

Week1

Concept of Cyber Space and International Security

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Cyber Space and International Security

- What is Cyber Space?
- Components of Cyber Space.
- Importance of Cyber Space in Modern Society.
- Cyber Threats in the Digital World.
- Cyber Space and International Security.
- Importance of Cyber Security for International Stability

Cyber Space and International Security

- International Cooperation in Cyber Security.
- Future Challenges in Cyber Space.

cyber space

- Cyber space is a virtual environment created by interconnected computer systems and networks across the world.
- People communicate, conduct business, study, and store information using the internet and computer networks. All of these activities take place in what is known as **cyber space**.

Cyber space enables many activities such as:

- Email communication
- Social media interaction
- Online education
- E-commerce and online banking
- Digital entertainment
- Cloud storage and data sharing

Components of Cyber Space

- Computer Systems
- Networks
- Software and Applications
- Data and Information
- Users

Importance of Cyber Space in Modern Society

- Communication
- Business and Economy
- Education
- Government Services
- Information Access

Cyber Threats in the Digital World

- Hacking
- Malware
- Phishing
- Digital spying
- Cyber Terrorism

Cyber Space and International Security

cyber attacks can disrupt:

- Electricity and power systems
- Banking and financial networks
- Transportation systems
- Military communication systems
- Government databases

Importance of Cyber Security for International Stability

- Cyber security plays an important role in maintaining international peace and stability. Several factors highlight its importance.
- **Protection of Critical Infrastructure**
- **National Defense**
- **Economic Protection**
- **Protection of Personal Data**
- **Prevention of Cyber Warfare**

International Cooperation in Cyber Security

- Sharing cyber threat intelligence
- Developing international cyber security laws
- Conducting joint investigations against cyber criminals
- Establishing global cyber security organizations
- Promoting responsible behavior in cyber space

Future Challenges in Cyber Space

- More sophisticated cyber attacks.
- Increased cyber warfare between nations.
- Data privacy concerns.
- Security risks in smart devices and connected systems.