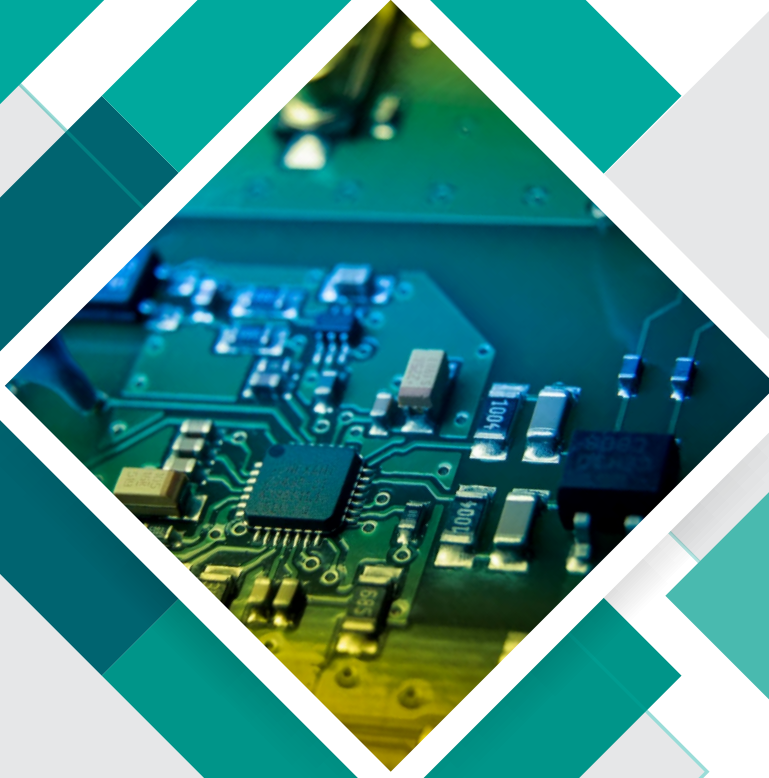# NEW HORIZON
COLLEGE OF ENGINEERING

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

NEWSLETTER

COMPUTER SOCIETY OF INDIA
ESTD. 1965
सर्वे भवन्तु सुखिनः

ACADEMIC YEAR: 2022-2023

FEBRUARY 2023 - JULY 2023

VOLUME 6, ISSUE 2

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-2.

"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 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 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-2 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-February 2023

COMPREHENSIVE TRAINING POLICIES AND MANDATORY COURSES

Department of Computer Science and Engineering

Date | 02-02-2023   Beneficiary | All the Department Faculty Members

National Initiative for Technical Teachers Training (for Inductee Teachers) has been launched to train the Inductee Teachers of AICTE-approved/recognized institutions. Dr. V Shanmugha Neethi, a professor from NITTR Chennai handled a session on the National Initiative for Training of Technical Teachers (for Inductee Teachers). The training was conducted in three phases for the Inductee Teachers. The first phase of the training program for the Inductee Teachers was conducted in Massive Open Online Courses (MOOCs) mode consisting of eight modules on the SWAYAM platform through the NITTT portal www.nittt.ac.in

Newsletter-February 2023

ENTREPRENEURSHIP SKILL, ATTITUDE, AND BEHAVIOUR DEVELOPMENT

Department of Computer Science and Engineering

Date | 16-02-2023   Time | 12:00 PM to 01:15 PM   Beneficiary | 7th Sem CSE Students

The Department of CSE organized an Entrepreneurship Awareness Program for 7th Semester students on 16-02-2023 from 12.00 p.m. to 01.15 p.m. The Resource person was Ms. Harshitha Priyamvada, Chief Executive Officer, Om Prithvi Home Products. The objective of this event was to educate students about the knowledge of business with the necessary skills and information to become successful entrepreneurs. Key topics of the event were: The potential required to become an entrepreneur, how to transform ideas into a foundation of a startup company, and the support given by the ED cell of NHCE. A total of 40 students participated and benefited from this session.

Newsletter-March 2023

MOTIVATIONAL TALK ON EXECUTIVE PRESENCE

Department of Computer Science and Engineering

Date | 14-03-2023   Time | 2:00 PM to 4:00 PM   Beneficiary | 6th-semester students

The Department of CSE organized a motivational talk on the topic "Executive Presence" for 6th-semester students on 14-03-2023 from 02.00 p.m. to 04.00 p.m. The resource person was Ms. Kavitha Garla, Founder, Passion and Purpose, Bangalore, who addressed the session. The importance of executive presence in the corporate space and how one can inculcate these qualities at the workspace was explained with relevant examples. A total of 66 students participated and benefitted from this session.

