



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER



Dear All,

It gives me immense pleasure that the newsletter for the quarter (February 2019-April 2019) has been released. I would like to congratulate my students and faculty members for adding one more feather in the Department's cap by bringing out the newsletter for this academic quarter. This newsletter is a small step, but the step in the right direction and such endeavors will help us reach the top. As you read through the pages you will realize, that the Department had an extremely successful semester. I would like to thank all my faculty members for their tireless efforts to help the department progress at a very steady pace. Efforts of the editorial board are highly commendable. This newsletter encloses and describes the achievements of the students and faculty members from the CSE department in curricular, co-curricular and extra-curricular activities and the events organized by Department of Computer Science and Engineering

Dr. B. Rajalakshmi

HOD-CSE

Dear Reader,

First of all, I would like to congratulate the department of CSE for the publication of this quarterly newsletter. I am sure this newsletter will act as a consolidated information resource for all the events that have been organized by the CSE department in the past three months. In addition to curricular activities, NHCE prides itself in encouraging co-curricular and extra-curricular activities, and I am sure that this newsletter will encourage students to be more involved in such activities. My best wishes to the CSE Department.

Dr. Prashanth CSR

Dean Academics.

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 Department of Computer Science and Engineering is bringing out a newsletter. I am sure that this newsletter will bring value for all the students and readers who are interested in the area of Computer Science in form of latest developments made in technology. I wish, the department all the best for the publication of the Newsletter and in all their future endeavours.

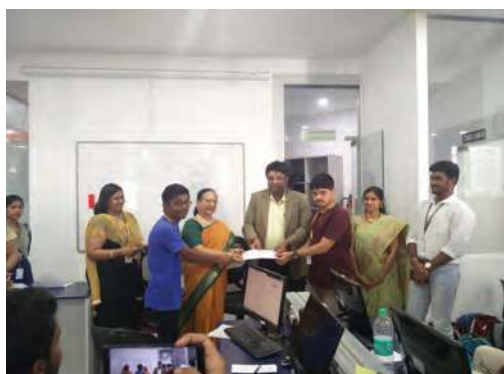
Dr. Manjunatha

Principal

CODING CONTEST

In order to make readiness for the placement to enhance the logic building and employability skills of the 6 th semester UG students and 4 th semester PG students, the CSI student chapter of the departments of CSE, ISE and MCA jointly conducted a coding contest on 20/02/2019. There were totally 3 levels, in which first two levels of rounds were conducted by the respective departments. The Final round was common for all 3 departments. The student winners were awarded cash prize worth of Rs.10000.

- 1st place : RAHUL JAIN (1NH16CS086) -- CSE
VINAY KUMAR JAISWAL (1NH16CS122) -- CSE
- 2nd place : DEEKSHITH D V(1NH16CS028) -- CSE
SUHAS KAMATH(1NH16CS754) -- CSE
- 3rd place : SRIRAKSHA(1NH18MCA77) -- MCA
MOHAMMED AZEEZ KHAN(1NH18MCA66) -- MCA



PROJECT MANAGEMENT FOR STUDENT'S PROJECT

The Computer Society of India- Bangalore chapter organized a Zoom tech talk on the topic "Project Management framework and best practices in a student's project" on 20/02/2019.

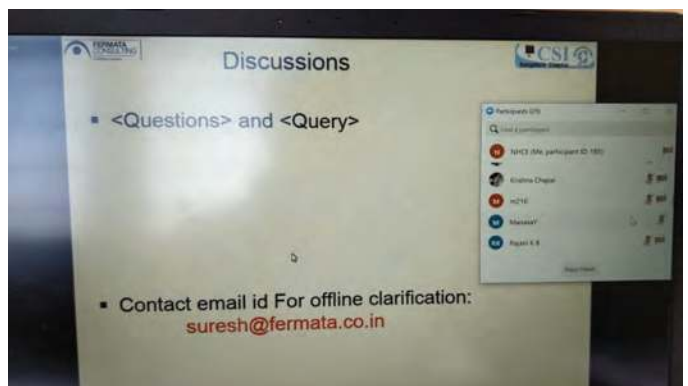
Speaker: Suresh Thiagarajan, Director (Quality and process consulting) - Fermata consulting.

Around 25 students from department of Computer Science and Engineering joined the meeting from different locations. Few students were assembled in classroom A104 and at Adobe lab.

Participants joined the zoom Meeting using the following URL:

<https://us04web.zoom.us/j/732472406>

The Speaker gave an insight into project management framework, project management toolkit for student projects, best practices in project management of student projects and benefits during his session.



