

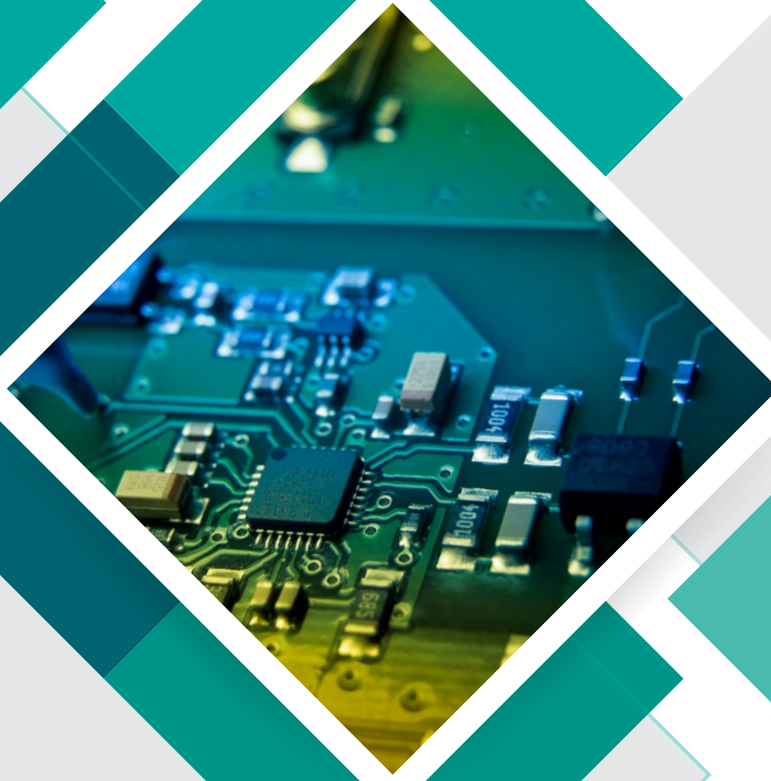


# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## NEWS LETTER



ACADEMIC YEAR: 2022-2023

AUGUST 2022 - JANUARY 2023

VOLUME 6, ISSUE 1

# COMPUTER SCIENCE AND ENGINEERING





**Dr. B. Rajalakshmi**  
**HOD-CSE.**

Dear Readers,

We are more than enthralled to announce the release of our Newsletter for the Academic Year 2022-2023, Volume-6, Issue-1.

“Little Drops of Water Make the Mighty Ocean”, a saying we witness coming true each day. Our newsletter is just a droplet in the ocean that has already begun to form. This semester has been a successful one, a fact that will get lighter once you read this newsletter. I would like to heartily thank all the students and faculty for putting their hearts and soul into this newsletter. The editorial team deserves a special mention for their immense hard work! This newsletter will throw light on the events held by the Department of Computer Science and Engineering, achievements and the extra-curricular, co-curricular and academic success of the students and the faculty.

## **Dr .Manjunatha** **Principal**



Dear All,

Technology has been growing so exponentially over recent years, there has been a steady increase in demand for bright graduates to come in and help to transform areas ranging from data infrastructure to cyber security. It is important to stay up to date with the latest trends in computer science research, to make an informed choice about where to head next. I am happy to note that the Department of Computer Science and Engineering is bringing out a newsletter. I am sure that this newsletter will bring value to all the students and readers who are interested in the area of Computer Science in the form of the latest developments made in technology. I wish, the department all the best for the publication of the Newsletter and in all their future endeavour.

## **Dr. R. J. Anandhi** **Professor & Dean-Academics**



Technology is changing the way people think and it 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 an immense pleasure that the Department of Computer Science and engineering is releasing the Newsletter for the year 2022-2023. 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-6, Issue-1) provides all the stakeholders 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.

