



NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

REPORT – GUEST LECTURE

DEPARTMENT OF MCA

(21st January 2026)

Topic: Guest Lecture on Network Security Threats and Defense Mechanisms

Date: 21st January 2026

Timing: 09.00 AM-11 AM.

Programme Co-ordinator:

Prof. Diksha Dhiman

Assistant Professor,

Department of MCA.

Convenor: Dr. V. Asha,

Professor & Head

Department of MCA.

No. of Participants: 40 (I MCA A)

Details of the Resource Persons:

Ms. Sangeetha Sangangouda Dambala

Data Engineer

State Street Global Advisors, Bangalore.

Profile of the Expert

Ms. Sangeetha Sangangouda Dambala is a Data Engineer at State Street, Bangalore, with hands-on experience in designing and optimising end-to-end data pipelines using Azure and Snowflake. She specialises in ETL Processes, Data Integration, Database Management, and Automation of data workflows to support analytics and business intelligence. Ms. Sangeetha has worked extensively with modern tools such as DBT, SQL, Python, and JSON-based pipelines, and has contributed to building scalable data solutions and dashboards for data-driven decision-making. She holds a Master of Computer Applications (MCA) Degree from New Horizon College of Engineering, VTU, with a CGPA of 8.73, and has been recognised as the Best Student of the Year. With a strong foundation in computer networks, programming, databases, and full-stack development, she brings valuable industry-oriented insights and practical knowledge to academic audiences.

Poster



Guest Talk

Network Security Threats and Defense Mechanisms

📅 21st January 2026

🕒 09:00 AM to 11:00 AM

📍 B 308

👥 1st Semester MCA Students



Ms. Sangeetha Sangangouda Dambala
Data Engineer
State Street Global Advisors

Faculty Coordinator

Ms. Diksha Dhiman

Assistant Professor - MCA

Convenor

Dr. V Asha

Professor and HoD - MCA

Organised by

Master of Computer Applications | Computer Society of India

Objective

The objective of the session is

- Introduce the fundamentals of computer networks and network security, enabling students to understand how data communication occurs in modern digital systems.
- Provide practical insights into common network security threats and vulnerabilities faced in real-world environments.
- Demonstrate defense mechanisms such as firewalls, encryption, and secure communication practices through real-time industry examples.
- Encourage awareness of secure network design, and best practices, motivating students to build reliable and secure networking solutions.

Content

The guest lecture covered fundamental and advanced concepts related to computer networks and industry practices. The key topics discussed included:

- Overview of computer networks and their importance in modern systems
- Common network security threats and vulnerabilities
- Defense mechanisms such as firewalls, encryption, and secure communication protocols
- Role of networking in cloud platforms and data-driven environments
- Practical insights from industry use cases and real-time examples
- Career guidance, required technical skills, and industry expectations

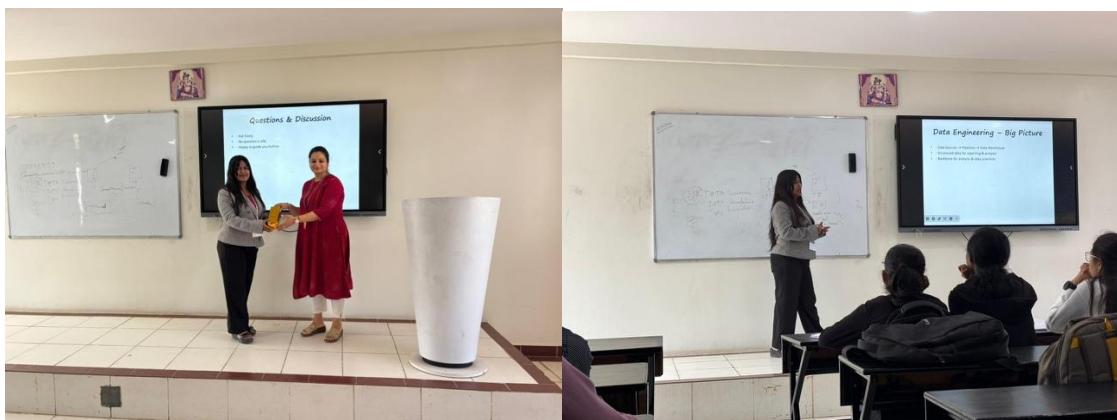
The session also included interactive discussions and a question-and-answer segment to clarify student queries.

Summary of Content

The lecture provided a comprehensive overview of how computer networks function in real-world industry environments, with special emphasis on security threats and protection mechanisms. The speaker explained key concepts using practical examples and shared professional experiences to help students relate theoretical knowledge to actual applications.

The session highlighted the importance of secure network design, continuous monitoring, and upskilling to meet industry demands.