FDP ON BIG DATA ANALYTICS WITH HADOOP APACHE SPARK

HP Center of Excellence, Department of CSE in association with Global IT Commune and Computer Society of India organized a FDP on "Big Data Analytics using Hadoop-Apache Spark" from 10:00 am -5:00 pm in HP COE Lab on 8/03/2019.

Mr. Sachin Mudholkar who was the speaker of the event is currently working as Chief Technology Officer in Talentpod.

Mr. Sachin gave a deep insight on how machine learning is playing an important role in big data. Some of topics discussed in the session were: -

- Four stages in data analysis pipeline
- Architecture of Hadoop –hdfs, mapreduce and spark
- How spark has taken over mapreduce?
- How spark can be installed on windows/linux and how to run spark program using python/java?
- Batch processing v/s stream processing
- Running of spark examples using pyspark
- Various real time applications of big data in the industry and the challenges in their analysis were discussed by industry members from different domain like healthcare, telecom, e-commerce etc.



ALUMNI TALK

The Department of Computer Science and Engineering organized the Alumni Talk on 9/03/2019.

Pruthvi Diwakar Hegde, graduated from the department of Computer Science and Engineering was part of the 2011-2015 batch of New Horizon College of Engineering. She was awarded with "Branch topper" award by NHCE for academic excellence. She is working with VMware India for the past three and half years. She has worked as a mobile application developer and is currently working as an automation engineer in test. She has worked on interesting enterprise mobile applications and has received "Spotlight Award" for developing and delivering apps within a short span. She delivered a talk on "Introduction to Data Science" where she explained the importance of Data Science to students. She also discussed with the students how to pursue higher studies.

Harish T, graduated from the Department of Information Science and Engineering, NHCE in 2010 and was placed with Wipro Technologies as a Project Engineer. Later he quit his job to pursue his Master's Degree with the Department of Computer Science and Engineering, NHCE in the year 2012. During his M.Tech, Harish was selected as an intern with EMC Corporations, where he worked for 9 months testing EMC Network Devices like switches, routers and automated some test scripts using selenium. Post his Master's degree, Harish was absorbed as a Full Time Employee with EMC Corporation and worked there for 4 years as the Technical Lead in Network Security and Authentication subject. Harish now works as an Escalation Level 3 Engineer with Forcepoint Technologies dealing with Cyber Security issues. Harish spoke on "Network Security". Harish also discussed with students how to prepare for MTech degree.

Ajay Raghunathan was part of the Batch 2007 -2011. He started his career as an Analyst at Repucom Pvt Ltd. He later worked in BEL for 1 year. He then moved to a Digital Marketing agency and worked as SEO Analyst. With multiple freelance projects completed, he started a company, Tettares Software Solutions in Sept 2014. He worked with multiple clients like Big Basket, WhatDoIEat, TextureTouch Pvt Ltd, NisargaShoppe etc. Tettares got merged with Nuveda Learning Pvt Ltd in the year 2017. Ajay has raised an Angel investment, achieving an internal goal of 25 employee count, venturing into multiple domains and working with market leaders. He gave a talk on "Entrepreneurship".



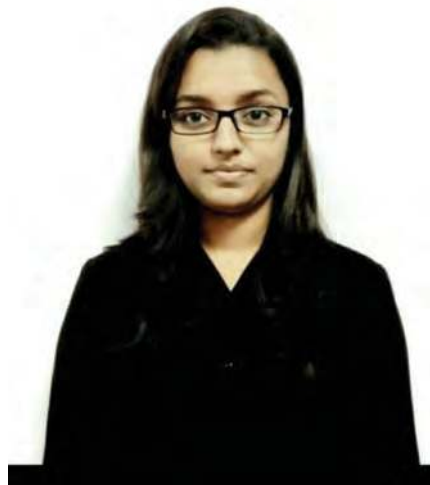
HACKATHON

The Hackathon was conducted on 11/03/2019 by MD Club, BIT Club and ACE Club of the Department of Computer Science and Engineering (in collaboration). The event was an all-around hit, where 150 members enrolled for the event. The event had 3 rounds, and 3 cash prizes. The first prize was Rs 4000, the second prize was of Rs 2000 and the third prize was Rs 1000. The first round was an aptitude test which had 20 questions and had to be answered in 45 minutes. The second round was called error checking. For this round, only 43 participants qualified. The participants had to write the output or find out the error and correct it. The next round was called coding under pressure. In this round, there were 13 teams comprising of 2 members each. The top six teams were selected for the final round. The final round was called pattern recognition. In this round, the teams were given 3 complicated patterns of characters or numbers and were supposed to write a program which gives the pattern as the output. The first prize was won by Sahnmathi Kailasam and Mervin Shibu George, the team from the department of ISE, the second was won by Suhas S Kamath and Ruman Ahmed Shaikh, the team from the department of CSE and the third prize was won by Rahul Verma from the department of CSE and Jeevan K from the department of ECE.



