NEW HORIZON
COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER

Dear All,
It gives me immense pleasure that the newsletter for the quarter (August 2019-October 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

HANDS- ON FACULTY TRAINING PROGRAM ON HP VERTICA-DATA WAREHOUSING DATABASE

NHCE has signed an MoU with HP Enterprise to establish Big Data and Data Analytics Centre of Excellence with state of the technology Lab at NHCE campus. Country Head of Big Data, HPE Mr.Harish and NHCE Chairman Dr.Mohan Manghnani exchanged MoU on 21st April 2017. This is the first time in India that HPE has collaborated with an educational Institution for its flagship program Vertica.

HP Centre of Excellence on Big Data and Data Analysis

HP Centre of Excellence on Big Data and Data Analytics

Teachers from various departments were directly trained by Mr. Kushwanth Setty, HPE Engineer, South Asia region for a period of one-week from 10th July- 15th July 2017 on their product VERTICA: data-warehousing database. On the first day, Mr. Harish, Country Head of Big Data, HPE has given an introductory talk on Big Data and its application, key for Analytics, a brief idea on overall workflow from various sources of DBMS —ETL tools-HPE VERTICA Data management System-Visualisation & Dash Board.

Since, Relational Database & SQL basics were pre-requisite for this training, Aahana Institute members along with CSE and ISE faculties of this training session conducted a brief discussion session among all the trainees on the pre-requisite topic on the first day.

Based on the syllabus set by HPE expertise and Aahana institute members, the following vertica concepts were covered along with practical exercises by HPE expertise.

- **VERTICA features**
- **Running of Database designer and its advantages**
- **Hybrid Data model**
- **Query plan & Query execution workflow**
- **Projection fundamentals**
- **Partitioning, insert, copy**
- **Delete and Purge concepts of VERTICA**
- **VERTICA management console**
- **Recovery and backup**
- **Resource pool**

Mr. Prinshu Verma from Prwatech conducted practical exercises on HADOOP Tools from 20th July–22nd July 2017. The following topics were covered during the sessions:

- **Introduction to Hadoop Ecosystem**
- **Hadoop distributed filesystem and Hadoop Map Reduce**
- **Running of MapReduce programs**
- **SQOOP tool and its use in importing files from MySQL to HDFS**
- **Pig Tool and Some pig Latin commands**
- **Creation of HIVE tables and querying it for analysis**
- **Creation of tables in HBASE, load data and read data from it.**

The training on VERTICA and HADOOP were completed in the month of July 2017, which was highly knowledgeable and learning experience in current trend. Faculties shared their experiences and feedback after every session.

GUEST LECTURE ON INFORMATION SYSTEMS USE IN ORGANIZATION

The Department of CSE has conducted a Guest Lecture on the topic "Information Systems Use in Organization" for 5th Semester- A Section CSE students on 11th October 2017. The Speaker was Mr. Phani Vemulapalli, Senior Technology Architect, Infosys.

GUEST LECTURE ON BIG DATA
A PARADOX

The Department of CSE has conducted a Guest Lecture on the topic "Big Data -A Paradox" for 5th Semester- B Section CSE students on 16th October 2017. Big data is a term that describes the large volume of data — both structured and unstructured — that engulfs a business on a day-to-day basis. But it's not the amount of data that's important. It's what organizations do with the data that matters. More insight about this was provided by the speaker Mr. Vijay Kulkarni, Lead Data Science Engineer, Thermo Fisher.

INDUSTRIAL VISIT

The Department of CSE has conducted an Industrial visit for 7th Semester CSE students on 28th October 2017. Jetking Infotrain Limited, an ISO 9001:2008 certified company, is India's foremost computer hardware and networking Institute. Established in 1947Jetking Infotrain Limited is an Indian computer networking institute, which trains technical and non-technical students.

GUEST LECTURE ON INTRODUCTION TO DATA SCIENCE

The Department of CSE has conducted a Guest Lecture on the topic "Introduction to Data Science" for 5th Semester- C Section CSE students on 28th October 2017. Data science is all about using data to solve problems. The problem could be decision making such as identifying which email is spam and which is not. So, the core job of a data scientist is to understand the data, extract useful information out of it and apply this in solving the problems. The speaker Mr. Rajsekar, Workforce lead, JDA, Bangalore spoke about the 'art work' of a data scientist.

GUEST LECTURE ON PHP CONNECTING TO DATABASE

The Department of CSE has conducted a Guest Lecture on the topic "PHP-Connecting to Database" for 7th Semester CSE-A Section students on 28 th October 2017. The guest speaker was Ms. Sathya. R, Software Engineer, Baryons Software Solutions.

GUEST LECTURE ON ANDROID OVERVIEW

The Department of CSE has conducted a Guest Lecture on the topic "Android Overview" for 7th Semester CSE-B Section students on 30th October 2017. The guest speaker was Mr.Komteswara Ravipati, Module Lead, Century Link.

GUEST LECTURE ON BLOCK CHAIN TECHNOLOGY

The Department of CSE has conducted a Guest Lecture on the topic "Block Chain Technology" for 7th Semester CSE-C Section students on 30th October 2017. The guest speaker was Mr.Deepak, Associate Tech Lead, Source Bits Technology.

GUEST LECTURE ON AGILE REVOLUTION IN PRODUCT SPACE

The Department of CSE has conducted a Guest Lecture on the topic "Agile Revolution in Product Space" for 5 th Semester CSE students on 31st October 2017. The guest speaker was Mr. B Pavan Chandra, Sr. Product Manager, Dell Technologies.

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Professor and Head
Department of Computer Science and Engineering

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