## Event - 1

Newsletter-August 2022

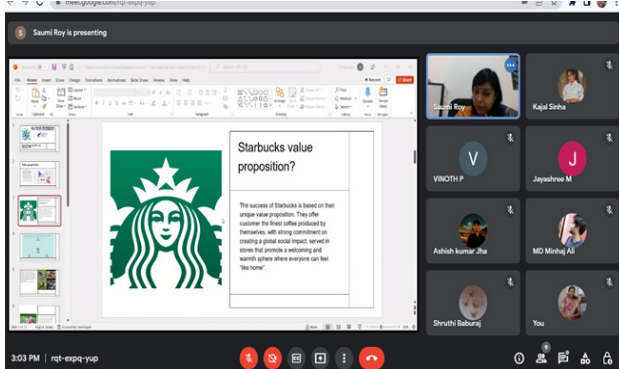
# VALUE PROPOSITION FIT AND BUSINESS FIT

Department of Computer Science and Engineering

Date | 22-08-2022

Time | 3.00 PM to 4.00 PM

Beneficiary | 4th Sem Students of CSE



The Department of Computer Science and Engineering organized a session on “Value Proposition fit and Business fit” for the 4th semester CSE students. The speaker of the event was Ms. Soumi Roy, Assistant Professor, Department of Management Studies, New Horizon College of Engineering. The various topics on innovations were discussed along with the creation of different ideas. Numerous examples were explained and a walkthrough of proposition and business fit were addressed. Around 25 students participated and benefitted from the session.

## Event - 1

Newsletter-September 2022

# ED-OVERSEAS OPPORTUNITIES

Department of Computer Science and Engineering

Date | 15-09-2022

Time | 11.10 AM to 12.10 PM

Beneficiary | 7th Sem CSE Students



The Department of CSE organized an Expert Lecture on “Ed-Overseas Opportunities” for 7th Sem CSE students on 15/09/2022 from 11.10 AM to 12.10 PM. Resource Person Mr. Binoy Sarkar, Assistant Manager, IDP, Bangalore, addressed the session. Key topics were higher education opportunities in the USA, UK, CANADA, and other countries, choice of courses, types of universities, part-time jobs, cost of living, the importance of internships, etc. Around 50 students participated and benefitted from this expert talk.

## Event - 2

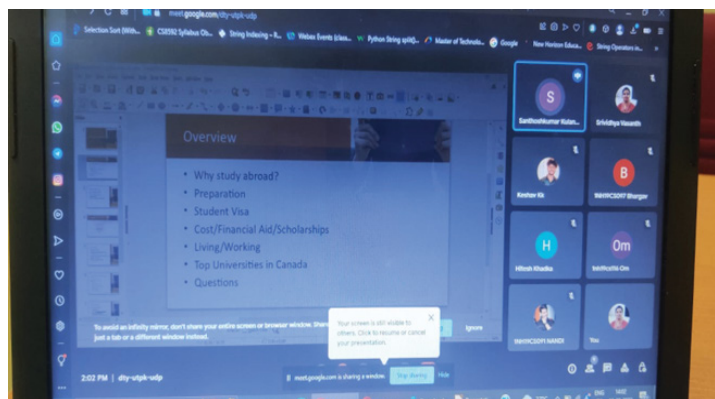
# HIGHER EDUCATION OPPORTUNITIES IN CANADA

Department of Computer Science and Engineering

Date | 16-09-2022

Time | 2.00 PM to 3.00 PM

Beneficiary | 7th Sem CSE students



The Department of Computer Science and Engineering organized an Expert Lecture on “Higher Education Opportunities in CANADA” for 7th Sem CSE students on 16/09/2022 from 02.00 PM to 03.00 PM. Resource Person Mr. Santhosh Kumar Kulandaivel, Independent Consultant in Design and Engineering, CANADA addressed the session. Key topics were higher education opportunities in CANADA and other countries, choice of courses, types of universities, part-time jobs, cost of living, the significance of internships, etc. Around 40 students participated and benefited from this expert talk.

## Event 3:

# ALUMNI TALK

Department of Computer Science and Engineering

Date | 23-09-2022

Time | 10.00 AM to 11.00 AM

Beneficiary | 7th Sem CSE students



The Department of Computer Science and Engineering in association with the CSI Student chapter organized “ALUMNI TALK” on 23rd September 2022 from 10:00 AM to 11:00 AM. The invited alumni speaker for the event was Mr. Kuwar Saurya Keshav, a graduate of the 2020 batch and a board member of the NHCE Alumni Association. He is currently working as Product Partnership Manager at UrbanPiper. The title of the event was “SUPPORT OF ALUMNI IN CAREER DEVELOPMENT”. He addressed 7th semester CSE students and spoke about his industry experiences and the soft skills required for career development. A total of 70 final-year CSE students attended and benefited from this event.

