



K.S.INSTITUTE OF TECHNOLOGY, BANGALORE – 560109



DEPARTMENT OF
COMPUTER & COMMUNICATION ENGINEERING



REPORT Technical Talk on

“ON Beyond Wires And Waves -Internet Communication & Networking Protocols Demystified “

Date of conduction: 11 January 2024

Venue: KSIT Conference hall, Ground Floor

Time: 10:30AM - 12:30 PM

Duration: 2 Hours

Sponsoring Bodies/ Associating Organization: NA

Expert details — with photo

Name: Mr.Akhil Mohan

Designation: Solution Architect

IT Organisation : Akamai Technologies



Brief Profile about the Expert:

Mr.Akhil Mohan, is a Telecommunications Engineer (2013 batch), graduated from KSIT, Bangalore. Akhil is currently working as **Solution Architect** at Akamai Technologies, a leading CDN company. He is an **AWS Certified Solutions Architect Professional**, **Google Certified Professional Cloud Architect**, and **Cisco Certified Network Associate (CCNA)**.

Being an active individual who has a craving for innovation, he has participated and won multiple national level and state level awards during his engineering days. He was awarded the first place in state level for his innovative idea on a device which can write on air. Teaching is his passion and Physics and Cloud Computing is his subject of interest. He has taught JEE-Physics for 11th and

12th standard students at Christ PU college and MCC PU college in Bangalore. He follows Indian economy, and Finance.

Description of the Event:

The internet is not really radio waves, even though it can be carried that way. If you happen to have internet through a microwave service, then that is in fact the way you receive it. The way most people get internet is through cable. Cable does have a single wire running down the middle of it that carries the radio signal than encodes the bits that comprise what we know of as the Internet. You know it comes in as a radio wave because you need a modem to see it. A modem is a radio device that modulates and demodulates the radio waves that carries the TCP/IP signal that our computer interprets for us as the Internet. The fact that a lot of information can be carried on that small wire is just a fact of physics. The higher the frequency radio wave you use, the more information you can cram into it. Light waves are much higher frequency than radio waves, and once we all get fiber to our homes we will be amazed at how fast it is. Those optical fibers are hair-thin, but again, it's just a matter of wavelength that gives it that power to carry information.

A network protocol is a set of established rules that specify how to format, send and receive data so that computer network endpoints, including computers, servers, routers and virtual machines, can communicate despite differences in their underlying infrastructures, designs or standards.

Objectives / key highlights:

- Understanding about the **Wires and Waves – Internet Communication**
- Building the knowledge about **Networking Protocols Demystified**

Participant details:

- No. of participants in total: 53
- Students of CCE Dept.-53
- Faculty: Prof.Nagajyothi, (CCE)
- Faculty: Prof.Shashikala.H,(CCE)

Photos:



Addressing the gathering by Principal



Talk on beyond wires and waves Internet Communication



Presenting memento to the guest



Students listening to technical talk

Outcomes/Benefits:

- Students understood about the Wires and Waves- Internet Communication.
- Students gained the knowledge on the networking protocols.

Attachments:

1. Communication with Resource person
2. Resource person Profile
3. Evaluation and Feedback

CO/PO&PSO mapping -CCE

CO/PO& PSO	PO1	P02	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Event (Technical Talk)	-	-	-	-	-	02	-	-	-	02	-	02	02	-

PSO1: To understand and apply the concepts to design and develop solutions in computer and communication Engineering.

PSO2: To use the inculcated experiential learning for research and develop inventive solutions for societal benefit while ensuring security with moral values and ethics.

T. Naga Jyothi
Event Coordinator

Dr. Chanda V. Reddy
Head - CCE

Dr. Dilip Kumar K
Principal, KSIT