Snapshots from the Session



Outcome

After attending the guest lecture, students were able to:

- Understand real-world network security challenges and defense strategies
- Relate theoretical networking concepts to practical industry applications
- Gain awareness of emerging trends and tools used in the industry
- Improve analytical thinking and problem-solving skills
- Identify relevant career paths and certifications in networking and related domains
- Develop motivation to enhance technical and professional competencies

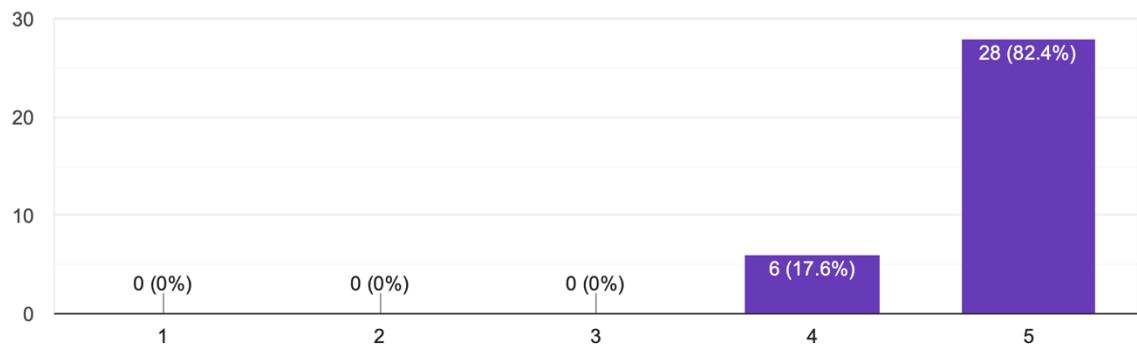
Attendance

List of MCA students who attended

Feedback

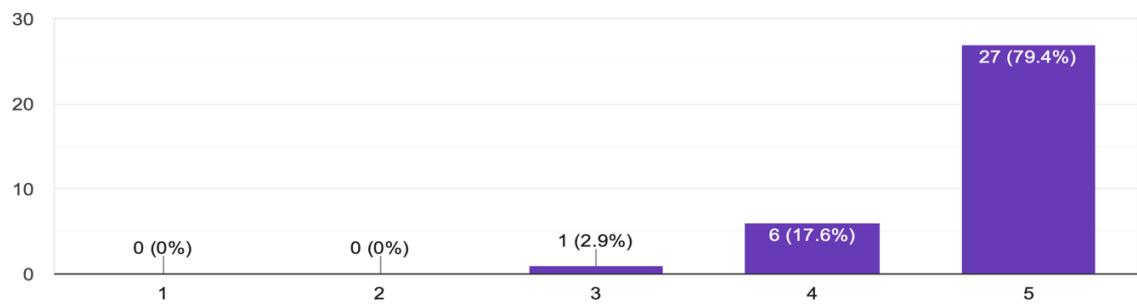
Quality of the training content

34 responses



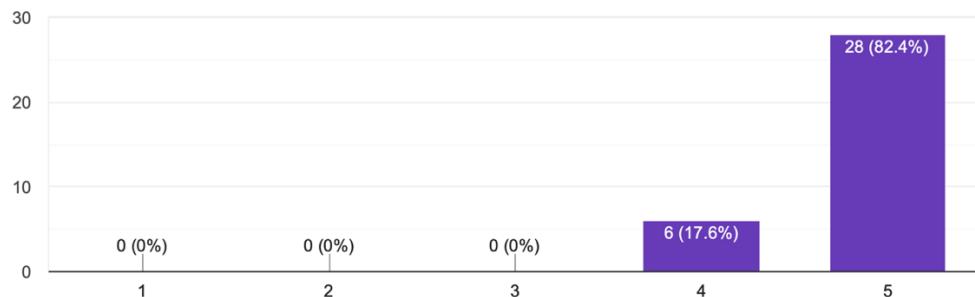
Clarity of the presentation.

34 responses



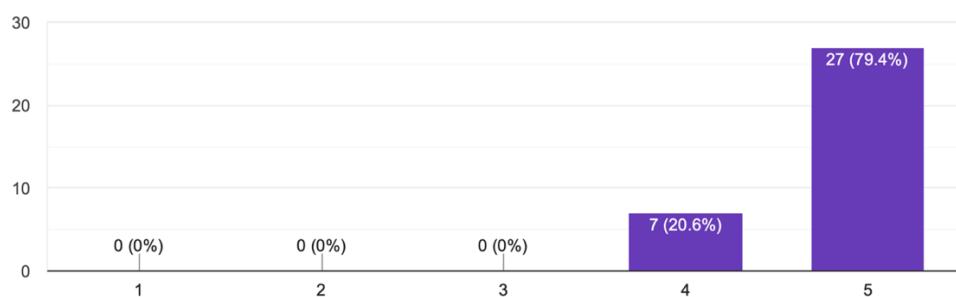
Effectiveness of the examples depicted during the session.