# LEADERSHIP LANEWAY: EXPECTATIONS FROM THE CORPORATE (a special webinar for the 2023 batch placement selects)

Department of Computer Science and Engineering

Date | 27-09-2022

Time | 10.00 AM to 11.00 AM

Beneficiary | 7th Sem CSE Placed Students



The Department of Computer Science and Engineering in association with the Computer Society of India (CSI), Student Chapter organized a special webinar program for the 2023 batch placement selects, in virtual mode. The invited alumni speaker for the event was Ms. A Baagya Lakshmi, a graduate of the 2021 batch. She is currently working as a Software Application Developer at Intel Pvt Ltd. The title of the event was “Leadership Laneway: Expectations from the Corporate”. She addressed all the 217 placed students (as on 27.09.22) and also emphasized the students with the following points: acceptance of the transition from student life to corporate life, excitement due to being in a new location, new environment and new culture, time management, task management and success mantras to be followed. All the placed students of CSE department have attended and benefited from this event.

## Event 1:

Newsletter-October 2022

# ADVANCED PYTHON PROGRAMMING

Department of Computer Science and Engineering

Date | 10-10-2022

Time | 3.00 PM to 5.00 PM

Beneficiary | 5th Sem CSE Students



The Department of Computer Science and Engineering organized an Expert lecture on the topic “Advanced Python Programming” for 5th semester students on 10/10/2022 from 3.00 PM to 5.00 PM. The Resource person Mr.Priyanshu Verna, Cloud Engineer, Eduprwa, Bangalore addressed the session. Key topics of the event were the importance of programming language, real-time examples, companies using Python programs, and practical approaches to solve using Jupyter Notebook. Total 60 participants benefited from the event.

## RESEARCH AND DEVELOPMENT: A FUTURE TALK

Department of Computer Science and Engineering

Date | 13-10-2022

Time | 11.00 AM to 1.00 PM

Beneficiary | 5th and 7th Sem CSE Students



The Department of Computer Science and Engineering organized an event “Research and Development: A Future Talk” for 5th semester and 7th-semester students on 13/10/2022 from 11.00 AM to 1.00 PM. The Resource person was Mr. Ankit Keshav, Senior Software Engineer at Samsung. Key topics of the event were: the speaker provided names of a few websites to get international internships and discussed the method of writing the research paper along with emphasizing the importance of Google Scholar. He suggested focusing on research papers on the problem statement and the solution for the same. He also addressed the importance of H-index and Citation. A total of 102 students actively participated and benefited from the session.

### Event 3:

## WHO CAN BECOME AN ENTREPRENEUR

Department of Computer Science and Engineering

Date | 21-10-2022

Time | 10.00 AM to 11.00 AM

Beneficiary | 5th Sem CSE Students



The Department of Computer Science and Engineering organized the “Entrepreneurship Awareness Program” for 5th Semester students on 21/10/2022 from 10.00 AM to 11.00 AM. Resource person Dr. Malini Manoharan, Co-Founder and Chief Operating Officer, DeepKnomics Pvt limited, Bangalore. Key topics of the event were: who can become an entrepreneur and how to work with ideas to start a start-up company with the support of ED Cell of NHCE. A total of 70 students participated and benefited from the session



## Event - 4

# MACHINE LEARNING ALGORITHMS-HANDS ON

Department of Computer Science and Engineering

Date | 21-10-2022

Time | 10.00 AM to 12.00 PM

Beneficiary | 7th Sem CSE – Placed Students



The Department of Computer Science and Engineering organized an Expert lecture on the topic "Machine Learning Algorithms-Hands on" for 7th-semester students on 21/10/2022 from 10.00 AM to 12.00 PM. Resource person Mr. Priyanshu Verma, Cloud Engineer, Eduprwa, Bangalore addressed the session. Key topics of the event were: the importance of Python programming in Machine Learning and the practical approach to solve real-world problems using tools like Spyder, Jupyter Notebook, etc. Some packages of Machine learning such as Pandas, Sklearn, and Numpy were explained. A total of 60 participants benefited from the event.

