

NEWSLETTER

ACADEMIC YEAR: 2024-2025

AUGUST 2024 - JANUARY 2025

VOLUME 8, ISSUE 1

Dr. B. Rajalakshmi

HoD-CSE



It gives me immense pleasure to present the newsletter for the Academic Year 2024-2025 Volume - 8, Issue - 1 (Aug 2024-Jan 2025), the nucleus of innovative thoughts and ideas.

"All students can learn and succeed, but not on the same day in the same way."

The news letter is a platform to exhibit the student's potential and their hidden talents, making them to think innovatively and build their ideas in a creative way. I am extremely happy to share that the department regularly organizes professional development activities for students to enhance their employability skills. I would like to express my heartfelt congratulations to all the students and faculty for putting their efforts into this newsletter. A special thanks goes to the editorial crew for all of their tremendous efforts!. This newsletter enlightens all the events about the Department of Computer Science and Engineering, including achievements, extra-curricular, co-curricular and academic success of the faculty and the students.

Dr. Asha Joseph

HoD-CSE



This newsletter truly embodies what Steve Jobs once said: 'The people who are visionary enough to think they can change the world are the ones who do.'

This newsletter serves as a showcase for students to demonstrate their abilities and untapped skills, encouraging them to foster innovative thinking and creatively develop their concepts. I'm delighted to share that the department consistently arranges professional development opportunities, aiming to boost students' job readiness. I extend my sincere congratulations to every student and faculty member who contributed to this publication. A special thank you is also due to the editorial team for their incredible hard work! This edition highlights all the happenings within the Department of Computer Science and Engineering, covering the achievements, extracurricular pursuits, co-curricular activities, and academic triumphs of both faculty and students. It's a testament to the innovative spirit and unleashed potential of our students and faculty. What a remarkable display of talent and dedication!

Dr. Manjunatha

Principal



Dear All,

As the technology is growing at a rapid rate, we wish students to empower themselves with technical skills which is required in the industry, along with showcasing their talents in extracurricular activities. It gives me great pleasure to congratulate the Department of Computer Science and Engineering on the publication of their newsletter for the academic year 2024–2025. The newsletter encapsulates information about the various academic activities, co-curricular activities and other club events conducted in the Department of Computer Science and Engineering. I am happy to note that various initiatives are taken by the faculty to disseminate knowledge by organizing training programs, workshops and expert lectures from time to time to keep abreast with the latest developments in the field of science and technology. I am sure that publishing a newsletter of this sort containing the achievements of the CSE department will be a recognition to them. I wish them all the very best for future endeavours.

Dr. R. J. Anandhi

Professor & Dean-Academics



Technology is changing the way people think and function and is crucial to address a variety of engineering and technological challenges. As a result, significant progress has been made in the field of Computer Science and Engineering by integrating knowledge based on theoretical and practical aspects. The Department of Computer Science and Engineering makes an effort to enhance this field through its research and teaching. It gives me immense pleasure that the Department of Computer Science and Engineering is releasing the newsletter for the year 2024-2025. The newsletter is a forum that brings out the best talent among the students and their multitalented skills which showcases their academic and extracurricular activities. The current newsletter Volume-8 Issue-1 provides all the stakeholders with a general overview of the department and its activities.

My sincere congratulations to the editorial board and contributors for creating such an outstanding publication. Best wishes for securing greater success and reaching new heights in the days to come.

NEWSLETTER - OCTOBER 2024

Event 1

Title

Tedx Talk

Date

04-10-2024, 07-10-2024, 08-10-2024, 09-10-2024

Time

From : 10.00 AM to : 12.00 PM

Beneficiary

3rd & 5th SEM CSE Students

Brief Description

A series of enlightening and thought-provoking TEDx Talks were hosted, bringing together a diverse group of speakers who delved into impactful themes such as artificial intelligence, human potential, innovation, and resilience. Each talk offered unique insights, sparking meaningful conversations around the future of technology and the human experience.

Session Details

1. Title: Time Travelling with AI to Connect with Lost Loved Ones

Speaker: Army Kurzwell

Date: October 4, 2024

Highlights: This session explored the futuristic concept of using AI and digital consciousness to simulate interactions with deceased loved ones, raising ethical and emotional implications.

2. Title: Can AI Preserve Your Most Precious Memories?

Speaker: Pau Aleikum Garcia

Date: October 7, 2024

Highlights: Pau delved into how AI can be used as a memory preservation tool, focusing on digital legacy and emotional connection through data retention.

3. Title: How to Survive a Losing Team

Speaker: Good Sport Jody Avirgan

Date: October 7, 2024

Highlights: Jody shared insights on leadership, morale, and perseverance in underperforming teams—applicable both in sports and professional environments.

4. Title: A Brain Implant That Turns Your Thoughts into Text

Speaker: Good Sport Jody Avirgan

Date: October 7, 2024

Highlights: This session covered cutting-edge neurotechnology enabling direct translation of thoughts into text, promising breakthroughs in communication for individuals with disabilities.

5. Title: AI and the Paradox of Self-Replacing Workers

Speaker: Madison Mohns

Date: October 8, 2024

Highlights: Madison discussed automation's impact on the workforce, addressing the dilemma of human relevance in an increasingly AI-driven world.

6. Title: How to Find Creativity and Purpose in the Face of Adversity

Speaker: Suieikia Jaouad

Date: October 9, 2024

Highlights: A deeply personal and motivational talk on harnessing inner strength and creativity during life's most challenging periods.



NEWSLETTER - OCTOBER 2024

Event 2

Title

Motivational Talk on Mastering the Spotlight:
Effective Communication for Professional Success

Date

08-10-2024

Time

From: 2:00 PM to :4:00 PM

Beneficiary

3rd Sem CSE Students

Brief Description

The Department of Computer Science and Engineering organized an inspiring talk on “Mastering the Spotlight: Effective Communication for Professional Success” for third-semester students on October 8, 2024, from 2:00 PM to 4:00 PM. The session was led by Ms. Sneha Ganesh, an Analyst at MiQ, Bangalore.

