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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1	Name of the Activity/Event	Guest Lecture on “ Data Communications and Networking ”		
2	Date of Activity/Event	09/01/2022 to 10/01/2022		
3	Organized by	Department of Electronics And Communication Engineering		
4	Place of Activity/event	Visvesvaraya Auditorium		
5	Resource persons / guest / organization	Mr.Dhanancheziyan Jayachandiran Technical Consultant and Lead Centre of Excellence Inflow Technologies Pvt Ltd, Indira nagar Bangalore 560038		
6	Type of activity/Event	Guest Lecture		
7	Activity/Event objectives	1.This program serves as a platform for students to enable seamless exchange of data between any two points in the world. 2. This exchange of data takes place over a computer network.		
8	Participation	Students	Faculty	Total Participation
		135	-	135
9	General remarks	1. Introduction To Communication. 2. Introduction To Networking		
10	Suggested Improvements			
11	Enclosures	1. Program report with Snapshots 2. Attendance sheet		
12	Signature of Co-ordinator			

The Electronics and Communication Engineering department has organized a **Guest Lecture** on " **Data Communications and Networking**" from **09/01/2022 to 10/01/2022**, The Resource person is **Mr. Dhanancheziyan Jayachandiran** Technical Consultant and Lead Centre of Excellence Inflow Technologies Pvt Ltd, Indira nagar Bangalore.

The III B.Tech students from the ECE department had attended this Lecture. Total of **135** students attended to this session.



Resource Person is explaining about Communication and Networking

In this session resource person covered the syllabus which was related to their curriculum. On the first day he started the session by introducing himself and importance of data communication networks in present Scenario and also application layer protocols and iTs applications like FTP,HTTP,TFTP and X- server and E-MAIL.. Later on he discussed some basics which were related with respect to syllabus and the overview of physical layer and data link layer .

A system of interconnected computers and computerized peripherals such as printers is called computer network. This interconnection among computers facilitates information sharing among them. Computers may connect to each other by either wired or wireless media.

The Cellular networks are high-speed, high-capacity voice and data communication networks with enhanced multimedia and seamless roaming capabilities for supporting cellular devices. With the increase in popularity of cellular devices, these networks are used for more than just entertainment and phone calls. They have become the primary means of communication

for finance-sensitive business transactions, lifesaving emergencies, and life-/ mission-critical services such as E-911. Today these networks have become the lifeline of communications.

Data communications to occur, the communicating devices must be part of a communication system made up of a combination of hardware (physical equipment) and software (programs). The effectiveness of a data communications system depends on four fundamental characteristics: **delivery, accuracy, timeliness, and jitter..**



Students Sharing the Information Regarding this Session

In the next session he covered the introduction to protocols like bootstraps, domain name system and network file system and overview of connection oriented and connection less transport layers like UDP,TCP. and introduction to framing and error control protocols like HDLC,PPP and overview of complete congestion control and quality of service in layers and protocols.

A router transmits **its distance vector to each of its neighbors** in a routing packet. Each router receives and saves the most recently received distance vector from each of its neighbors.



Gathering with the Guest

Confidentiality he discussed with real time examples and the session was made really interactive by providing an opportunity to suggest a solution to real life scenario with the help of images and videos which were given by the resource person. Total 135 students were participated in the session.