



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

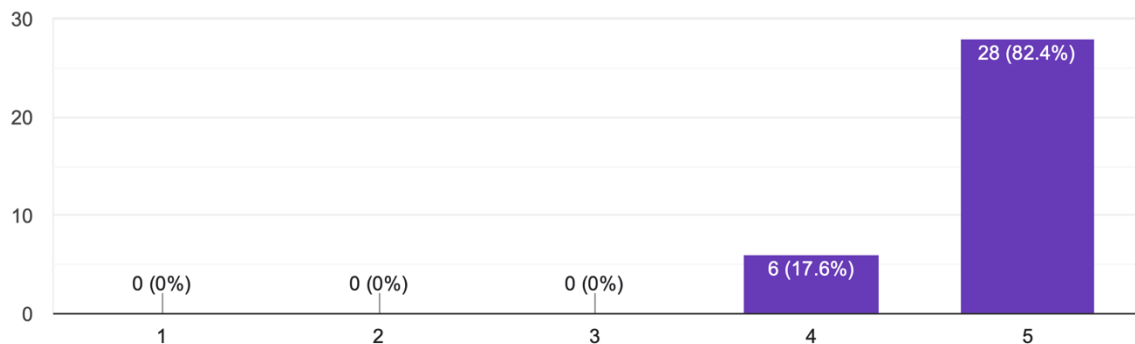
Attendance

List of MCA students who attended

Feedback

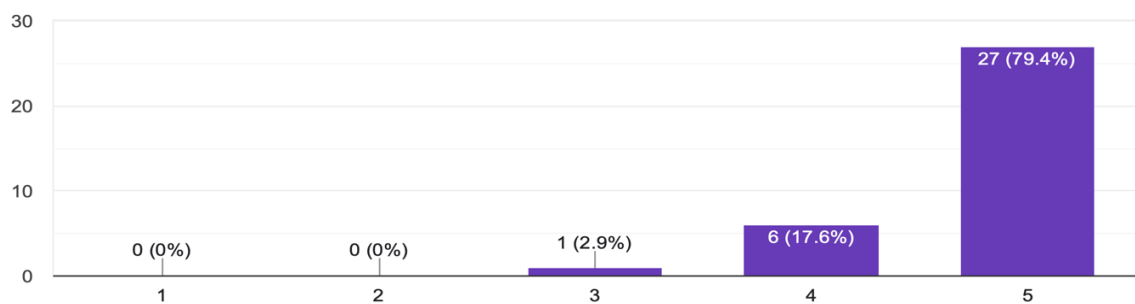
Quality of the training content

34 responses



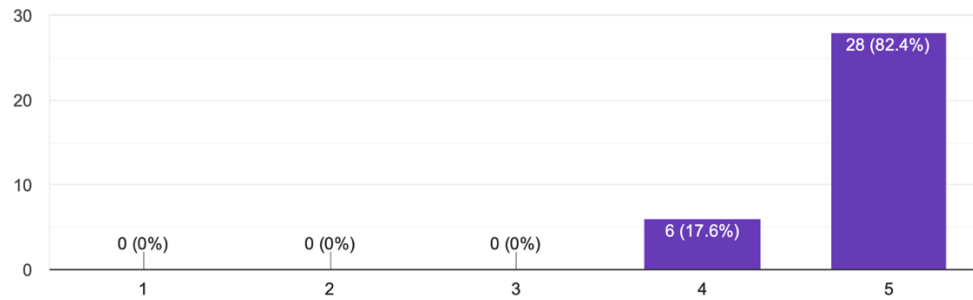
Clarity of the presentation.

34 responses



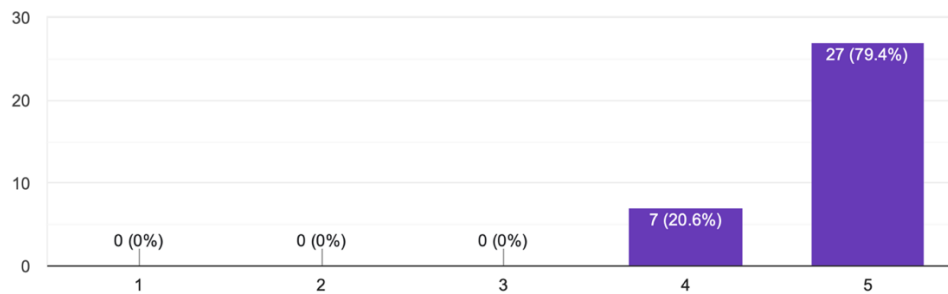
Effectiveness of the examples depicted during the session.