Newsletter-March 2023

ALUMNI TALK

Department of Computer Science and Engineering

Date | 14-03-2023   Time | 12:00 PM to 1:00 PM   Beneficiary | 6th-semester students

The Department of CSE in association with CSI Student Chapter organized an "ALUMNI TALK" on 14-03-2023 from 12:00 PM to 1:00 PM. The title of the event was "INTRODUCTION TO GOOGLE CLOUD PLATFORM". The invited alumni speaker for the event was Ms. Aishwarya Rajeev, a graduate of the 2017 batch. She is currently working as a Technical Account Manager, Google Cloud Platform at Google. A total of 100 students attended and benefited from this event.

Newsletter-March 2023

3 DAY FDP ON "ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING APPLICATIONS IN HEALTHCARE ENGINEERING"

Department of Computer Science and Engineering

Date | 15-03-2023 to 17-03-2023   Beneficiary | 6th-semester students

The Department of CSE organized a 3-day FDP on "Artificial Intelligence and Machine Learning Applications in Healthcare Engineering" from 15th to 17th March, 2023. The Program was inaugurated by NHCE Principal and Dr Sumith Soman, Senior Data Scientist from Ericsson R & D, Bangalore. Many sessions were conducted and handled by eminent speakers from Industry and Academics. 150 participants across the country attended the session virtually, making the event a grand success.

Newsletter-March 2023

MACHINE LEARNING INTRODUCTION

Department of Computer Science and Engineering

Date | 24-03-2023   Time | 10.00 AM to 12.00 PM   Beneficiary | 6th-semester students

The Department of CSE organized an Expert lecture on the topic "Machine Learning Introduction" for 6th-semester students on 24-03-2023 from 10.00 AM to 12.00 PM. The Resource person was Mr. Charan Kumar, Cloud Engineer, Eduprwa, Bangalore, who addressed the session. Venue: A104, Key topics of the event were: Introduction to ML, various applications in the market and their role in all the fields including the real-time scenarios, and algorithms used today to solve the issues in society.

Newsletter-March 2023

WORKSHOP ON DESIGNING ENTERPRISE FRAMEWORK AND RESOURCE LINKAGES FOR MAKE-IN-INDIA STARTUPS

Department of Computer Science and Engineering

Date | 25-03-2023   Time | 11:00 AM to 1:00 PM   Beneficiary | 6th-semester students

The Department of CSE organized an Entrepreneurship Awareness Program for 6th Semester students on 25-03-2023 from 11.00 AM to 01.00 PM. The Resource person was Ms. Saritha Devpunje, Founder, of Magneton Technologies Pvt Ltd. This event aimed to educate students about the knowledge of business with the necessary skills and explain the key points of how to become successful entrepreneurs. A total of 53 students participated and benefited from this session.
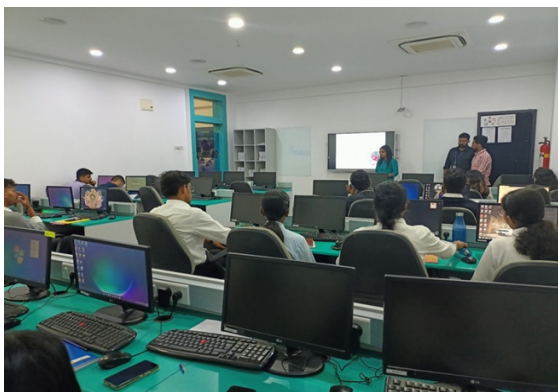
Newsletter-March 2023

EXPERT TALK ON DATA SCIENCE

Department of Computer Science and Engineering

Date | 27-03-2023   Time | 10:00 AM to 1:00 PM   Beneficiary | 6th-semester students

An expert talk on "Data Science" was organized by the Department of Computer Science and Engineering in association with IIC and TECHBYHEART under the HP Center of Excellence for the first top 25 students of the CSE department on 27th March 2023 from 10:00 AM to 1:00 PM. The resource person, Ms. Shwetha G Nair, Data Scientist Engineer, TECHBYHEART conducted the workshop on Data Science.