34 responses



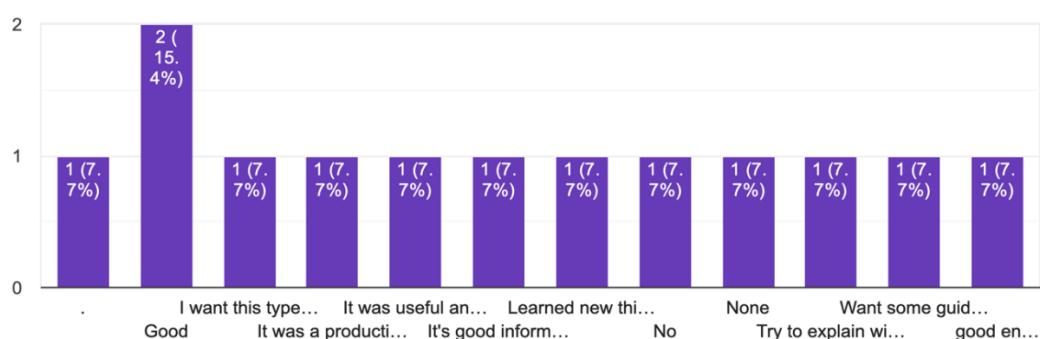
Rate the relevance of the topic to future study and work.

34 responses



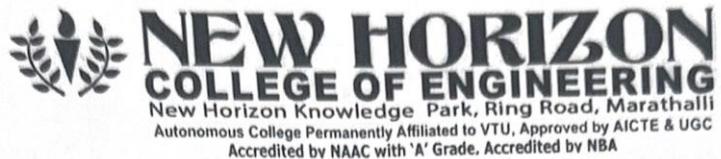
Comments if any

13 responses



Prof. Diksha Dhiman
Faculty Co-ordinator

Dr. V. Asha
Head of Department, MCA



DEPARTMENT OF MCA
AY 2025-26
ATTENDANCE SHEET OF PARTICIPANTS
GUEST LECTURE

Network Security Threats and Defense Mechanisms

RESOURCE PERSON: Ms. Sangeetha Sangangouda Dambala

Data Engineer, State Street Global Advisors, Bangalore

DATE: 21-01-2026

TIME: 09:00 am to 11:00 am

PARTICIPANTS: 1st Semester, MCA Students

VENUE: B308

SERIAL NO	USN NO	NAME	SIGNATURES
01	05MCA102-T	Ashitha U.K	
02	25MCA097-T	Ananya Kulkarni	
03	25MCA060-T	Srileshana .K	
04	25MCA040-T	Dhruvhi Saini .V.S	
05	25MCA002-T	D. Virjaya Lakshmi	
06	25MCA103-T	Faheen, M. Khan	
07	25MCA115-T	Arya. P. Kotharkar	
08	25MCA144-T	Aishwarya.S	
09	25MCA111-T	A. Shravani	
10	25MCA175-T	Deekshitha. N	
11	25MCA143-T	Impora	
12	25MCA160-T	Aryesha Natasha	
13	25MCA059-T	Disha. TD	

Guest Lecture – Network Security Threats and Defense Mechanisms
 DATED: 21.01.2026

SERIAL NO	USN NO	NAME	SIGNATURES
14	25MCA136-T	Ashid Jamadar	Ashid
15	25MCA048-T	H Channaveerla Gouda	Ch
16	25MCA057-T	V. Dhanush	Dhanush
17	25MCA130-T	Hemanth Kumar. P	Hemanth Kumar
18	25MCA043-T	Devadiga Shreyash Tatyarava	Shreyash
19	25MCA065-T	Aman B Shetty	Aman Shetty
20	25MCA162-T	Ameenuddin A.S	Ameenuddin
21	25MCA045-T	Kalyan.B	Kalyan
22	25MCA099-T	Chandev. S.B	Chandev
23	25MCA135-T	Charan.M	Charan
24	25MCA073-T	H NaveenGouda	Naveen
25	25MCA167-T	Balaji. A.V	Balaji
26	25MCA146-T	Beero Jelcor	Beero
27	25MCA145-T	BharathKumar. V	V.B.Kumar
28	25MCA170-T	Deekshith Kumar S	Deekshith
29	25MCA042-T	Kripalani Riddhi Suresh Kumar	Riddhi
30	25MCA133-T	Afresh	Afresh
31	25MCA079-T	Dibyo Jyoti	Dibyo
32	25MCA161-T	Basanta Gouda	Basanta
33	25MCA142-T	Darsha R	Darsha
34	25MCA028-T	Kecina	Kecina
35	25MCA007-T	Akash Malpani	Akash
36	25MCA104-T	Abhishek B. M.	Abhishek
37	25MCA072-T	ANKITA BALAKRISHNA	ANKITA

Guest Lecture – Network Security Threats and Defense Mechanisms

DATED: 21.01.2026

SERIAL NO	USN NO	NAME	SIGNATURES
38.	25MCA018-T	Abhijeet Teji	<u>A</u>
39.	25MCA156-T	Aditya M R	<u>Aditya</u>
40.	25MCA085-T	Hemanth	<u>Hemanth</u>

Dixit,
EVENT CO-ORDINATOR

Yuv
Head of the HOD MCA
Department of Master of Computer Application
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Ring Road Bellandur Bangalore - 560 063