## Event 5:

# ALUMNI TALK

Department of Computer Science and Engineering

Date | 27-10-2022

Time | 11.00 AM to 12.00 PM

Beneficiary | 5th Sem CSE Students



Department of Computer Science and Engineering in association with CSI Student chapter organized "ALUMNI TALK" on 27th October 2022 from 11:00 AM to 12:00 PM. The invited alumni speaker for the event was Ms. Deepthi S, a graduate of the 2021 batch. She is working as Software Engineer at Oracle Cerner. The title of the event was "FULL STACK WEB DEVELOPMENT". She addressed the 5th semester CSE students. She spoke about Full stack development, the scope of the field, career prospects, and skills required for being a full-stack developer. She spoke about the preparation for the placements and motivated the students and guided them on how to prepare for placements. The session was interactive, and students were curious to know more about cracking the best opportunity given to them. More than 70 pre-final year CSE students have attended and benefited from this event.

## Event - 6:

# WORKSHOP ON DATA DIVE: DATA ANALYSIS USING HADOOP AND HIVE

Department of Computer Science and Engineering

Date | 31-10-2022

Time | 9.00 AM to 1.00 PM

Beneficiary | 5th Sem CSE Students

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The session started with the welcome speech by Dr. Rachana P, Associate Professor, Department of CSE. Mr. Gagan P and Ms. Vanshika Sai from the 7th semester, Department of CSE conducted the workshop on Data Analysis using Hadoop and Hive used in real-time scenarios. Hive allows users to read, write, and manage petabytes of data using SQL. Hive is built on top of Apache Hadoop, which an open-source framework is used to efficiently store and process large datasets. As a result, Hive is closely integrated with Hadoop, and is designed to work quickly on petabytes of data. The top 30 students of the 5th semester attended the session at HP-Vertica Lab. The students were able to discuss their queries with the resource person.

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## Event 7:

# AWS HANDS ON PROJECT DEPLOYMENT ON CLOUD

Department of Computer Science and Engineering

Date | 31.10.2022

Time | 10.00 AM to 12.00 PM

Beneficiary | 5th Sem CSE Students

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The Department of CSE organized an Expert lecture on the topic “ Machine Learning Algorithms-Hands on” for 5th semester students on 31/10/2022 from 10.00 AM to 12.00 PM. Resource person Mr. Gurudatt, Bigdata Developer, Eduprwa, Bangalore addressed the session. Key topics of the event were: AWS account Creation, instances of EC2, Auto scaling, Security Groups, and creation of VPN, DNS servers, and DB Servers taught in the session. Total of 85 participants benefited from the Event.

## Event - 1:

Newsletter-November 2022

# MOTIVATIONAL TALK ON WAYS AND MEANS TO DEAL WITH STRESS

Department of Computer Science and Engineering

Date | 07-11-2022

Time | 3.00 PM to 4.30 PM

Beneficiary | 5th and 7th Sem CSE students



The Department of CSE organized a motivational talk on the topic “Ways and Means to Deal with Stress” for 3rd, 5th and 7th semester students. Resource person Dr. (WgCdr) A. Nagasubramaniam, Facility Director, Fortis Hospital, Bangalore addressed the session. The resource person explained about stress, the 10 major stressful events, the effects of stress on performance, how stress is inversely proportional to interest, stages of stress and tips to manage stress with relevant examples. A total of 102 students participated and benefited from this event.