Newsletter-April 2023

CLOUD SECURITY-SASE

Department of Computer Science and Engineering

Date | 11-04-2023   Time | 10:00 AM to 12:00 PM   Beneficiary | 6th-semester students

The Department of CSE organized an Expert lecture on the topic "Cloud Security" for 6th-semester students on 11-04-2023 from 10.00 AM to 12.00 PM. The resource person was Mr. Rakesh, Cloud Engineer and Information Security Analyst, Mast Global, Bangalore, who addressed the session. Key topics of the event were: Firewalls, Antivirus, and Security among the systems, Digital transformation of organizations incorporating cloud-based tools and services into their infrastructure, and Cloud security measures to protect their data and systems.

Newsletter-April 2023

HANDS-ON WORKSHOP ON ADVANCED WEB 3 IN BLOCKCHAIN

Department of Computer Science and Engineering

Date | 12-04-2023   Time | 10:00 AM to 4:30 PM   Beneficiary | 6th-semester students

The Department of Computer Science and Engineering organized one day workshop titled "Hands-on Workshop on Advanced Web 3 in Block Chain" on 12th April, 2023. The resource person of the workshop was Mr. Shantanu Vishwanadha, who spoke on building a Blockchain app with the chatting tool and DAO on blockchain tool. 33 participants attended the session.

Newsletter-April 2023
DATA ANALYTICS SEMINAR
Department of Computer Science and Engineering

Date | 17-04-2023   Time | 10:00 AM to 4:00 PM   Beneficiary | 6th-semester students

The event Data Analytics Seminar was hosted on 17-04-2023. This seminar was conducted by Mr. Sunil Kumar Potanuru, Lead Data Scientist, at Lowe's India. He is very passionate and well-versed in the domains of data science, artificial intelligence, and machine learning. He is keen on building retail products, learning models, and exploring practical applications of his domain. He is an alumnus of the prestigious MVGR College of Engineering and IISC, Bangalore having work experience in big companies like TCS and Walmart.

The seminar went smoothly and it was an environment of learning, where the participants got to know about Data Analytics, it's key concepts, skills, and job roles that are available in this field. It was well organized, interactive and all the students actively participated. Data analytics is important across many industries, as many business leaders use data to make informed decisions.
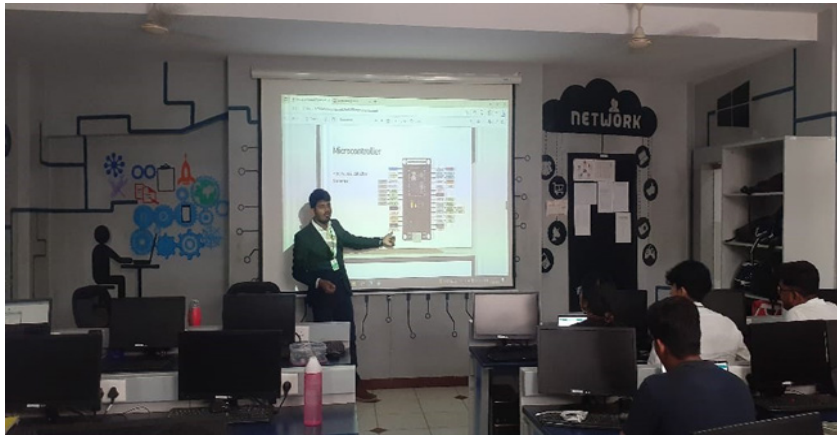
WORKSHOP ON INDUSTRIAL INTERNET OF THINGS

Department of Computer Science and Engineering

Date | 18-04-2023   Time | 10:00 AM to 4:30 PM   Beneficiary | 6th-semester students

The Department of Computer Science and Engineering organized a day workshop on "Industrial IoT" on 18th April, 2023. The IIoT encompasses industrial applications, including robotics, medical devices, and software-defined production processes. The entire workshop focused on important aspects of Industrial IoT with hands-on experience. Around 40 participants took part and benefitted from the workshop.

INDUSTRIAL VISIT TO LTI MINDTREE

Department of Computer Science and Engineering

Date | 19-04-2023   Time | 10:30 AM to 1:00 PM   Beneficiary | 6th-semester students

The industrial visit to LTI Mindtree was an insightful and enriching experience for the CSE students. The visit provided a comprehensive understanding of the company's operations and business practices, which included an overview of its software development processes, testing methodologies, and project management techniques. Over all 59 students attended the event.