Ms. Ganesh highlighted the significance of crafting an impactful Elevator Pitch, building a strong Personal Brand, and mastering both Verbal and Non-Verbal Communication. She provided engaging and relevant examples to illustrate these concepts. The third-semester students participated actively and greatly benefited from the session, gaining valuable insights into enhancing their communication skills for professional success.

Additionally, Ms. Ganesh's dynamic presentation style and real-world examples resonated deeply with the students, leaving them motivated and better equipped to navigate their future careers with confidence and clarity. The interactive nature of the talk ensured that the students not only absorbed the information but also felt empowered to apply these communication strategies in their academic and professional journeys.



NEWSLETTER - OCTOBER 2024

Event 3

Title

Coding Contest

Date

08-10-2024

Time

From: 01.00 PM To: 04.00 PM

Beneficiary

5th Sem CSE Students

Brief Description

The Department of Computer Science and Engineering at New Horizon College of Engineering, in collaboration with the Computer Society of India had organized a Coding Contest on 8th October 2024 from 1:00 PM to 4:00 PM at the CSE Labs. This contest was open to students from the 2022–2026 batch of Computer Science & Engineering.

Objectives:

- To encourage students to apply theoretical knowledge to practical coding challenges.
- To enhance problem-solving skills and logical thinking among participants.
- To prepare students for competitive programming and coding interviews.
- To promote teamwork, creativity, and innovation through coding.

Contest Process:

- Number of Questions: 3 coding problems designed to test various programming skills, contributed by industry leaders.
- Total Test Cases: 7 test cases across all questions, which participants strived to pass for a high ranking.
- Duration: 3 hours, from 1:00 PM to 4:00 PM.
- Lab Allocation: The contest was held in the CSE Labs, with systems set up for each participant.
- Programming Language: Participants were free to use any programming language of their choice, making the contest accessible to students with varied language proficiencies.
- Verification: Invigilators would verify test cases to ensure accurate scoring.

- Guidelines: Detailed guidelines have been provided to invigilators on monitoring and evaluating the participants' solutions. Guidelines were also provided to students, covering contest rules, allowed resources, and submission procedures.

Prize Money: Prize money for the top 5 contestants were as follows:

- 1st Prize: ₹8000
- 2nd Prize: ₹7000
- 3rd Prize: ₹6000
- 4th Prize: ₹5000
- 5th Prize: ₹4000

Ranking Process:

Participants' solutions have been evaluated based on the following criteria:

- Number of Test Cases Passed: The primary criterion would be the number of test cases a solution successfully passes. Each problem would have multiple test cases, and the solution that passes the most test cases would rank higher.
- Time Complexity of the Code: For solutions with the same number of test cases passed, the code with the lower time complexity would be ranked higher, ensuring that efficient algorithms are rewarded.
- Timestamp of Completion: In cases where two or more solutions pass the same number of test cases with similar time complexity, the time of submission would act as a tiebreaker, with the earliest submission ranking higher.

List of Winners:

Topper USN Name Section Prize Money

1. 1NH22CS048 BIPIN SAI SURYA

GUTTULA CSE-A

₹ 8000/-

2. 1NH22CS063 DEEPTHANSH M CSE-A ₹ 7000/-

3. 1NH22CS150 NIVETHA

MADHAVAN CSE-C

₹ 6000/-

4. 1NH22CS152 AKSHAY REDDY P CSE-C ₹ 5000/-

5. 1NH22CS217 SRIRAM K N CSE-E ₹ 4000/-

Prize Distribution Ceremony:

The prize distribution ceremony was held on 10th October 2024 in Tejas Seminar Hall. The event was presided over by Principal Dr. Manjunatha, who emphasized the importance of coding skills in securing placements and the value of consistent practice. Dean of Academics, Dr. RJ Anandhi, Heads of the department, Dr. B Rajalakshmi and Dr. Narayana Swamy Ramaiah presented the prizes to the winners, celebrating their achievements and encouraging them to continue honing their skills.



NEWSLETTER - OCTOBER 2024

Event 4

Title	Alumni Talk
Date	10-10-2024
Time	From: 10:00 AM To: 11:00 AM
Beneficiary	5 th Sem CSE Students
Brief Description	

Department of CSE jointly with Alumni Association had organized an "ALUMNI TALK" on 10th October 2024 from 10am to 11am. The invited alumni speaker was Ms. Bhavana V, graduate of 2022 batch. She has served as software Developer at Cerner. She is currently working as software engineer at Clinisys. The speaker highlighted the significance of understanding selection process and communication skill for Job Interview which offers numerous benefits, significantly enhance professional's capabilities and career prospects. The key topics included methods to improve technical skills and adopting a holistic approach to engineering. Attendees engaged in interactive discussions, exchanging experiences with the speaker online. The event cultivated a strong sense of community among alumni, promoting continuous mentorship and support. More than 150 students of 5th Semester have attended and benefitted from this event.



NEW HORIZON
COLLEGE OF ENGINEERING

Alumni Association | Department of Computer Science and Engineering

Alumni Talk

Selection Process and Communication Skill for Job Interview

📅 10 October 2024
🕒 10:00 AM - 11:00 AM
👥 5th Sem Students

Ms. Bhavana V
Software Engineer, Clinisys
Alumni Batch: 2018-2022

Faculty Coordinators:
Ms. Deepthi Jha S
Ms. Priyavardhini

Co-sponsors:
Dr. B Rajalakshmi
Dr. Narayana Swamy Ramsiah

Online Link
<https://meet.google.com/ott-jbnb-edy>



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Event 5

Title Expert talk on Topic: Algorithms in Health care and Networking

Date 16-10-2024

Time From: 02.00 PM To: 04.00 PM

Beneficiary 5th Sem CSE Students

Brief Description

Expert talk on Algorithms in Health care and Networking conducted for 5th Sem students studying the subject code: 22CSE52 course name: DAA

Expert talk on various Design Analysis algorithms such as greedy, knapsack, backtracking and queen's problems and discussed on these algorithms' applications in real world health care centre and in computer networks. These algorithms usage for diagnostics purpose and treatment for various patient diseases and algorithms such as greedy, knapsack and backtracking their usage in Networking field to debug and fix the error that occurs in different sub networks.



