



Expert Lecture Report on

“IP Protocol and Addressing in the Internet”

23rd September, 2021



**S. N. Patel Institute of Technology &
Research Centre Umrakh- Bardoli**

Computer Science & Engineering department

Report Prepared by: Prof. Zinal G. Solanki

VENUE

(Online Mode)



Webinar Topics	IP Protocol and Addressing in the Internet
Date	23/09/2021, Thursday 11:20 pm onwards
Department & Year	3 rd Year Computer Science & Engineering
Venue	Google Meet Platform
Topic Expert	Prof. Akhilesh Ladha, Lecturer (Class-2), Information Technology Department, R. C. Technical Institute, Ahmedabad.
Event Co-ordinator	Prof. Zinal G. Soalnki



S. N. Patel Institute of Technology & Research Centre, UmraKh
(A Vidyabharti Trust Institution)

**Computer Science &
Engineering Department
Organised Expert Lecture on**

**IP PROTOCOL AND ADDRESSING
IN THE INTERNET**

Date: 23/09/2021
Time: 11:20 am onwards



Mr. Akhilesh Ladha
Lecturer (Class-2)
Information Technology Department
R. C. Technical Institute,
Ahmedabad

Prof. Zinal G. Solanki
Coordinator
SNPIT & RC, UmraKh

Prof. Viral H. Panchal
I/C Head, CSE
SNPIT & RC, UmraKh

Dr. Piyush S. Jain
Principal
SNPIT & RC, UmraKh

Vidyabharti Campus, At & Po Baben, Ta: Bardoli, Dist: Surat, Pin: 394601 | Contact No.: 9925 777 117

Topics Covered in Webinar

- What is Internet Protocol?
- IP Versions
- IPv4 Header
- IPv4 Address Classification
- Limitation of IPv4
- Why IPv6 ?
- IPv6 Header
- IPv6 Address Classification

Objective of expert lecture:

The **Internet Protocol (IP)** is the network layer communications protocol in the **Internet Protocol** suite for relaying datagrams across network boundaries. An IP address is a unique address that identifies a device on the internet or a local network. IP stands for "Internet Protocol," which is the set of rules governing the format of data sent via the internet or local network. An IP address is a string of numbers separated by periods.

All of these things mean it's possible to quickly and automatically produce models that can analyze bigger, more complex data and deliver faster, more accurate results – even on a very large scale. And by building precise models, an organization has a better chance of identifying profitable opportunities – or avoiding unknown risks.

About expert Speakers:

Prof. Akhilesh Y. Ladha, Lecturer (Class-2), R. C. Technical Institute, Ahmedabad

He has conferred the bachelor's degree in Information Technology with First Class Distinction from Veer Narmad South Gujarat University, Surat in 2007. Mastered the field of Computer Science and Engineering with First Class Distinction from Indian Institute of Technology, Bombay in 2010. He is pursuing Ph.D. in area of intelligent transportation system on topic Public transit system from Gujarat University (batch -2017). He is a certified counsellor with specialization in Adolescent Counselling and Career Counselling. Also, he is a YouTuber who is consulting YouTube channel named Engineering Funda- A complete video lecture channel for all engineering courses.

Currently, serving as a Lecturer (Class-2), Information Technology Department in R. C. Technical Institute at Ahmedabad.

His areas of interest includes Algorithms, Protocol Designing, Protocol Optimization, Graph Theory and Theory of Computation.

Outcome of Webinar:

Mr. Akhilesh Y. Ladha has delivered such an ergastic presentation for What is Internet Protocol, IP Versions, IPv4 header & classification, Why IPv6. He explained all the terminology also future requirement of IPv6 with example. The whole session was interactive and students enjoyed a lot during the session to learn new things.

IP Protocol and Addressing

Akhilesh Ladha
Lecturer (Class-2)
Information Technology Department, RCTI, Sola, Ahmedabad
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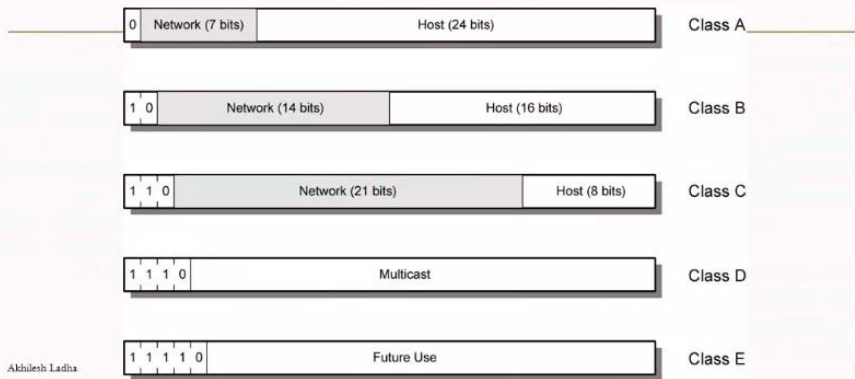
Akhilesh Ladha

1

Akhilesh Ladha is presenting

IP Protocol and Addressing

IPv4 Address



Akhilesh Ladha

6



You



Akhilesh Ladha



Akhilesh Ladha



43 others

fkn-khem-jre



Akhilesh Ladha is presenting

IP Protocol and Addressing

IPv6 Header

Bit: 0 4 12 16 24 31

Version Traffic Class Flow Label

Payload Length Next Header Hop Limit

Source Address

Destination Address

10 : 32 bits = 40 octets

Akhilesh Ladha 13

12:02 PM | fkn-khem-jre

49

Akhilesh Ladha Akhilesh Ladha

20_02 Fenil Patel Zinal Solanki

19_09 Shrey Chauh... 19_23 Vatsal Maisu...

41 others You

Inbox (10,627) - solankizinalg@g x | Inbox (18) - zinal.solanki@snpit x | (3) WhatsApp x | Meet - fkn-khem-jre x

meet.google.com/fkn-khem-jre

Akhilesh Ladha is presenting

IP Protocol and Addressing

Thank You

Akhilesh Ladha 17

12:12 PM | fkn-khem-jre

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Akhilesh Ladha Akhilesh Ladha 19_60 MUSKAN...

20_02 Fenil Patel 19_09 Shrey Ch... Zinal Solanki

19_23 Vatsal M... 39 others You

Windows Taskbar: File Explorer, Google Chrome, PowerPoint, System Tray: 12:12 23-09-2021



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Certificate of Appreciation

This certificate is awarded to

Akhilesh Ladha

has rendered excellent service as an expert speaker in

Expert Lecture on

“IP protocol and addressing in the internet”

arranged by

Prof. Zinal Solanki

Dr. Piyush S. Jain
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