Newsletter-April 2023

EXPERT TALK ON RPA-BOT DEVELOPMENT

Department of Computer Science and Engineering

Date | 20-04-2023   Time | 2:00 PM to 4:00 PM   Beneficiary | 6th-semester students

The Department of Computer Science and Engineering organized expert talk on "RPA-BOT Development" on 20th April 2023. The Resource person was Mr. Krishna Raju, Manager, Global Academic Alliance and Trainer in Automation Anywhere, Bengaluru. He explained how the Bots are developed in a real-world scenario and how it solves our daily problems. Around 60 participants of the 6th semester across all the departments took part and benefitted from the workshop.

Newsletter-April 2023

ALUMNI TALK

Department of Computer Science and Engineering

Date | 21-04-2023   Time | 2:00 PM to 3:00 PM   Beneficiary | 6th-semester students

The Department of CSE in association with CSI Student chapter organized the "Alumni Talk" on 21st April 2023 from 2:00 PM to 3:00 PM. The topic of the event was "Ethical Hacking". The invited alumni speaker for the event was Mr. Vinay Khande, a graduate of the 2018 batch. He is currently working as an Associate in Cognizant Technologies. More than 80 students of the CSE department have attended and benefited from this event.

Newsletter-April 2023

SOCIAL OUTREACH PROGRAM ON THE TOPIC "IMPACTS OF MOBILE" AT ST. IGNATIUS PUBLIC SCHOOL, BEGUR, BANGALORE

Department of Computer Science and Engineering

Date | **21-04-2023**　　　**Time** | **10:00 AM to 12:00 PM**

The faculties of CSE Department, Ms. Yogitha and Mr. Geluvaraj B along with 15 students from the department visited St. Ignatius Public School, Begur, Bangalore facilitated by Vonisha Service Foundation, Bangalore. They spread awareness on the topic "Impacts of Mobile" to the school children and conducted an interactive session. A total of 30 students from the age group of 8 to 14 years attended and benefitted from the session.

Newsletter-April 2023

HANDS-ON WORKSHOP ON DATA SCIENCE

Department of Computer Science and Engineering

Date | **24-04-2023**　　　**Time** | **9:00 AM to 12:00 PM**　　　**Beneficiary** | **6th-semester students**

A hands-on session on "Data Science" was organized by the Department of Computer Science and Engineering in association with IIC and TECHBYHEART under the HP Center of Excellence. The top 20 students of the department attended the session on 24th April 2023 from 9.00 AM to 12.00 PM. Ms. Shwetha G Nair, Data Scientist Engineer, TECHBYHEART conducted the workshop on Data Science and its applications.

Event - 10

Newsletter-April 2023
EXPERT TALK ON AWS CLOUD COMPUTING
Department of Computer Science and Engineering

Date | 28-04-2023   Time | 10:00 AM to 12:00 PM   Beneficiary | 6th-semester students

The Department of CSE organized an expert lecture on the topic "AWS CLOUD COMPUTING Introduction" for 6th-semester students on 28th April, 2023 from 10.00 AM to 12.00 PM. The resource person was Mr. Mithun Kalarikal, AWS Cloud Engineer, SHLCC-Dubai addressed the session. Key topics of the event were: Creating EC2 Machines, Route Network configuration, and Simple Storage Services.

Event - 1

Newsletter-May 2023
DEEP DIVE INTO COMPUTER SCIENCE-RELATED FIELDS TO EXPLORE OPPORTUNITIES IN NORTHERN ARIZONA UNIVERSITY
Department of Computer Science and Engineering

Date | 8-05-2023   Time | 12:10 PM to 1:30 PM   Beneficiary | 6th-semester students

The Department of CSE organized an expert lecture on "Deep dive into Computer Science related fields to explore opportunities in Northern Arizona University" for 6th Semester CSE students on 08th May, 2023 from 12.10 PM to 01.30 PM. The resource persons were Mr. Cesar Flores, Executive Director, Northern Arizona University and Mr. Pranav Sahni, Manager, Northern Arizona University addressed the session. Key topics were: Higher education opportunities at Northern Arizona University, Choices of courses, Part-time jobs, Cost of living, and the Importance of internships. Around 60 students participated and benefited from this expert talk.