## Event 2:

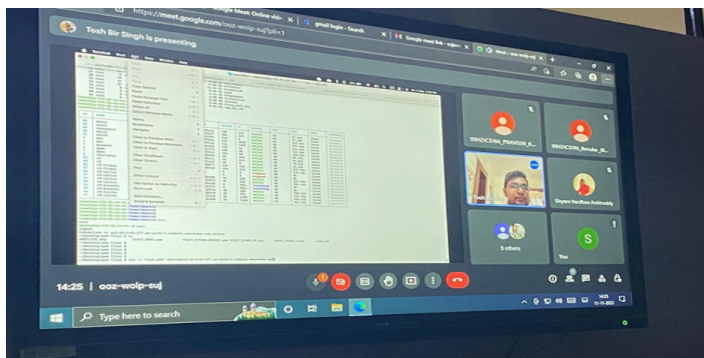
# ALUMNI TALK

Department of Computer Science and Engineering

Date | 11-11-2022

Time | 2.00 PM to 3.00 PM

Beneficiary | 3rd Sem CSE students



The Department of Computer Science and Engineering in association with CSI Student chapter organized an “Alumni Talk”. The alumni speaker for the event was Mr. Tosh Bir Singh, a graduate of the 2020 batch. He is currently working as Senior Software Engineer at Visit Health Pvt Ltd. He addressed the 3rd semester CSE students on “Importance of Linux in Industry”. He spoke about the usage of Linux in industries, the installation of Linux into the system, the benefits of having Linux as the OS, and the career prospects of being skilled in Linux programming. The speaker also motivated the students by giving insight on how to prepare for academics as well as the skills that they must develop for the placements. The session was very interactive, and students wanted to know more about cracking the best opportunity given to them. More than 100 2nd year students of CSE department attended and benefited from this event.

### Event - 3:

## HOW TO BE INDUSTRY READY - A SPECIAL PROGRAM FOR PLACEMENT SELECTS 2022-23 SELECTS(2019-2023)

Department of Computer Science and Engineering

Date | 15-11-2022

Time | 11.00 AM to 12.30 PM

Beneficiary | Placed Students



The Department of Computer Science & Engineering in association with the Computer Society of India (CSI) conducted the event “How To Be Industry Ready”. The speaker for the event was Mr. Sakthiganesh Chandrkasan, Senior Technology Architect, Infosys, Bangalore. He addressed all the 242 placed students (as of 15.11.22). The resource person emphasized the following points to students: the importance of communication, soft skills, professionalism, accountability, attitude and adaptability. General behavioral traits, interpersonal skills, critical thinking and problem-solving skills were highlighted during the event.

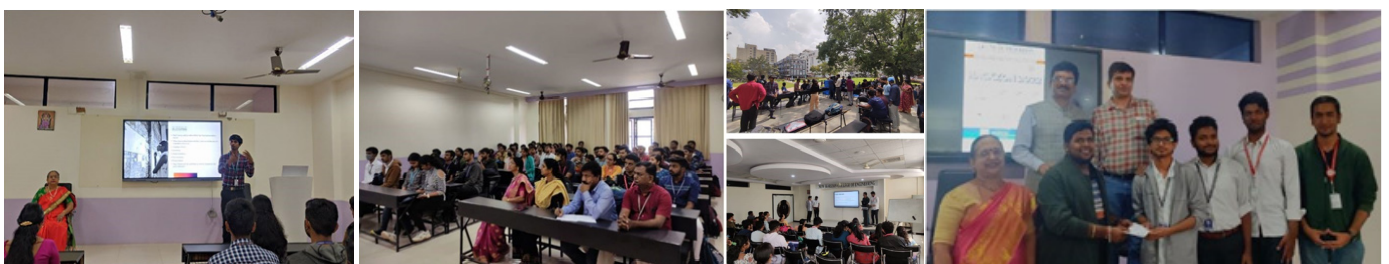
### Event 4:

## HACKATHON – 2022

Department of Computer Science and Engineering

Date | 16-11-2022 to 17-11-2022

Time | 9.00 AM to 4.00 PM



“Smart Hackathon 2022” is a hybrid Hackathon conducted by New Horizon College of Engineering in association with the Computer Society of India for students to experience the process of generating solutions for real world problems and discovering hacks to implement them. The motive is to promote innovative thinking, enhance employability skills, help students to understand the true meaning of a hackathon and its importance in the present situation. Guiding them through the process with various guest lectures, competitions, and mentoring to boost their values by adding new experiences to their resume and accentuating their programming and hacking skills through this competition.

## Event - 5:

# KUBERNETES AND DOCKERS

Department of Computer Science and Engineering

Date | 17-11-2022

Time | 10.00 AM to 1200 PM

Beneficiary | 5th Sem Students

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The Department of CSE organized an expert lecture on the topic “Kubernetes and Dockers-Hands on” for 5th semester students. Resource person Mr.Gurudatt, Big Data Developer, Eduprwa, Bangalore addressed the session. Key topics of the event were: Kubernetes is a open-source orchestration software that provides an API to control how and where the containers will run. It allows to run Docker containers and workloads which helps to tackle some of the operating complexities when it is scaling to multiple containers and deploying across multiple servers. A total of 85 participants benefited from the event.