VTU RANK HOLDER

- Ms.Sanya Dikshit bearing USN-1NH14CS162 was a student of the department of Computer Science and Engineering of batch 2014-2018(VTU Batch).
- It is a proud achievement that she has secured 5th rank in VTU university and was also the college department topper of batch 2014-18. It was awarded on 12/03/2019.
- Ms.Sanya has secured the first position in Tech horizon for the final semester project competition with more than 100 projects.
- She was the president of BIT club in the department of CSE. she is currently working in Wipro.



INTERNATIONAL SUMMER SPACE SCHOOL

We are proud that a team of 6 NHCE Students (two are from the department of CSE) have been selected for the World Famous "The International Summer Space School: Future Space Technologies and Experiments in Space" on 14/03/2019.

XV Summer Space School (June 17th - June 29th 2019) was held at Samara National Research University, Samara, RUSSIA.

Organised by Russian Academy of Cosmonautics, Samara Space Centre, Samara University with the Support of United Nations Office for Outer Space Affairs, University Space Engineering Consortium and International Astronautical Federation

The Motto: "From mission idea to nanosatellite project"

They have successfully completed Distance Education Stage through Quizzes and Assignments from 30/11/2018 to 13/03/2019. The NHCE Team has occupied one of the Top 50 Slots across the globe succeeding over many Masters and PhD Scholars. At the end of the School they will be able to Win 1 Million USD (Rs.7 Cr) for their Nano Satellite Design, Fabrication and Launch. NHCE is the 1st Institution from India to send 6 Students to International Summer Space School, Samara, Russia.



Rohit Mulay- VI Year CSE



Viswa- III Year CSE

WORKSHOP ON DATA SCIENCE AND MACHINE LEARNING :HANDS-ON USING R PROGRAMMING

Data Science and Machine Learning using R workshop was conducted on 19/03/2019 by Mr. Vinay, a speaker, corporate trainer and a very well known resource person in the field of Data Science and Machine Learning. The venue was CSE Department Lab 3. The workshop was conducted from 9.30 am in the morning to 4.30 pm in the evening. The speaker started the workshop by throwing light on the general technological trends and the emergence of machine learning and data science as one of the fastest growing technologies of this time and its need in the current growth rate of data production. The students were also briefed about the general concepts of big data, data mining and machine learning and their types. They were also given valuable insights in the career opportunities available in this field.

Following this, a brief introduction and hands on training in programming using R was given where they learned the main concepts required for conducting analytics using R programming language. Post lunch was followed with hands-on machine learning and data analytics using a simple example of Iris dataset using R language. They were also given brief introduction about the various algorithms used for machine learning and data analytics.

The speaker also gave valuable insights on interview questions both technical and aptitude. Overall, the workshop was very informative and useful to the students who have now gained a brief introduction to kick start their journey in machine learning and data science.



PARENT-TEACHER MEETING

The department of CSE organized "Parent-Teacher Meet" that served as a connection platform for parents, teachers and the students, where teachers and parents come together to enrich themselves and the student's educational experiences and discuss a variety of issues, regarding all round development of students on 23/03/2019. The meeting has been organized in such a way that the parents have a chance of one-to-one interaction with the teachers before the Semester End Exams. It aimed at bridging the gap between parents, students and teachers, keeping parents informed about their ward's performance and progress, discussing the causes behind the student behavior and performance. This enabled the parents to know about the weaknesses of their ward, so that they make him/her work towards improvement in the courses required. This meeting provided a platform where the parents and teachers could get to know about each individual personally, so that they can plan accordingly for better results and behavior of the students. Overall, it was a platform for sharing the suggestions that would help in improving the students' progress.



EXPERT LECTURE

The Department of CSE organized an "EXPERT LECTURE" on 08/04/2019 on the topic "TCP/IP", and "AI/ML". Mr. Bhuvneshwar Chouksey, R & D team, Nokia Networks, Bangalore was invited to speak on different topics like TCP/IP, and AI/ML. The speaker highlighted the different tools available for deployment and also gave an insight on the basics of Python language. He also spoke about various technologies.