Newsletter-May 2023

GUEST LECTURE ON NATURAL LANGUAGE PROCESSING

Department of Computer Science and Engineering

Date | 13-05-2023   **Time** | 9.00 AM to 11.00 AM   **Beneficiary** | 6th-semester students

The Department of CSE organized a guest lecture on the topic "Natural Language Processing" for 6th semester students on 13th May, 2023 from 9.00 AM to 11.00 AM. The resource person was Dr. Jyothi Prakash Singh from NIT Patna who conducted the event online. Key topics of the event were: Introduction to NLP, Business application in the market, Real-time algorithms used today to solve the issues in the society and threw light on different types of algorithms.

Newsletter-May 2023

5TH NATIONAL CONFERENCE ON "ADVANCEMENTS IN COMPUTER SCIENCE & ENGINEERING"- NCACSE-2023

Department of Computer Science and Engineering

Date | 17-05-2023   **Time** | 10:30 AM to 5:00 PM   **Beneficiary** | All Computer Science branch students

The technical papers were on domains such as Machine Learning, Deep learning, Big data analytics, IoT, Network security, Cloud computing, Data Mining, Blockchain, etc. A total of 71 papers were received throughout the country. 56 papers were accepted after a blind review and plagiarism check. Out of these, 9 papers were from Tamil Nadu, 3 papers were from Maharashtra and the remaining were from different parts of Karnataka. The paper presentations were done parallelly in 6 tracks under the panel of internal and external judges.

Newsletter-May 2023

TECH INSIGHT – 2023

Department of Computer Science and Engineering

Date | 18-05-2023 to 19-05-2023   Time | 9:00 AM to 4:00 PM   Beneficiary | All the engineering students

The Symposium 2023 is a platform to explore the students to get their novel ideas and various other technical skills through a competition which was conducted by the Department of Computer Science and Engineering. The motive was to promote theme-based novel ideas. This guided the students through the process of paper presentations, technical quizzes, innovative design thinking, web designing, coding, technical photography, and technical connections. The goal was to enhance the employability skills of students.
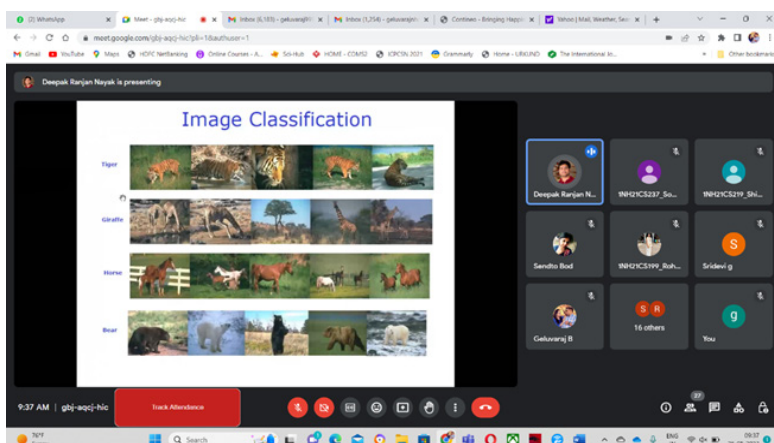
Newsletter-May 2023

GUEST LECTURE ON DEEP LEARNING

Department of Computer Science and Engineering

Date | 26-05-2023   Time | 9:00 AM to 11:00 AM   Beneficiary | 6th-semester students

The Department of CSE organized a Guest lecture on the topic "Deep learning" for 6th semester students on 26-05-2023 from 9.00 AM to 11.00 AM. Resource person was Dr. Deepak Ranjan Nayak, Assistant Professor from MNIT. Key topics of the event were: Introduction to DL, Business and Healthcare applications in the market and what are the real time algorithms used today to solve the issues in society and light on different types of algorithms. 65 students attended the event.

Newsletter- May 2023

ALUMNI TALK ON "LIFE OF A BACKEND ENGINEER"

Department of Computer Science and Engineering

Date | 26-05-2023   Time | 12.00 PM to 1.00 PM   Beneficiary | 4th-semester students

The Department of CSE organized Alumni Talk on "Life of a Backend Engineer" for 4th semester students on 26th May 2023 from 12.00 PM to 1.00 PM. The resource person was Mr. Tejas Vishwanath, Lead Engineer at GoHighLevel. Key topics of the event were: Life of developers, the acquisition of programming language skills, and new skillsets in specific domains. A total of 60 students attended the event.