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Event 6

Title	Alumni Talk
Date	18-10-2024
Time	From: 11.00 AM To: 12.00 PM
Beneficiary	All Department Students

Brief Description

Department of CSE jointly with Alumni association had organized "ALUMNI TALK" on 18th October 2024 from 11am to 12pm. The invited alumni speaker was Ms. A A Baagyalakshmi, graduate of 2021 batch. She is currently working as Software Engineer at INTEL. Alumni highlighted the significance of transition from Campus to Career which offers numerous benefits, undoubtedly enhancing professional capabilities and career prospects. The key topics included methods to improve technical skills and Technique's for adopting a holistic approach to engineering to master the career and to qualify into the Tech at ease. Attendees engaged in interactive discussions, with the speaker online. This event fostered a sense of confidence among attendees and encouraged ongoing mentorship and support. More than 60,3rd semester students of CSE department have attended this event



NEW HORIZON
COLLEGE OF ENGINEERING

Alumni Association | Department of Computer Science and Engineering

Alumni Talk

**From Campus to Career:
My Journey into the
Tech World**

18 October 2024
11:00 AM to 12:00 PM
3rd Sem Students

Ms. A A Baagyalakshmi
Software Engineer
Intel

Event Coordinators:
Ms. Deepthi Jha S
Ms. Priyavardhini

Convenors:
Dr. B Rajalakshmi
Dr. Narayana Swamy Ramalah

Online Link
<https://meet.google.com/ott-jbnb-edy>



NEWSLETTER - OCTOBER 2024

Event 7

Title From Challenge to Opportunity: Mindset Shift

Date 21-10-2024

Time From: 02.00 PM To: 04.00 PM

Beneficiary 5th SEM CSE Students

Brief Description

On October 21, 2024, the Department of Computer Science and Engineering organized an inspiring motivational talk titled “From Challenge to Opportunity: Mindset Shift” for the fifth-semester students, from 2:00 PM to 4:00 PM. The session was led by Dr. Uma Gautam, the Founder of HeadPro Consulting, Bangalore.

Dr. Uma Gautam shed light on the crucial differences between a fixed mindset and a growth mindset, offering valuable insights into the key principles for shifting one's mindset. She discussed the skills gap and industry expectations, highlighting the importance of cultivating habits that foster a growth mindset, all while providing relevant and practical examples.

The fifth-semester students actively participated and greatly benefited from the session. Additionally, a Q&A session was planned, fostering an interactive dialogue where students could engage with Dr. Uma Gautam, assessing their own skills and receiving guidance on how to improve. This interactive segment allowed for a deeper understanding and practical application of the concepts discussed, leaving students empowered and motivated.



NEWSLETTER - OCTOBER 2024

Event 8

Title

Industrial Visit to Nokia

Date

21-10-2024

Time

From: 09.00 AM To: 04.30 PM

Beneficiary

5th Sem CSE Students

Brief Description

On October 21, 2024, students of 5th semester Computer Science and Engineering had the opportunity to attend the 10th edition of the University Day program organized by Nokia Networks at Manyata Tech Park, Bangalore. This event marked a decade of collaboration between Nokia and various universities through the Nokia Bangalore University Collaboration Conclave (NBUC). The program aimed to highlight advancements in 5G and 6G technologies, innovation in AI, and future trends in India's engineering, research, and development sectors.

Mr. Kishore Patil, co-founder and CEO of KPIT discussed the future of global Engineering Research & Development (ER&D) and the growing importance of AI, 5G, and 6G across industries like telecom, aviation, and sustainability. He emphasized India's rapid movement towards becoming a strong economic power by 2030, underscoring the importance of continuous learning, prompt engineering, and design thinking for professionals.

Ms. Ponni, Director of the Central Lab at Nokia Mobile Network, shared insights into NBUC's vision and partnerships with organizations like IEEE, ITU, and NASSCOM. She highlighted the progress of NBUC since its founding on October 29, 2014, mentioning the collaboration with over 18 colleges and providing specialized learning to nearly 25,000 students on topics such as 4G Advanced, 5G, AI, and ML. She emphasized the importance of hands-on experience for students and faculty, especially through visits to Nokia's Bell Labs, Networks Labs, and the 6G Lab.

Lab Visits, Stalls and Exhibitions:

Students had the opportunity to explore Nokia's various labs, including the SRN (System Radio Networks) lab, which showcased a range of network technologies from 2G to 4G, cloud storage, and hardware devices. The instructor provided a detailed explanation of these technologies. In the 6G Lab, they observed a demonstration involving the transmission and reception of data over 6G wave points, using AI and ML to optimize data flow through an OFDM algorithm. There were several project exhibits from different institutes, with AI-based innovations like PDF automation, dynamic service aggregation, bird recognition AI, and LDPC (Low-Density Parity-Check) technologies. These projects demonstrated real-world applications of AI in networking.



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Event 9

Title	Industrial Visit to Xperi
Date	22-10-2024
Time	From: 09:00 AM To: 04:30 PM
Beneficiary	4 th Sem CSE Students
Brief Description	

On 22nd October 2024, students of 5th semester Computer Science & Engineering had the opportunity to visit Xperi Corporation, which offers software solutions for entertainment industry and connected cars. The visit was both informative and inspiring. The team was welcomed by Mr. Manroop Singh, who heads the talent acquisition and university relations team at Xperi. He was approachable and patient, answering all the questions and providing the students with valuable insights about the company.

