportunity and look forward to applying these skills in real-world scenarios.

In conclusion, the online in-plant training at Vaken Technologies was a remarkable journey of learning and growth. It demonstrated that, with the right structure and support, remote learning can be as effective and enriching as traditional methods. This experience has been a significant milestone in my academic and professional journey, and I am excited about the opportunities that lie ahead.

By

JONA AHASHINV M , IV year CSE

CODING CHALLENGES FOR READERS

Challenge 1: FizzBuzz

Write a program that prints the numbers from 1 to 100. But for multiples of three, print "Fizz" instead of the number, and for the multiples of five, print "Buzz." For numbers which are multiples of both three and five, print "FizzBuzz."

Challenge 2: Palindrome Checker

Create a function that checks whether a given string is a palindrome. A palindrome is a word, phrase, or sequence that reads the same backward as forward (e.g., "racecar").

Challenge 3: Fibonacci Sequence

Write a program that prints the first n numbers in the Fibonacci sequence, where n is provided by the user. The Fibonacci sequence starts with 0 and 1, and each subsequent number is the sum of the previous two.

Challenge 4: Factorial Calculator

Implement a function that calculates the factorial of a given non-negative integer. The factorial of a number n is the product of all positive integers less than or equal to n.

Try solving these challenges in your preferred programming language. Share your solutions with your classmates or on coding platforms to compare approaches and learn from each other. Happy coding!

By

SANDHVA S , III year CSE

FOOD REVIEW DURING A PANDEMIC

The COVID-19 pandemic has transformed the way we experience food, from dining out to home cooking. Here's a look at how the pandemic has affected our culinary habits and some standout food experiences during this unique time.

Shift to Takeout and Delivery

With restaurants forced to close or limit indoor dining, takeout and delivery became essential. Many local eateries adapted quickly, enhancing their online ordering systems and offering contactless delivery. This shift not only supported businesses but also allowed food lovers to explore new cuisines from the comfort of their homes.

Home Cooking Revolution

With more time at home, many people turned to cooking as a creative outlet. Social media platforms became flooded with homemade dishes, and cooking challenges emerged. From sourdough bread to homemade pasta, home chefs embraced the opportunity to experiment with new recipes and ingredients.

FOOD REVIEW DURING A PANDEMIC

Spotlight on Local Ingredients

The pandemic also sparked a renewed interest in local and sustainable food sources. Farmers' markets saw increased attendance as consumers sought fresh produce while supporting local farmers. Many people became more conscious of their food choices, opting for seasonal and locally sourced ingredients.

Innovative Dining Experiences

Some restaurants found innovative ways to provide unique dining experiences. Outdoor dining setups, complete with heated patios and cozy decor, became a popular choice for those looking to enjoy a meal out safely. Additionally, themed takeout packages, like DIY meal kits, allowed diners to recreate restaurant favorites at home.

Conclusion

The pandemic has reshaped our relationship with food in many ways. From supporting local businesses to enhancing cooking skills at home, the culinary landscape has evolved significantly. As we continue to navigate these changes, the love for food remains a comforting constant in our lives, reminding us of the joy it brings, even in challenging times.

Whether through takeout or homemade meals, food continues to connect us, offering nourishment and joy during uncertain times.

By

Balamurugan S . II year CSE

IN PLANT TRAINING

1. S.P . Bharath , IV year CSE is doing In-plant training in Vaken Technologies from 15.06.2020 to 05.12.2021, through online mode.
2. JONA AHASHINY M , IV year CSE is doing In-plant training in Vaken Technologies from 15.06.2020 to 05.12.2021 , through online mode.
3. RAJALAKSHMI S , IV year CSE is doing In-plant training in Vaken Technologies from 15.06.2020 to 05.12.2021 , through online mode.
4. RAMESH S ,IV year CSE is doing In-plant training in Vaken Technologies from 15.06.2020 to 05.12.2021 , through online mode.
5. RENUGA SRI M , IV year CSE is doing In-plant training in Vaken Technologies from 15.06.2020 to 05.12.2021 , through online mode.
6. SUGAPRIYA R , IV year CSE is doing In-plant training in Vaken Technologies from 15.06.2020 to 05.12.2021 , through online mode.
7. THIRUMURUGAN S , IV year CSE is doing In-plant training in Vaken Technologies from 15.06.2020 to 05.12.2021 , through online mode.
8. ZUMAANA HASEEN A , IV year CSE is doing In-plant training in Vaken Technologies from 15.06.2020 to 05.12.2021 , through online mode.
9. AAKASH C , III CSE went an In-Plant training in ACIL, from 14.12.2020 to 06.01.2021.
10. DIVYA S , III CSE went an In-Plant training in TECHVOLT COIMBATORE, from 14.12.2020 to 13.02.2021 .
11. IYYAPPAN P , III CSE went an In-Plant training in NEELAVATH SOFTWARE,COIMBATORE, from
25.06.2020 to 25.07.2020.

IN - PLANT TRAINING

12. KEERTHANA P , III CSE went an In-Plant training in INTERNSHALA, from 05.12.2020 to 15.01.2021.
13. MAHITHA K , III CSE went an In-Plant training in INTERNSHALA, from 18.02.2021 to 24.02.2021.
14. NOOR FAISAL M , III CSE went an In-Plant training in endira robotics, from 18.02.2021 to 21.03.2021.
15. SUBASREE B S , III CSE went an In-Plant training in FANTASY SOLUTIONS, from 18.02.2021 to
24.02.2021.
16. SULTHANI M, III CSE went an In-Plant training in FANTASY SOLUTIONS, from 01.03.2021 to 08.03.2021.
17. SYEDHA MUBEENA M , III CSE went an In-Plant training in FANTASY SOLUTIONS, from 01.03.2021 to
08.03.2021.
18. TAMILARASAN R , III CSE went an In-Plant training in INTERNSHALA, from 15.01.2021 to 26.02.2021.

BEST OUTGOING STUDENT