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## Event - 6:

# WORKSHOP ON DATA ANALYTICS USING PYTHON

Department of Computer Science and Engineering

Date | 21-11-2022

Time | 11.00 AM to 4.30 PM

Beneficiary | 7th Sem Students

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A workshop on “Data Analytics using Python” was organized by the Department of CSE in association with the Industry Institute Interaction cell (Department of HRD) to 7th Semester students. Mr. Prinshu Varma, Trainer, Prwatech Pvt. Ltd. conducted the workshop on Data Analytics using Python in real-time scenarios. A total of 25 students attended the session at HP-Vertica Lab and benefitted from the event.

## Event 7:

# TECH HUSTLE

Department of Computer Science and Engineering

Date | 21-11-2022

Time | 9.00 AM to 4.00 PM



The event “Tech Hustle” was hosted on 21/11/2022. It was a tech event where the participants had to showcase their knowledge in various technical skills which includes aptitude, coding and logical questions and tech trivia.

The event was conducted in 2 rounds namely Tech-pardy and Earn it to Ace it. There were totally 170 participants event who took part as a team of four. For the first round, each team got to decide the domain of the question and choose the difficulty of the question based on which points were awarded. 11 teams from the first round got qualified to the second round among the total of 40 teams. For the second round, it was a surprise technical treasure hunt in which each team was given clues and could solve the clue cards in any order of preference. The first three teams to earn 5 points and solve the final problem were declared as the winners.

The event went smoothly and created an environment of competition. The event was interactive and all the participants really enjoyed their time, learned art of solving problems and got along with the vast world of advancing technologies.

## Event - 8:

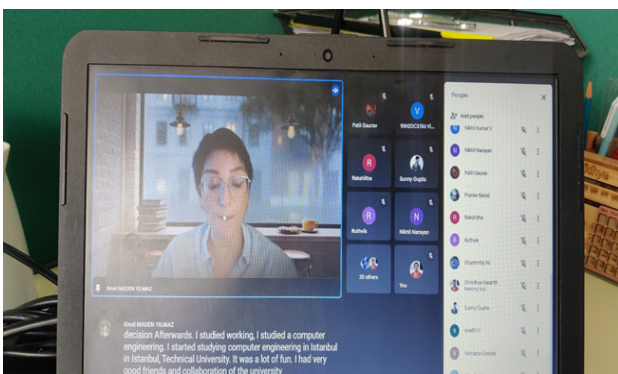
# HIGHER EDUCATION OPPORTUNITIES IN EUROPEAN COUNTRIES

Department of Computer Science and Engineering

Date | 23-11-2022

Time | 10.30 AM to 11.30 AM

Beneficiary | 5th Sem Students



The Department of Computer Science and Engineering organized an Expert Lecture on “Higher Education Opportunities in European Countries” for 5th Sem CSE students. Resource Person Dr. Emel Maden Yilmaz, Unit Manager, Mercedes-Benz, Turkey addressed the session. Key topics were: higher education opportunities in European countries, courses available, different types of universities, availability of part time jobs, cost of living, scope of internships, etc. Around 60 students participated and benefited from this expert talk.

## Event 9:

# PROBLEM SOLVING AND IDEATION WORKSHOP

Department of Computer Science and Engineering

Date | 28-11-2022

Time | 2.00 PM to 3.00 PM

Beneficiary | 5th Sem CSE Students

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The Department of CSE organized a session on the topic “Problem-solving and Ideation workshop” for 5th-semester students. Resource person Dr. Dhanalaksmi R V, Associate Professor, Bangalore addressed the session. The resource person explained about problem solving, 10 major elements in problem-solving and explained some live examples along with its working. The importance of problem-solving in business environment was also addressed. A total of 51 students participated and benefited from the event.