34 responses



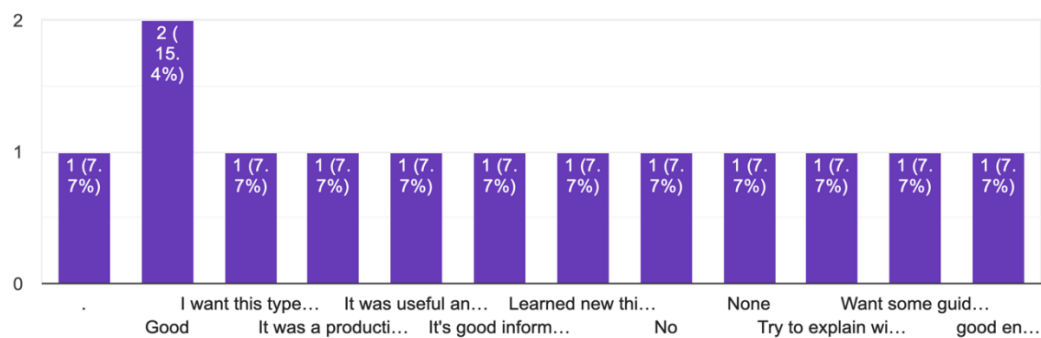
Rate the relevance of the topic to future study and work.

34 responses



Commentss if any

13 responses



Prof. Diksha Dhiman

Faculty Co-ordinator

Dr. V. Asha

Head of Department, MCA

Head of the Department
Department of Master of Computer Applications
NEW HORIZON COLLEGE OF ENGINEERING
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New Horizon Knowledge Park, Ring Road, Marathalli
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DEPARTMENT OF MCA

AY 2025-26

ATTENDANCE SHEET OF PARTICIPANTS GUEST LECTURE

Network Security Threats and Défense 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


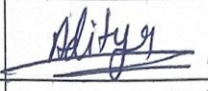
SERIAL NO	USN NO	NAME	SIGNATURES
01	25MCA102-T	Ashitha Uk	
02	25MCA097-T	Ananya Kulkarni	Ananya
03	25MCA060-T	Sulochana .K	Sulochana
04	25MCA040-T	Dhruvi Sme. V. S	
05	25MCA002-T	D. Vijaya lakshmi	
06	25MCA103-T	Farheen M Khan	
07	25MCA115-T	Arya P Kotharkar	
08	25MCA144-T	Aishwarya S	Aishwarya S
09	25MCA111-T	A. Shravan	Shravan. A
10	25MCA175-T	Deekshitha N	Deekshitha. N
11	25MCA143-T	Impora	Impora. P
12	25MCA160-T	Ayesha Natasha	Ayesha
13	25MCA059-T	Disha TD	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	<u>Ashid</u>
15	25MCA048-T	H Channaveera Gowda	<u>Ch</u>
16	25MCA057-T	V. Dhanush	<u>Dhanush</u>
17	25MCA130-T	Hemanth Kumar. P	<u>Hemanth Kumar</u>
18	25MCA043-T	Devadiga Shreyash Tayanna	<u>Shreyash</u>
19	25MCA065-T	Aman B Shetty	<u>Aman B Shetty</u>
20	25MCA162-T	Ameenuddin A.S	<u>Ameen</u>
21	25MCA045-T	Kalyan B	<u>Kalyan</u>
22	25MCA099-T	Chanaveer. S.B	<u>Chanaveer</u>
23	25MCA135-T	Charan M	<u>Charan</u>
24	25MCA073-T	H Naveel Gowda	<u>Naveel</u>
25	25MCA167-T	Balaji. A.V	<u>Balaji</u>
26	25MCA146-T	Beera utkar	<u>Beera</u>
27	25MCA145-T	Bharathkumar. V	<u>V.B. Kumar</u>
28	25MCA170-T	Deekshith Kumar S	<u>Deekshith</u>
29	25MCA042-T	Kripalani Riddhi Suresh Kumar	<u>Riddhi</u>
30	25MCA133-T	Abresh	<u>Abresh</u>
31	25MCA079-T	Diby Jyoti	<u>Diby</u>
32	25MCA161-T	Basana Gowda	<u>Basana</u>
33	25MCA142-T	Darsha R	<u>Darshan</u>
34	25MCA028-T	Kecina	<u>Kecina</u>
35	25MCA007-T	Aakarsh Malpani	<u>Aakarsh</u>
36	25MCA104-T	Abhishek B. M.	<u>Abhishek</u>
37	25MCA072-T	ANKITA BALAKRISHNA	<u>Ankita</u>

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

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


EVENT CO-ORDINATOR


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