About Xperi Corporation:

Xperi Corporation is renowned for its cutting-edge work in developing infotainment systems for homes and cars. With headquarters in San Jose, California, the company has a global presence spanning 29 countries, including major offices in Bangalore and Pune, India. Notably, their Bangalore office is the largest worldwide. The company is listed on the New York Stock Exchange (NYSE), and its mission revolves around inventing, developing, and delivering smarter technologies that create extraordinary user experiences. Xperi's core values focus on innovation and resilience, aiming to shape the future with new, intuitive technologies.

Expert Talks:

Mr. Manroop outlined several opportunities for students at Xperi, including the process of paid internship program, platform for talent development, campus hackathons and University placements.

Insights from Mr. Srikanth - Quality Engineer: Following the company introduction, students interacted with Mr. Srikanth, a Quality Engineer at Xperi, who has been with the company for over seven years. He is responsible for overseeing interns and works primarily in the media vertical, particularly on TiVo and DTS technologies, which are widely used in the automotive industry. Mr. Srikanth explained that TiVo is a smart TV platform that provides branding services to OEMs, sharing revenue with manufacturers. TiVo competes with Android TV but stands out due to its neutrality and advanced voice recognition features. TiVo's conversational search technology, powered by PCD engines, provides a personalized experience for users.

Mr. Srikanth also introduced us to the responsibilities of content operations at Xperi. The team handles the onboarding of applications, ensuring their smooth functioning and maintaining relevant metadata. He addressed concerns related to privacy and data usage, emphasizing that Xperi complies with different countries' data regulations.

Metadata and Its Role - Insights from Mr. Neeraj:

To help the students understand metadata management, they were introduced to Mr. Neeraj, who leads the metadata team. He explained the two types of metadata: base metadata (factual information) and advanced metadata (derived data like descriptions). When a user searches via voice commands, this data is converted to text, matched with metadata, and the relevant result is displayed. The team faces challenges, particularly with matching linear data for TV shows. Updating metadata, such as actor credits, can be tedious, especially for episodic content. However, Xperi uses a graph database to streamline the search process, linking various data nodes to deliver more accurate search results.

Mr. Neeraj also shared the company's expectations for candidates. They primarily seek quick coding skills and some awareness of technology, recognizing that students are freshly out of college.

Students' Presentation:

During the visit, students presented a solution to a problem statement involving Redis and the Jaccard algorithm. Redis was chosen for its efficiency due to data storage in the Redis cache and SQL database. The Jaccard algorithm was used for exact matching when a user searches for a specific movie title.

Final Thoughts and Action Plan:

At the end of the visit, students had another conversation with Mr. Manroop, who provided useful advice on crafting resumes and job applications. He emphasized the importance of tailoring resumes to specific job descriptions and ensuring that they are at least a 70-80% match. He also recommended avoiding template-based resumes and instead building them from scratch.



NEWSLETTER - OCTOBER 2024

Event 10

Title Expert Talk

Date 22-10-2024

Time From : 02:00 PM To : 04:00 PM

Beneficiary 3rd SEM CSE Students

Brief Description

Department of CSE organized an Expert talk on the topic “Data and its impact in real world” for 3rd semester students on 22/10/2024 at 02:00 PM to 04:00 PM. Resource person Dr. Sivabalan N, Data Integration Specialist, NTT DATA, Bangalore addressed the session. The resource person explained different types of Data, Data Sources, CRM, Importance of API and about integration tools with relevant examples. Third semester students were participated and got benefit from this.



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Event 11

Title	Guest talk on: Data Analysis and Dataware housing
Date	29-10-2024
Time	From : 02:.00 PM To : 04.00 PM
Beneficiary	3 rd SEM CSE Students
Brief Description	

Mr. Ankit Keshari, BI. Tech. Lead, Koch Global Business Solution India PVT LTD delivered guest talk on data warehouse is an enterprise system used for the analysis and reporting of structured and semi-structured data from multiple sources. Data ware housing and data Analysis with example scenario demonstrates a data pipeline that integrates large amounts of data from multiple sources into a unified analytics platform in Azure. This specific scenario is based on a sales and marketing solution, but the design patterns are relevant for many industries requiring advanced analytics of large datasets such as e-commerce, retail, and healthcare. Students take away was understood Application of Data ware housing in Real World.





**NEW HORIZON**
COLLEGE OF ENGINEERING

Department of Computer Science and Engineering

Guest Talk

**DATA ANALYSIS AND
DATA WAREHOUSE SOLUTIONS**


 29 October 2024
 2:00 PM to 4:00 PM
 Google Meet



Mr. Ankit Keshari
BI Tech Lead
Koch Global Business Solutions India Pvt Ltd
Bengaluru

Coordinators
Dr. M Dhanalakshmi
Ms. Yogitha

Convenors
Dr. B Rajalakshmi
Dr. Narayana Swamy Ramiah



ONLINE MEET LINK

NEWSLETTER - November 2024

Event 1

Title	Higher Education Talk - Shaping Tomorrow: Opportunities and Trends in Higher Education
Date	05-11-2024
Time	From : 02:00 PM To : 03:00 PM
Beneficiary	5 th SEM CSE Students
Brief Description	

On November 5th, 2024, the Department of Computer Science and Engineering (CSE) hosted an enlightening Expert Lecture from 2:00 PM to 3:00 PM titled "Shaping Tomorrow: Opportunities and Trends in Higher Education" for 5th- semester CSE students. Mr. Deepen Shrestha, a distinguished master's student from IIT Kanpur, addressed the session.

Mr. Shrestha provided a comprehensive overview of the various opportunities and emerging trends in higher education. He discussed a broad spectrum of topics that are crucial for students planning their academic and professional futures. These included the choices of courses available, the significance of part-time jobs in gaining practical experience, and how internships can be instrumental in building a strong career foundation.