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## Event - 1:

Newsletter-December 2022

# WORKSHOP ON “BLOCKCHAIN AND ITS APPLICATIONS”

Department of Computer Science and Engineering

Date | 01-12-2022

Time | 10.00 AM to 4.00 PM

Beneficiary | 5th Sem CSE Students

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The Department of Computer Science and Engineering organized a “Workshop on Blockchain and its Applications” for 5th semester students. This workshop was intended to fill the technical gap between industrial technical requirements and the academic curriculum. The department always tries to fill this gap by giving awareness to the students about recent technological changes in the IT industry. The workshop was graced with experts Dr. Gururaj H L Associate Professor, IndiaClouds - Community Leader (SMIEEE and Member ACM & CRSI), Department of Information Technology, Manipal Institute of Technology, Bengaluru. A total of 40 Students attended and benefitted from this event.

## Event 2:

# WORKSHOP ON DATA ANALYTICS

Department of Computer Science and Engineering

Date | 23-12-2022

Time | 10.00 AM to 4.30 PM

Beneficiary | 3rd Sem CSE Students

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The Department of Computer Science and Engineering organized one day workshop on “Data Analytics “on 23/12/2022. Data analytics is the science of analyzing raw data to make conclusions about the information. The resource person of the workshop was Mr. Ramnath Iyer, Founder-Director, ThrottlePAD2.0. The entire workshop focussed on important aspects of Data Analytics. Around 37 participants took part and benefitted from the workshop.

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## Event - 3:

# EXTENSION PROGRAM ON THE TOPIC “MOBILE APPLICATION DEVELOPMENT”, NEW HORIZON SCHOOL, BHEEMAKANAHALLI, HOSAKOTE, BANGALORE.

Department of Computer Science and Engineering

Date | 27-12-2022

Time | 10.00 AM to 2.00 PM

Beneficiary | Class 9 and 10 Students

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From the Department of Computer Science and Engineering, Ms. Yogitha and Mr. Geluvaraj B went to New Horizon School, Bheemakanahalli, Hosakote, Bangalore, along with 30 students from the CSE department to bring awareness about Mobile Application Development. A total of 55 students from 9th and 10th standard attended the session and benefitted from this program.



Event 1:

Newsletter-January 2023

## 2 DAY NATIONAL LEVEL INTERCOLLEGIATE HACKATHON

Department of Computer Science and Engineering

Date | 05-01-2023

Time | 10.00 AM to 4.00 PM



The Department of Computer Science and Engineering conducted Smart Hackathon 2023 in association with the Computer Society of India for the students to gain experience in the process of generating software solutions to real-world problems and implementation of hacks to crack the software problems. It helped students to equip their knowledge on the importance of hackathons in the current IT industry. The students were actively involved and participated in the two-day event and the winners were awarded cash prizes.

Event - 2:

## MINI PROJECT COMPETITION

Department of Computer Science and Engineering

Date | 14-01-2023

Time | 11.00 AM to 4.30 PM

Beneficiary | 5th Sem CSE Students



The Department of Computer Science and Engineering organized a “Mini Project Competition” for 5th Semester Students, in association with VTU CSI and IIC to enhance the employability skills of the students. The jury member was Mr. Krishnakumara G P, Senior Engineer, LG Soft India Pvt. Ltd. The shortlisted projects were evaluated by the external/internal jury and the top 3 best projects were recognized.

Mini project competition winners:

1. Mr. Aman Kuma (5A) - Lifetime of a building,
2. Mr. Nischith(5B) - iDoc
3. Mr. Rakshith(5D) - Audio calci

Event 3:

## MINI PROJECT COMPETITION

Department of Computer Science and Engineering

Date | 20-01-2023

Time | 10.30 AM to 12.30 PM

Beneficiary | 3rd Sem CSE Students



The Department of Computer Science and Engineering organized a Mini Project competition for 3rd Semester Students, in association with VTU CSI and IIC to enhance the employability skills of the students. The jury member was Mr. Shail Maniar, Co-Founder, and CDO Deskfactors Inc. Bengaluru. The shortlisted top 20 projects were evaluated by the external/internal jury and the top 3 best projects were recognized.

Mini project competition Winners:

1. Mr. Ganesh Dagadi (3B)-Traffic Optimization Algorithm
2. Mr. Dave Joseph Pinto (3B) -Advanced Fire Alarm System
3. Mr. Aritra Acharya( 3A)-Sorting Visualizer

## **Chief Editor**

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