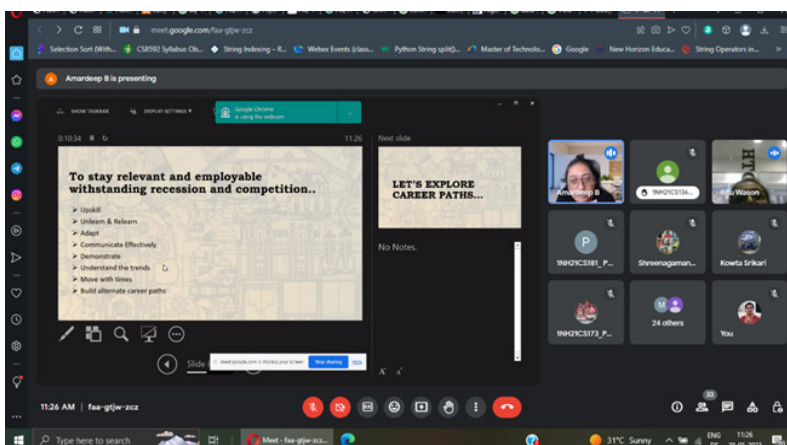Newsletter- May 2023

HIGHER EDUCATION OPPORTUNITIES IN UNITED STATES

Department of Computer Science and Engineering

Date | 29-05-2023   Time | 11.30 AM to 1.00 PM   Beneficiary | 4th-semester students

The Department of CSE organized an Expert Lecture on "Higher education opportunities in United States" specifically about the Computer Science related fields to explore in Northern Arizona University. The session was conducted for 4th semester CSE students. The resource person was Ms. Amardeep, Founder, College Guru. Key topics were: Higher education opportunities in Northern Arizona University, Choices of courses, Part-time jobs, Cost of living and the Importance of internships. Around 60 students participated and benefited from this expert talk.

Newsletter- June 2023

CSI STUDENT CHAPTER INAUGURATION 2022-2023

Department of Computer Science and Engineering

Date | 20-06-2023   Time | 10.30 AM to 11.20 AM

The CSI-NHCE Student chapter was inaugurated in the presence of Honorable Chief Guest, Mr. Janardan Revuru, Director of Engineering at Dell Technologies. The lamp was lighted to bring out the auspicious light to the ceremony. The welcome address was delivered by the President of the club, Diksha of 2nd year CSE. A warm introduction was given to all the office bearers of the NHCE CSI student chapter. Mr. Janardan Revuru gave the Inaugural speech and was felicitated with a memento. Vote of thanks was given by Sinchana Poojarthy of 2nd year ISE. The program concluded with the National Anthem.

WORKSHOP ON QUANTUM COMPUTING

Department of Computer Science and Engineering

Date | 22-06-2023   **Time** | 10.00 AM to 4.00 PM   **Beneficiary** | All Computer Science Engineering students

The Department of Computer Science and Engineering organized one day workshop titled "Quantum Computing" on 22nd June, 2023. The resource person of the workshop was Dr. Jayakumar Vaithiyashankar, IBM Certified Associate Developer-Quantum Computing, Assistant Professor, Presidency University. The entire workshop focused on important aspects of Quantum Computing. Quantum computing is a multidisciplinary field comprising aspects of computer science, physics, and mathematics that utilizes quantum mechanics to solve complex problems faster than classical computers. It is used to solve mathematical problems and run quantum models using the tenets of quantum theory. Machine learning using quantum computers will result in improved pattern recognition, making it easier to predict extreme weather events and potentially saving thousands of lives a year. Around 45 participants took part and benefitted from the workshop.

Newsletter- June 2023

SOCIAL OUTREACH PROGRAM ON THE TOPIC "IMPACTS OF MOBILE" AT NEW HORIZON SCHOOL, BHEEMAKANAHALLI, BANGALORE.

Department of Computer Science and Engineering

Date | 24-06-2023   Time | 10.00 AM to 1.00 PM   Beneficiary | 9th and 10th standard students

The faculties of the CSE Department, Ms. Yogitha and Mr. Geluvaraj B along with 15 students of 4th semester from the department visited New Horizon School, Bheemakanahalli, Bangalore. They spread awareness on the topic "Impacts of Mobile" to the school children and conducted an interactive session. A total of 140 students from 9th and 10th standard attended and benefitted from the session.

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