The session aimed to equip students with the knowledge to make informed decisions about their higher education paths. Mr. Shrestha shared valuable insights into the strategies for selecting courses that align with students' career goals, the benefits of part-time work in complementing academic learning, and the essential role of internships in providing real-world experience and enhancing employability.

With around 50 students in attendance, the lecture expanded their understanding of higher education landscapes and inspired them to explore various avenues for personal and professional growth. The engaging and informative session was highly beneficial, motivating the students and preparing them to navigate their educational journeys.

Overall, the expert talk was a significant success, highlighting the Department's commitment to providing its students with quality guidance and exposure to current trends in higher education.



NEWSLETTER - November 2024

Event 2

Title	Industrial Visit to CSIR Fourth Paradigm Institute
Date	05-11-2024
Time	From : 09:30 AM To : 04.30 PM
Venue	CSIR Fourth Paradigm Institute, HAL, Bengaluru
Brief Description	

On November 5, 2024, the Department of Computer Science and Engineering arranged a full-day industrial visit for third semester students to the CSIR Fourth Paradigm Institute in Bangalore. The primary objective of this visit was to gain practical knowledge and understand how theoretical concepts are applied in real-world scenarios. This visit aimed to bridge the gap between classroom learning and practical application.

Activities and Insights:

- 1. High-Performance Computing (HPC) and its applications:** The visit began with a detailed lecture by Mr. Prabhu on High-Performance Computing (HPC) systems. These systems are characterized by their high-speed processing power, high-performance networks, and large memory capacity, enabling massive parallel processing. We learned about the structure of an HPC cluster, which typically consists of numerous computing nodes connected by a high-performance network. This robust infrastructure supports massive datasets and simulations, driving scientific innovation across various disciplines such as environmental science, physics, and engineering.
- 2. Cybersecurity:** Mr. Md Talib Hassan delivered an enlightening session on cybersecurity. He discussed the importance of protecting sensitive research data and computational resources at CSIR. The lecture covered various types of cyberattacks and cyber fraud, including phishing and malware. CSIR employs a multi-layered approach to cybersecurity, incorporating AI threat detection algorithms, encryption, access controls, and real-time monitoring to safeguard its valuable data.
- 3. Artificial Intelligence (AI) as a Boon:** Artificial Intelligence, a rapidly evolving field in computer science, was the focus of Mr. Hassan's second lecture. He emphasized AI's role in enabling faster data processing, pattern recognition, and predictive modelling. We explored how machine learning algorithms accelerate data analysis for projects in climate forecasting, anomaly detection, and biomedical research. AI, combined with HPC, allows CSIR to generate more accurate and scalable predictions, particularly in data-intensive fields like genomics and environmental studies.

4. Climate and Weather Modelling: Dr. Sumana S. presented on climate and weather modelling, a major focus area at CSIR 4PI. We learned about the complex process of building and running climate models, which simulate energy and material transfer through the climate system. The HPC capabilities at CSIR are utilized to predict long-term climate behaviour and immediate weather patterns. These models are crucial for preparing for extreme weather events, supporting policy-making, and contributing to global climate research.

Title

5. History and Applications of Computer Vision: The final session covered the history and applications of computer vision. The team were introduced to various computer vision tasks, including methods for acquiring, processing, analyzing, and understanding digital images. Applications of computer vision discussed included facial recognition, object recognition, and image search. These tasks transform visual images into descriptions that make sense to thought processes and can elicit appropriate actions.

The visit to the CSIR Fourth Paradigm Institute was an enlightening experience that provided a comprehensive understanding of the groundbreaking work being conducted in scientific research and innovation. Through in-depth presentations, facility tours, and interactions with leading researchers, students gained valuable insights into the institute's cutting-edge projects, state-of-the-art technologies, and the profound impact of CSIR's work on various industries and societal advancements.



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Event 3

Title Guest Talk

Date 05-11-2024

Time From : 11:00 AM To : 01.00 PM

Beneficiary 5th SEM CSE Students

Brief Description

Department of CSE organized a Guest Lecture on the topic “IT Solution Design and Delivery” for 5th semester students on 05/11/2024 at 11.00 AM to 01.00 PM. Resource person Mr. Sreenivas Govindappa, APAC Regional Service Manager, DXC Technology, Singapore, addressed the session. The resource person explained Importance of IT solution design and delivery, different delivery models with relevant examples. Fifth semester students were participated and got benefit from this.



NEWSLETTER - November 2024

Event 4

Title	IIC Talk
Date	06-11-2024
Time	From : 11:00 AM To : 01.00 PM
Beneficiary	3rd & 5th SEM CSE Students
Brief Description	

Department of CSE organized a Guest Talk on the Topic “ “ for 3rd and 5th semester Students on 06-11-2024 at 11:00 a.m. to 01:00 p.m. Resource person Ms. Srividya Puppala talks about My story- Motivational Session by Successful Innovators. The session aims to motivate the students towards innovations and to familiarize students with the need and scope of innovations from young minds. This motivational session aims to encourage teamwork, demonstrating how collaboration with others can enhance creativity and lead to successful outcomes. Participants were inspired by the real-life stories of the resource person knowing the insights and practical lessons provided by her. The interactive session of the speaker and the students motivated them to pursue their objectives, overcome hurdles, and strive harder toward them.



