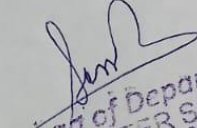




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कोटा-324005 राजस्थान
ईमेल-mbpgcollege@yahoo.com

**DEPARTMENT OF COMPUTER SCIENCE
NOTICE**

This is to inform all the students of BCA-I yr that your Seminar presentation is organizing from 27/09/2022(Tuesday). All Group members be ready with your presentation.
Students of all Departments can attend Seminar.


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COMPUTER SCIENCE
Maa Bharti P. G. College
Mahaveer Nagar-III, Kota (Raj.)
(HOD)

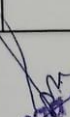
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Seminar Group	Seminar Topic
(i) Lakshay Sonena (ii) Fardeen Mansoori (iii) Jaidev Jaidev Khan (iv) Sameer Somariya	Cyber Security
(i) Janvi Jain (ii) Mohit Bhargava (iii) Mohit Vijay (iv) Gaurav Vijay (v) Pratyush Gupta	Networking
(i) Lovely Arora (i) Dharmendra (ii) Anushka (ii) Deepak Rathore (iii) Aditya Tiwari (iv) Hari Om Yadav (v) Harshvardhan	Brain Gate System
(i) Kuldeep Singh (ii) Mayank Nagar (iii) Mayank Vijay (iv) M. Faizan (v) M. Kaif	Artificial Passenger
(i) M. Ishan Khan (ii) Nikhil Arora Dwivedi (iii) Piyush Kumar Sutar (iv) Sourabh Nagar (v) Sarthak Bhausaar	Genetic Engineering


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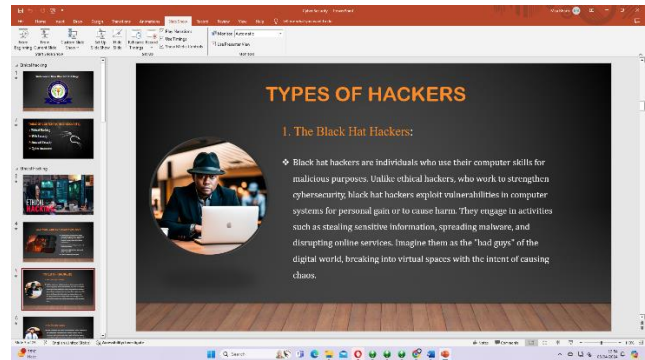
Seminar Group	Seminar Topic
1. Kuldeep Nagar 2. Jasvinder Singh 3. Khushi Suman 4. Rashee Vijay 5. Sunidhi Bindea	Computer Science Engineering
1. Aarushi Gulati 2. Namrata Nagar 3. Khushi Rathore 4. Keitike Bhatt	Touch Screen Technology
1. Lavish Singh Panwar 2. Vansh Rajawat 3. Ronak Vaishnav 4. Tanush Sharma 5. Pushpendra Mehta	Augmented reality
1. Priyanshu 2. Rohit Singh Hada 3. Pooja Kumar 4. Tapan Bhardwaj 5. Mayank Shringi	Space Robotics
1. Satnam Meena 2. Satyam Gautam 3. Sushant Shringi 4. Manish Sutar 5. Toshik Raj	Artificial Intelligence


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Seminar Group	Seminar Topic
1. Aman Yadav 2. Ashok Suman 3. Ayush Sharma 4. Bhupendra Sharma 5. Ayush Kundwani	Nanotechnology
1. Gori Kumari Chorasiya 2. Anushka Goyal 3. Lovely Arya 4. Ruchi Ghatia 5. Sitanshu Patel	Communication network design
1. Harshit Gaur 2. Kunal Singh 3. Shwanya Singh 4. Vaibhav Gaur 5. Vansh Arora	Machine Learning
1. Jitendra Sahu 2. Anmol Meena 3. Ashish Meena 4. Bhupendra Patidar 5. Khushi Ram	Solar Collector
1. Harshit Gautam 2. Hari Om Nagar 3. Pawan Nagar 4. Ankit Koli 5. Kuldeep Soni	Embedded Web Technology


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COMMON SECURITY THREATS



MALWARE

Malware is a type of software designed to harm your computer or steal sensitive information. This can include viruses, spyware, trojans, and ransomware.



PHISHING

Phishing is a type of social engineering attack where attackers trick users into giving away sensitive information such as usernames, passwords, and credit card details.



