

J.J. COLLEGE OF ARTS AND SCIENCE (Autonomous), PUDUKKOTTAI

DEPARTMENT OF COMPUTER SCIENCE

REPORT ON GUEST LECTURE

BIG DATA AND CLOUD COMPUTING –OPPORTUNITIES AND CHALLENGES, 26.7.2019

The guest lecture on '**Big data and Cloud computing – Opportunities and Challenges**' was arranged by the Cyber Tech Association, PG and Research Department of Computer Science on 26.7.2019. The lecture took place at KIM Conference Hall. **Dr. D.J. Evangeline**, Assistant Professor in Department of Computer Science, Raja Serffoji college, Thanjavur was the resource person.

She delineated big data has gained much attention from the academia and the IT industry. In the digital and computing world, information is generated and collected at a rate that rapidly exceeds the boundary range and currently, over 2 billion people worldwide are connected to the Internet, and over 5 billion individuals own mobile phones. By 2020, 50 billion devices are expected to be connected to the Internet. At this point, predicted data production will be 44 times greater than that in 2009.

She also added Big Data is still in its infancy stage, and the domain has not been reviewed in general. She gave clear explanation about the various attributes of Big Data, including its nature, definitions, rapid growth rate, volume, management, analysis, and security and life cycle that uses the technologies and terminologies of Big Data.

Dr.S.Sudha, the Head of the department welcomed the gathering and Ms.J.Nithyapriya, Assistant Professor, Dept. of Computer Science gave the vote of thanks. The student beneficiaries asked many doubts and queries on this upcoming trend and got them answered. The guest lecture was well arranged by the staff of the department with their fullest cooperation.

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REPORT ON GUEST LECTURE

TITLE: CURRENT SCENARIO OF DATA SCIENCE

DATE: 09/8/2017

A guest lecture on '**Current Scenario Of Data Science**' was arranged by the Cyber Tech Association, PG and Research Department Of Computer Science on 9.8.2017 at Gallery Hall. **Dr. S. Durairaj**, Assistant Professor and Research Coordinator, School of Computer Science and Engineering, Bharathidasan University, Khajamalai Campus, Tiruchirappalli was the resource person.

He lavishly gave many technical details about the upcoming field Data Science. He said data science is an inter-disciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from many structural and unstructured data and it is related to data mining, deep learning and big data.

He also added Data science is a "concept to unify statistics, data analysis, machine learning and their related methods" in order to "understand and analyze actual phenomena" with data. It uses techniques and theories drawn from many fields within the context of mathematics, statistics, computer science, and information science.

He turned our attention by saying the about the Turing award winner Jim Gray who imagined data science as a "fourth paradigm" of science and asserted that "everything about science is changing because of the impact of information technology" and the data deluge.

He threw the light on data science by saying it is an interdisciplinary field focused on extracting knowledge from data sets, which are typically large and the field encompasses analysis, preparing data for analysis, and presenting findings to inform high-level decisions in an organization. At last he described how data science incorporates skills from computer science, mathematics, statistics, information visualization, graphic design, and business.

Ms..S.Sudha, the Head of the department welcomed the gathering and Ms.M.Jothi, Assistant Professor, Dept. of Computer Science gave the vote of thanks. The guest lecture was

well arranged by the utmost cooperation of the staff of the department and the students got ample knowledge about the Data Science and were greatly benefited.

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REPORT ON GUEST LECTURE

TITLE: JOB SCHEDULING

DATE: 04.8.2016

The guest lecture on ‘**Job scheduling**’ was arranged by the Cyber Tech Association, PG and Research Department of Computer Science on 04.8.2016. The technical lecture was handled by **Mr.D.Shanmugasundaram**, Assistant Professor, Department of Computer Science, H.H. The Rajah’s College, Pudukkottai. He neatly explained the core concept of job scheduling as to complete a job; one has to process the job on a machine for one unit of time provided only one machine is available for processing the jobs.

He deciphered the steps for performing job sequencing with deadline like sorting the jobs based on the profit in an increasing order, fixing the maximum deadline with the help of an array, create a solution array, checking the jobs and returning the result as solution array. He added by explaining the time complexity of job scheduling. Then he precisely gave the ideas about job scheduling with an example.

He said that job scheduling is an important context in determining the process control task of an operating system and said this job scheduling is the core concept of device allocation, memory allocation, file allocation etc. The concept of job scheduling play a vital role in predetermined scheduling all resources of a computer he added.

The Head of the Department and the Vice Principal Ms.S.Sudha welcomed the gathering, Ms.S.Rathna Devi, Assistant Professor, Dept. of Computer Science gave the vote of thanks. The students got ample knowledge about the Job scheduling and were greatly benefited. The lecture was arranged by the department staff with their fullest support.

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REPORT ON GUEST LECTURE

TITLE: INFORMATION STORAGE AND MANAGEMENT

DATE: 30.12.2015

A guest lecture on ‘**Information Storage And Management**’ was arranged by the Cyber Tech Association, PG and Research Department Of Computer Science on 30.12.2015. The resource person was **Dr.D.P.Jeyabalan**, Associate Professor, Dept.of Computer Science, St.Joseph College(Autonomous), Trichy.

He brought out his crisp and clear views on Information Storage and Management. He said Information Storage and Management is defined as it refers to the management of the data storage equipment’s that are used to store the user/computer generated data and it is a tool or set of processes used by an administrator to keep your data and storage equipment’s safe.

He stated storage management is a process for users to optimize the use of storage devices and to protect the integrity of data for any media on which it resides and the category of storage management generally contain the different type of subcategories covering aspects such as security, virtualization and more, as well as different types of provisioning or automation, which is generally made up the entire storage management software market. Storage management key attributes:

He elucidated storage management is a process that is used to optimize the use of storage devices, it must be allocated and managed as resource in order to truly benefit a corporation and is generally a basic system component of information systems which is used to improve the performance of their data storage resources.