NEW HORIZON COLLEGE OF ENGINEERING
Department of Computer Science and Engineering | IIC

IIC talk

My story - Motivational Session by Successful Innovators

06 November 2024
11:00 AM - 01:00 PM
3rd & 5th Sem students
Falconry seminar hall

Ms. Srividya Puppala
Founder, MyStory, Delhi, India

Faculty Coordinator: Dr. Nirmala M.
Co-Chair: Dr. B. Rajalakshmi, Dr. Narayana Swamy Ramiah
Dr. R Mohan Das SO Convener
Dr. A Sujin Jose IQ President
Dr. Marjaneetha Principal



NEWSLETTER - November 2024

Event 5

Title	Alumni Talk
Date	07-11-2024
Time	From : 12:00 PM To : 01.00 PM
Beneficiary	5th SEM CSE Students
Brief Description	

The Department of CSE jointly with Alumni Association had organized an "Alumni Talk" on November 7, 2024, from 12 PM to 1 PM. The event's guest speaker was Mr. Pratyush Burman, a 2024 graduate who impressively scored 8.5 on the IELTS exam. Mr. Burman discussed the significance of planning and qualifying for higher studies, which offers numerous benefits, significantly enhancing professionals' capabilities and career prospects.

Key topics included methods to improve technical skills and techniques for adopting a holistic approach to engineering to excel in an international college and pursue higher studies with ease. Attendees engaged in interactive discussions with the speaker online, fostering a sense of confidence and encouraging ongoing mentorship and support.

More than 180 fifth-semester students from the CSE department attended and benefited from this event, which highlighted the importance of continuous learning and professional development.



Alumni Association | Department of Computer Science and Engineering

Alumni Talk

How To Plan and Qualify for Higher Studies

📅 07 November 2024
🕒 12:00 PM - 01:00 PM
👥 5th sem students

Faculty Coordinators
Ms. Deepthi Jha S
Ms. Priyavartini

Convenors
Dr. B. Rajalakshmi
Dr. Narayana Swamy Ramajiah

Online Link
<https://meet.google.com/uttj-brnb-edy>



Mr. Pratyush Burman
Alumni Batch: 2020-2024



NEWSLETTER - November 2024

Event 6

Title Social Outreach Program on the topic “Power of Manifestation”

Date 09-11-2024

Time From : 02:00 PM To : 04.50 PM

Beneficiary 3rd SEM CSE Students

Brief Description

From the department, Ms.Yogitha and Mr. Bhaskar S. V, along with 15 students from 3rd semester CSE went to the Jeevandeep Makkala Kendra “Adhyatma Vidya Peetham”, Carmelaram Rd, Carmelaram, Chikkabellandur, Bengaluru, to bring awareness on the topic “Power of Manifestation”. Total 15 students from age group 8 to 14 years attended the session and got benefit.





Department of Computer Science and Engineering [CSE]

Social Outreach Program

Power of Manifestation

09 November 2024
02:00 PM - 04:00 PM
3rd Sem students

Jeevan Deep Makkala Kendra,
Adhyatma Vidya Peetham,
Carmelaram Rd, Carmelaram,
Chikkabellandur, Bengaluru

Coordinators
Ms. Yogitha
Mr. Bhaskar S V

Organizers
Dr. B. Rajalakshmi
Dr. Hariprasanna Srinivasan



NEWSLETTER - November 2024

Event 7

Title	Parent Teacher Meeting
Date	09-11-2024
Time	From : 10::00 AM To : 12.00 PM
Beneficiary	3rd , 5th & 7th SEM CSE Students
Brief Description	

The Department of Computer Science and Engineering is organizing a Parent Teacher Meeting on 09-11-2024, from 10:00 AM to 12:00 PM, aimed at fostering effective communication between faculty members and the parents/guardians of students. This meeting will serve as a platform to discuss the academic performance, attendance, and overall development of students from the 3rd, 5th, and 7th semesters. Faculty members will provide insights into students' progress, address parental concerns, and share suggestions for improving academic outcomes. The active participation of parents is encouraged to support the holistic growth of students and strengthen the collaboration between home and institution.



NEWSLETTER - November 2024

Event 8

Title Alumni Talk

Date 15-11-2024

Time From : 10::00 AM To : 11.00 AM

Beneficiary 3rd SEM CSE Students

Brief Description

Department of CSE and alumni association organized "ALUMNI TALK" on 15 November 2024 from 10am to 11pm. The invited alumni speaker Event was Ms. Jessica Vareed, graduate of 2024 batch. She has cracked the IELTS exam with 7.5 marks. Alumni highlighted the significance to the topic Planning and Mastering Degree Abroad, which offers numerous benefits, significantly enhance professional's capabilities and career prospects. The key topics included methods to improve technical skills and Technique's for adopting a holistic approach to engineering to master the career to qualify into the international college and pursue higher studies at ease. Attendees engaged in interactive discussions, with the speaker online.



NEWSLETTER - November 2024

Event 9

Title

Expert Talk

Date

18-11-2024

Time

From : 02:00 PM To : 04.00 PM

Beneficiary

5th SEM CSE Students

Brief Description

Department of CSE organized an Expert talk on the topic “Implementation of Algorithms” for 5th semester students on 18/11/2024 at 02.00 PM to 04.00 PM. Resource person Mr. Shreyamshu B. K, MD and CEO, Magnifying Glass Academy, Bangalore addressed the session. The resource person explained what is an algorithm, finiteness, space and time complexity with relevant examples. Fifth semester students were participated and got benefit from this.



NEWSLETTER - November 2024

Event 10

Title Guest talk on : Setting up for Success

Date 19-11-2024

Time From : 02:00 PM To : 04:00 PM

Beneficiary 5th SEM CSE Students

Brief Description

Mr. Rakesh KP. General Manager, Maxtouch Computers. Dubai delivered guest talk on Setting up for Success. Setting up for success as an engineering student requires a combination of effective strategies, discipline, and mindset. Here's a roadmap to help engineering students achieve their goals

Engineering is about solving real-world problems, so continuously practice problems and exercises to reinforce learning. Students often juggle multiple assignments, projects, and exams. Use planners or digital tools like Trello or Notion to organize tasks by deadlines and importance. Hands-on experience is invaluable. Seek internships, co-op programs, or research opportunities to apply what you've learned in real-world settings.