SQL INJECTION

In SQL injection attacker manipulates a web application's input fields to execute malicious SQL commands, potentially leading to unauthorized access or data manipulation within the application's database.

Slide 12 of 26 English (United States) Accessibility: Investigate

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PASSWORD SECURITY BEST PRACTICES



- ✓ Create strong and unique passwords
- ✓ Avoid password reuse
- ✓ Implement multi-factor authentication (MFA)
- ✓ Use a password manager
- ✓ Avoid sharing passwords with others
- ✓ Be mindful of public Wi-Fi
- ✓ Change your passwords regularly

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1 **WELCOME**

2 **COMPUTER NETWORKING**

3 **What is Computer Networks ?**

4 **Types of Networks-**

5 **LOCAL NETWORKS:-**

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COMPUTER NETWORKING

AGENDA (TOPIC)

- ❖ Introduction to Computer Network
- ❖ Types of Networks
- ❖ Networks Devices
- ❖ Networking topologies
- ❖ Identifying Nodes in a Networked communication
- ❖ Domain Name System

What is Computer Networks ?

Networks :-

A Group of two or more similar things or people interconnected with each other is called Network

Computer Networks :-

A Group of two or more computer interconnected with each other.

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Wide Area Network (WAN)

Wide area network contain computer and other LANs and MANs which are spread across different geographical location of a country or in different countries or continents. A WAN could be formed by connecting a LAN to other LANs via wired/wireless media. The inter is a largest WAN that connect billions smartphones and millions of LANs from different continents.

STAR TOPOLOGY :

In star topology all nodes are connected with the central device called hub and the sharing of data is only possible through hub

TREE TOPOLOGY :

In this topology ,all the nodes are connected like a branches of a tree.The combination of bus and star topology is called tree topology

MESH TOPOLOGY :

In this topology ,each an every node is directly connected with each other ,so we can send directly send the data to the destination machine without going to intermediate machine .

Domain Name System (DNS) :

The Internet is a vast ocean of information, with millions of websites stored on servers connected to an IP address. To access a website, we need to enter its IP address on our web browser. Domain names, or hostnames, are assigned to unique IP addresses assigned to each server, making it easier to remember names. Examples of domain names and their mapped IP addresses include ncert.nic.in, cbse.nic.in, and wikipedia.org.

Domain Name	IP Address
ncert.nic.in	164.100.60.233
cbse.nic.in	164.100.107.32
Mhrd.gov.in	164.100.163.45
Wikipedia.org	198.35.26.96

❖ **Domain Name Sever :**

A DNS server is responsible for domain name resolution, which involves obtaining the IP address corresponding to a web server's name. The HTTP protocol retrieves this information from the DNS server, which maintains a database of domain names and their corresponding IP addresses. The DNS servers are placed in hierarchical order, with 13 root servers at the top and other servers below.

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WELCOME TO THE PRESENTATION OF ENTITY-RELATIONSHIP (ER) MODEL

To BE PRESENTED BY-

VANSH ARORA, HARSHIT GAUR,
LAVISH PANWAR,
KAPIL SINGH CHAUHAN, TANUSH SHARMA

35°C Place

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DESIGNING SYMBOLS OF ER MODEL

	Strong Entity		Derived Attributes
	Attributes		Primary Key
	Weak Entity		Diamond
			Connector

COMPONENTS OF ER MODEL -

```

graph TD
    ER[ER Model] --> Entity[Entity]
    ER --> Attribute[Attribute]
    ER --> Relation[Relation]
    
    Entity --- WE[Weak Entity]
    
    Attribute --- KA[Key Attribute]
    Attribute --- CA[Composite Attribute]
    Attribute --- MA[Multivalued Attribute]
    Attribute --- DA[Derived Attribute]
    
    Relation --- OTO[One to one]
    Relation --- OTM[One to many]
    Relation --- MTO[Many to one]
    Relation --- MTM[Many to many]
  
```

KEY ATTRIBUTE -

- THE KEY ATTRIBUTE IS USED TO REPRESENT THE MAIN CHARACTERISTICS OF AN ENTITY.
- IT REPRESENTS A PRIMARY KEY.
- THE KEY ATTRIBUTE IS REPRESENTED BY AN OVAL SHAPE WITH THE TEXT UNDERLINED.

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