EXPERT LECTURE

The department of CSE organized an "EXPERT LECTURE" for the 4th semester CSE students on 09/04/2019. Mr. Vinod Unnikrishnan, Associate director, Virtusa technologies, Bangalore was invited to speak on the topic "Usage of DBMS in industries". The speaker highlighted the different tools available for deployment and also gave an insight on current trends in the industry. He also spoke about various technologies.



INDUSTRIAL VISIT

The industrial visit to Wipro was organized on 10/04/2019. Wipro is a very well-known and established company that is flourishing in the heart of the IT industry. We visited the Wipro campus at Electronic City. There was an introductory session by Mr. Binoy K who is a part of Wipro hiring and recruitment team. He laid emphasis on the fact that academia teaches the basis to survive in the ever-growing IT industry.

The next speaker was Mr. Mohan Kumar who themed his session as 'The experience of a new beginning'. He gave insights about Wipro, its IT businesses, consumer care, lighting, and infrastructure engineering. We were also given a brief history about Wipro's establishment and its initial stages of growth. Till this day it is ranked among the top four IT companies. The industrial visit was concluded with a guided tour of the company. Overall, the take away from this industrial visit was immense and this has truly been a wonderful day spent at an amazing company that nurtures young and talented minds.



ANDROID APP DEVELOPMENT WORKSHOP

The Mobile app Development club conducted an event, "The Android App Development Workshop", on 11/04/2019. The workshop was conducted by Sivan Chakraborty, a student of department of Computer Science & Engineering, NHCE.

This was the third time the club has organized this workshop. Registration links and download details of Android studio were sent to the students. The idea of Android App Development is booming nowadays and students of NHCE were very enthusiastic towards the event.

The first half comprised of Sivan giving an introduction to the students about Android, the tools and software involved in the process of android app development. They were then explained how to develop a simple 'Calculator' application. Sivan taught them about the UI/UX design and gave them a clear picture of how to make the UI interactive. He simultaneously developed the Calculator App with the students so that they do not face any difficulty.



EXPERT LECTURE

The department of CSE organized an "EXPERT LECTURE" for the 6 th semester students on 17/04/2019. Mr. Vinod Unnikrishnan Associate director, Virtusa technologies, Bangalore was invited to speak on different topics like "AGILE" and "SDLC". The speaker highlighted the different tools available for deployment and also gave an insight on current trends in the industry. He also spoke about various technologies.



CURRENT TRENDS IN DATA ANALYTICS

Business and Information Technology Club [BIT] under the Department of Computer Science and Engineering organized a talk on "Current Trends in Data Analytics" for the 1st Year Students on 17/04/2019. Students were given basic insight on how Data helps any company grow. Current Trends included IoT, Artificial Intelligence, Augmented Reality, Graph Analytics, Agile Data Science, Hyper Personalization, Machine Intelligence, Behavioral Analytics, Journey Sciences and the Experience Economy were discussed, followed by the scope and future of Data Analytics and the path to choose to work in Data Analytics Domain.
Speaker: Mr. Sanketh S Huddar, 6th Semester Department of CSE, New Horizon College Of Engineering



NATIONAL CONFERENCE ON "ADVANCEMENTS IN COMPUTER SCIENCE & ENGINEERING"

The department of CSE organized a National Conference on "Advancements in Computer science and Engineering" on 24/04/2019. We invited technical papers on domains like Image processing, Big data analytics, Machine learning, IoT, Network security, Cloud computing, Data Mining, Blockchain etc. A total of 62 papers were received from all over the country. 37 papers were accepted after the peer review and plagiarism check. Of these 4 are from Goa, 4 from Tamil Nadu, 1 from Bhopal and 26 from different places in Karnataka. The paper presentations were done parallelly in 5 venues under the panel of internal and external judges. 4 papers were presented over Skype. All papers presented in the conference are also published in the conference proceeding with an ISBN number 978-93-5351-986-5 and these papers would also be published in the "International Journal of Computing & Information Science", a UGC approved Journal with ISSN 09721347. A soft copy of the proceeding and participation certificate were to be given to each participant. The paper titled "Smart and Reliable Techniques for Blind Spot Detection" by Mr. Sai Prashanth, Department of ECE, New Horizon College of Engineering and "Design and Implementation of a 32-bit Floating point Multiplier Using VHDL" by Preshika JM, Prithipa A and Rakshitha N, of Department of ECE, New Horizon College of Engineering received best paper awards.



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