NEWSLETTER - November 2024

Event 11

Title	Computer Society of India Student Chapter inauguration
Date	20-11-2024
Time	From: 11:00 AM To : 12.00 PM
Beneficiary	3rd , 5th , 7th SEM CSE, ISE, MCA, AIML & DS Students
Brief Description	

The Department of Computer Science and Engineering successfully organized the inauguration of the Computer Society of India (CSI) Student Chapter on 20th November 2024 from 11:00 AM to 12:00 PM. The event was attended by enthusiastic students from the 3rd, 5th, and 7th semesters of various programs including CSE, ISE, MCA, AIML, and Data Science.

The session was graced by the presence of Ms. Arpitha, Project Manager at Intact Green Services, who was invited as the Chief Guest. In her address, she shared valuable insights into current industry trends, the significance of technical communities like CSI, and the role they play in enhancing students' skills and employability.

The inauguration marked the beginning of a vibrant platform for students to actively participate in technical activities such as seminars, workshops, coding events, and research-oriented discussions under the CSI banner. The event concluded with a vote of thanks and a strong commitment to drive continuous learning and innovation through the CSI Student Chapter.



CSI Inaugural function held on 20th November 2024.



NEWSLETTER - November 2024

Event 12

Title	Guest Talk
Date	20-11-2024
Time	From: 11:00 AM To : 01.00 PM
Beneficiary	3rd SEM CSE Students

Brief Description

Department of CSE organized an Guest talk on the topic “Applied Machine Learning” for 3rd semester students on 21/11/2024 at 11.00 AM to 01.00 PM. Resource person Dr. Jyoti Prakash Singh, Associate Professor, National Institute of Technology Patna, addressed the session. The resource person explained what is Machine Learning, Applications, Key types, and basic Machine Learning workflow with relevant examples. Third semester students were participated and got benefit from this.



NEWSLETTER - November 2024

Event 13

Title

Social Outreach Program on the topic "Concepts of Computer science in everyday life"

Date

23-11-2024

Time

From: 02:00 PM To : 04.50 PM

Beneficiary

5th SEM CSE Students

Brief Description

Ms. Yogitha and Mr. Bhaskar S.V., along with 21 fifth-semester CSE students, visited Makala Dhama in Bettakote, Devanahalli, Bengaluru, to conduct a session titled "Concepts of Computer Science in Everyday Life." The session was attended by 80 students aged 8 to 14, who greatly benefited from the program.

The Social Outreach Program aimed to raise awareness about the significant role of computer science in our daily lives. It focused on educating students about foundational concepts such as algorithms, programming, data structures, and artificial intelligence, demonstrating how these principles are integrated into everyday technology. Through interactive activities, participants learned how computer science powers devices like smartphones, social media platforms, and household appliances. The program also highlighted the practical applications of computer science in various sectors, including healthcare, transportation, and entertainment, helping students gain a deeper understanding of the digital world and inspiring them to explore careers in technology.

The session featured engaging games and concluded with a prize distribution ceremony to encourage participation and recognize the students' enthusiasm and efforts.



NEWSLETTER - November 2024

Event 14

Title	Expert Talk
Date	25-11-2024
Time	From: 11:00 AM To : 01.00 PM
Beneficiary	3rd SEM CSE Students

Brief Description

Department of CSE organized an Expert talk on the topic “Ethical Hacking and Cyber Security” for 3rd semester students on 25/11/2024 at 11.00 AM to 01.00 PM. Resource person Mr. Santosh Chaluvadi, Founder & CEO, Supraja Technologies, Vijayawada addressed the session. The resource person explained about Juice Jacking, USB data blocker, what are the efficient way to set your password and importance of security with relevant examples. The session even included a Question-and-answer session. Third semester students were participated and got benefit from this.



NEWSLETTER - December 2024

Event 1

Title

Future ready: Preparing for a world of Opportunities through Higher education

Date

06-12-2024

Time

From: 12:00 PM To : 01.00 PM

Beneficiary

3rd SEM CSE Students

Brief Description

On December 6th, 2024, the Department of Computer Science and Engineering (CSE) hosted an insightful Expert Lecture titled "Future Ready: Preparing for a World of Opportunities through Higher Education" for 3rd-semester CSE students. The session, held from 12:00 PM to 1:00 PM, featured Ms. Arpita Gado, an MSc graduate from King's College, London, as the esteemed resource person.

Ms. Gado shared her extensive knowledge and experience, providing a comprehensive overview of higher education opportunities in London and beyond. She discussed the various courses available, emphasizing the diverse academic paths students can pursue. The lecture also highlighted the significance of part-time jobs in gaining practical experience and how internships can be instrumental in building a solid foundation for future careers.

The session aimed to equip students with the necessary information to make informed decisions about their educational and professional journeys. Ms. Gado provided valuable insights into navigating the higher education landscape, selecting courses that align with career goals, and the benefits of gaining work experience alongside academic pursuits.

Approximately 70 students attended the lecture, actively participating and benefiting from the wealth of knowledge shared. The engaging and interactive session left students inspired and better prepared to seize the numerous opportunities available through higher education. Overall, the expert talk was a resounding success, reflecting the Department's dedication to offering students guidance and exposure to global educational trends.



NEWSLETTER - December 2024

Event 2

Title	Workshop on “Advanced CSS (LESS and SASS) and jQuery”
Date	09-12-2024
Time	From: 09:30 AM To : 04.30 PM
Beneficiary	3rd SEM CSE Students
Brief Description	

The Department of Computer Science and Engineering organized a one-day workshop on “Advanced CSS (LESS and SASS) and jQuery” on 09/12/2024, focusing on enhancing participants’ skills in modern web development. The workshop covered CSS preprocessors like LESS and SASS, which offer advanced features such as variables, nested rules, and mixins for writing efficient, maintainable stylesheets, and jQuery, a JavaScript library for simplifying client-side scripting with features like DOM manipulation, event handling, AJAX calls, and animations. Through hands-on sessions, participants learned to create responsive web layouts, dynamic navigation menus, and reusable components while ensuring cross-browser compatibility and code modularity. The workshop also highlighted best practices for integrating preprocessors with existing frameworks and optimizing performance. Participants explored debugging tools and real-time collaboration techniques to streamline their workflow.