He also added the advantages of information and storage management as it is very simple to manage a storage capacity by taking very less time and it improves the performance of system.

Ms..S.Sudha, the Head of the department welcomed the gathering and Mr.K.Selvan, Assistant Professor, Dept. of Computer Science gave the vote of thanks. At the outset the guest lecture was a big success and by aiding the student beneficiaries with a blooming research trend.

The guest lecture was arranged by the cooperation and support of the department staff.

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TITLE: QUANTITATIVE APTITUDE FOR COMPETITIVE EXAMINATIONS DATE: 03/8/2016

The guest lecture on ‘**Quantitative Aptitude For Competitive Examinations**’ was arranged by the Cyber Tech Association, PG and Research Department of Computer Science on 03.8.2016. The resource person was **Dr.M.Balasubramanian**, Assistant professor, Department of Statistics, Periyar EVR College, Trichy

He described about the prerequisites such as what an Aptitude Test is, how the Aptitude Tests are Conducted, the Test Structure and the Scores and Marking.

He very precisely explained the core concept of Quantitative Aptitude and said that an aptitude test represents a systematic way to judge a candidate's mental capability as how he/she performs certain tasks and reacts to different scenarios. Each aptitude test uses a standard method of administration and scoring so that results can be computed and compared with the other candidates. He said the aptitude tests are conducted online either as a part of some competitive exam or as a part of job interview process. Aptitude tests are organized before any interview to take place to filter out the suitable candidates and the aim of aptitude test is primary to check if the candidate can face the challenges in his day-to-day activities of the job.

He touched the basic concepts of aptitude like numerical computation ability, analytical abilities with the flavors of Number System, Basic Arithmetic, and Decimals and so on. Each of these topics was elaborated with simple and useful examples.

Ms.S.Sudha, the Head of the department welcomed the gathering and Ms.M.Nithyakalyani Mekala, Assistant Professor, Dept. of Computer Science gave the vote of thanks. The guest lecture was well arranged by the utmost cooperation of the staff of the department and the students got ample knowledge about Quantitative Aptitude as it is the most required skill in job sectors. The students raised a lot of doubts and got them cleared. The lecture was a great benefit for the students.

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TITLE: PERSONALITY DEVELOPMENT

DATE: 23.7.2015

A special lecture on '**Personality Development**' was arranged by the Cyber Tech Association, PG and Research Department of Computer Science on 23.7.2015 at PG Conference Hall. The lecture was given by **Dr.Captain. Pon Rajaretnam**, Deputy Controller of Examinations and Associate Professor, H.H. The Rajah's College, Pudukkottai.

He gave exemplary descriptions and explanations about Personality development. It is the development of the organized pattern of behaviors and attitudes that makes a person distinctive. Personality development occurs by the ongoing interaction of temperament , character, and environment. Personality is what makes a person a unique person, and it is recognizable soon after birth.

A child's personality has several components: temperament, environment and character. Temperament is the set of genetically determined traits that determine the child's approach to the world and how the child learns about the world. There are no genes that specify personality traits, but some genes do control the development of the nervous system, which in turn controls behavior.

He added personality comes from adaptive patterns related to a child's specific environment. Most psychologists agree that these two factors—temperament and environment—influence the development of a person's personality the most. Temperament, with its dependence on genetic factors, is sometimes referred to as "nature," while the environmental factors are called "nurture."

He untangled personality as it is a character which is the set of emotional, cognitive, and behavioral patterns learned from experience that determines how a person thinks, feels, and behaves. A person's character continues to evolve throughout life, although much depends on inborn traits and early experiences. Character is also dependent on a person's moral development.

He concluded with practical tips on personality development and the soft skill requirements of the today's job market.

Ms..S.Sudha, the Head of the department welcomed the gathering and Ms.K.Vimala, Assistant Professor, Dept. of Computer Science gave the vote of thanks. The students asked many queries and got them cleared by the resource person. The guest lecture was well arranged by the staff of the department and the students commented that the lecture was an eye opener about the requirements of the job sectors.

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REPORT ON GUEST LECTURE

TITLE: MEMORY MANAGEMENT

DATE: 19/7/2015

The guest lecture on '**Memory Management**' was arranged by the Cyber Tech Association, PG and Research Department of Computer Science on 19/7/2015. The resource person was **Mr.Mahesh** from Periyar University.

He explained that memory management is the functionality of an operating system which handles or manages primary memory and moves processes back and forth between main memory and disk during execution.

He expounded memory management keeps track of each and every memory location, regardless of either it is allocated to some process or it is free. It checks how much memory is to be allocated to processes. It decides which process will get memory at what time. It tracks whenever some memory gets freed or unallocated and correspondingly it updates the status. He neatly described the Process Address Space with the types of memory Addresses like Symbolic addresses, the addresses used in a source code with the basic elements like variable names, constants, and instruction labels, Relative addresses stating compiler converts symbolic addresses into relative addresses at the time of compilation.

He also elaborated the Static loading and Dynamic Loading, Static linking and dynamic linking, Swapping, Memory Allocation, Fragmentation, Paging and Address translation. At last

he described the Page map table that is used to keep track of the relation between a page of a process to a frame in physical memory.

Ms.S.Sudha, the Head of the department welcomed the gathering and Ms.M.Jothi, Assistant Professor, Dept. of Computer Science gave the vote of thanks. The guest lecture was organized with the cooperation of the staff of the department The students were greatly satisfied by learning the categories of memory management and their applications on different fields. The lecture was a big success at the outset.