This interactive session empowered attendees to leverage these tools in real-world projects, improving productivity and design quality in web development.



The poster is for a workshop titled "Advanced CSS (LESS and SASS) and jQuery" organized by the Department of Computer Science and Engineering (CSE) at New Horizon College of Engineering. It features a portrait of Mr. Arunn Mahalingam, the Technical Project Manager. The event is scheduled for 09 December 2024, from 09:30 AM to 04:30 PM, for 3rd Sem Students in CSE Lab 1. Faculty coordinators are Ms. Florence G. and Ms. Nayana Kumar. Guest coordinators are Dr. B. Rajalakshmi and Dr. Narayana Swamy Ramalah.

NEW HORIZON
COLLEGE OF ENGINEERING

Department of Computer Science and Engineering | CSE

Workshop

Advanced CSS (LESS and SASS) and jQuery

09 December 2024
09:30 AM - 04:30 PM
3rd Sem Students
CSE Lab 1

Faculty Coordinators
Ms. Florence G.
Ms. Nayana Kumar

Guest Coordinators
Dr. B. Rajalakshmi
Dr. Narayana Swamy Ramalah

MR. ARUNN MAHALINGAM
Technical Project Manager
TCS



NEWSLETTER - December 2024

Event 3

Title	Mini Project Competition
Date	09-12-2024
Time	From: 09:30 AM To : 10.30 AM
Beneficiary	5th SEM CSE Students
Brief Description	

Dept of CSE, in association with Computer Society of India and Institution's Innovation Council, organized a one-day Mini Competition (09-12-24) for 5th semester students. The accomplishments of our 5th-semester students in the Mini Project competition of December 2024, under the jury of Ms. Ganavi R and Mr. V Ravi Raj is an Associate Software Engineer @ Caelon Global Solutions, Bengaluru, signify a remarkable advancement in our pursuit of excellence. With extensive experience exceeding 2 plus years in enterprise and IT architecture, their leadership and dedication to social initiatives have profoundly enriched our academic community. In today's digital realm, coding plays a pivotal role in efficient problem-solving, with Python's adaptability and robust database infrastructure serving as a sturdy foundation for innovation. Out of the 40 initially shortlisted students, 34 presented their project and unwavering dedication by actively participating in the competition. We extend our heartfelt appreciation to Ms. Ganavi R and Mr. V Ravi Raj for their invaluable expertise as a distinguished member of our esteemed jury, setting the stage for ongoing success and innovation. The exceptional achievements of the winners, Sriram K N & Aditya Kumar, Mahi Srivastava & Nivetha Madhavan and B Veena & Dhanushree S who secured the first, second, and third prizes respectively, not only establish a new standard but also underscore the importance of continuous innovation and commitment to excellence.



NEWSLETTER - December 2024

Event 4

Title

Workshop on Advanced Database (NoSQL, MemSQL and Teradata)

Date

10-12-2024

Time

From: 09:30 AM To : 04.30 PM

Beneficiary

5th SEM CSE Students

Brief Description

The Department of Computer Science and Engineering organized a one-day workshop on “Advanced Databases (NoSQL, MemSQL, and Teradata)” on 10/12/2024, focusing on enhancing participants' skills in managing large amounts of data. The workshop covered read/write benchmarks on NoSQL (MongoDB vs. Redis) and compared them with MemSQL for transactional workloads, as well as compared Teradata's performance for analytical queries against MemSQL for real-time analytics. It also examined the data modelling approaches in NoSQL, MemSQL, and Teradata (document-based vs. relational vs. hybrid), simulated large data loads on each system (e.g., horizontal scaling on NoSQL vs. vertical scaling on Teradata), and assessed how each database performs under high concurrency and large volumes of data.

Through hands-on sessions, participants learned to identify which database technology would be most suitable for different scenarios (e.g., real-time analytics vs. big data warehousing). The workshop also highlighted best practices for further learning and a deeper dive into database administration, performance tuning, and real-time analytics. Participants explored tools such as SQL clients (e.g., DBeaver, MySQL Workbench), command-line tools, and real-time collaboration techniques to streamline their workflow. This hands-on workshop provided participants with practical experience with each of these advanced database systems and helped them understand the unique strengths and limitations of NoSQL, MemSQL, and Teradata.



NEWSLETTER - December 2024

Event 5

Title Alumni Talk

Date 20-12-2024

Time From: 10:30 AM To : 11.30 AM

Beneficiary 3rd SEM CSE Students

Brief Description

On December 20, 2024, the Department of CSE and the Alumni Association organized an "ALUMNI TALK" from 10:30 AM to 11:30 AM. The event featured Mr. Gagan P, an Associate Software Engineer at Eurofins IT Solutions Pvt Ltd, as the invited speaker. The talk, titled "Shaping Your Career," highlighted various methods to enhance professional capabilities and career prospects. Key topics included improving technical skills and adopting a holistic approach to engineering for career development.

Attendees participated in interactive discussions with Mr. Gagan P, who joined online, fostering a sense of confidence among the students. The event encouraged ongoing mentorship and support, with over 40 third-semester CSE students attending and benefiting from the session.



Chief Editor

Dr. B. Rajalakshmi

Professor and Head/CSE

Associate Editor

Dr. G. Vijayasekaran

Associate Professor/CSE

Student Editors

Hema Pushpa J

6th Semester CSE

Geetha Shree J M

6th Semester CSE

Ring Road, Bellandur Post, Near Marathahalli
Bengaluru, India pin-560103

www.newhorizonindia.edu

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