**UNIT V**

**SESSION 1**

**Topic:** Physical design firewalls

**Date: 30.9.13**

**Period: 8**

**Web links**

<http://freepdfz.com/ppt/principles-of-information-security-chapter-6-37023998.html>

<https://www.youtube.com/watch?v=0_EVfWpL6L4>

<http://webfuse.cqu.edu.au/Courses/2008/T3/ECOM20002/Resources/Lecture_Slides/01303_Ch09.ppt>

1. **Suggested Activity: puzzle**

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**Conclusion :**

By the above activities the students got an idea about Physical design firewalls

**SESSION 2**

**Topic:** Firewall categorized by generation & structure

**Date: 1.10.13**

**Period: 5**

**Web links**

<http://freepdfz.com/ppt/principles-of-information-security-chapter-6-37023998.html>

<https://www.youtube.com/watch?v=0_EVfWpL6L4>

<http://webfuse.cqu.edu.au/Courses/2008/T3/ECOM20002/Resources/Lecture_Slides/01303_Ch09.ppt>

**Suggested Activity: recall by keywords**

1. Firewall

Any device that prevents a specific type of information from moving between the untrusted network outside and the trusted network inside

1. Packet filtering firewalls

Examines every incoming packet header and selectively filters packets based on address, packet type, port request, and others factors

1. Application-level firewall

Also called proxy server

1. Stateful inspection firewalls

Keeps track of each network connection established between internal and external systems using a state table

1. Static filtering firewalls

Allow entire sets of one type of packet to enter in response to authorized requests

**Suggested Activity: Puzzle**



**Conclusion :**

By the above activities the students got an idea about Firewall categorized by generation & structure

**SESSION 3**

**Topic:** Firewall architecture

**Date: 1.10.13**

**Period: 6**

**Web links**

<http://freepdfz.com/ppt/principles-of-information-security-chapter-6-37023998.html>

<https://www.youtube.com/watch?v=0_EVfWpL6L4>

<http://webfuse.cqu.edu.au/Courses/2008/T3/ECOM20002/Resources/Lecture_Slides/01303_Ch09.ppt>

**Suggested activity: Recall by keywords**

1. Firewall

Any device that prevents a specific type of information from moving between the untrusted network outside and the trusted network inside

1. Packet filtering firewalls

Examines every incoming packet header and selectively filters packets based on address, packet type, port request, and others factors

**Suggested activity: crossword**

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**Conclusion :**

By the above activities the students got an idea about Firewall architecture

**SESSION 4**

**Topic:** Protecting remote connections

**Date: 7.10.13**

**Period: 7**

**Web links**

<http://webfuse.cqu.edu.au/Courses/2008/T3/ECOM20002/Resources/Lecture_Slides/01303_Ch09.ppt>

**Suggested activity: choose & defend**

1. Define SOCKS

The SOCKS system is a proprietary circuit-level proxy server that places special SOCKS client-side agents on each workstation

1. What is RADIUS?

The RADIUS system centralizes the management of user authentication by placing the responsibility for authenticating each user in the central RADIUS server

1. TACACS ?

Contains a centralized database, such as RADIUS, and validates the user’s credentials at the TACACS server

1. List three versions of TACACS
   1. TACACS
   2. Extended TACACS
   3. TACACS+

**Conclusion :**

By the above activities the students got an idea about Protecting remote connections

**SESSION 5**

**Topic:**

* + IDS
  + Types
  + Selecting IDS
  + Considerations

**Date: 7.10.13**

**Period: 8**

**Web links**

<http://webfuse.cqu.edu.au/Courses/2009/T3/COIT13211/Study_Schedule/module07.htm>

<https://www.youtube.com/watch?v=HJkWpECQuj8>

**Suggested activity: Crossword**

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**Conclusion :**

By the above activities the students got an idea about IDS & types

**SESSION 6**

**Topic:** IDSstrength & limitations, Honeypot & honeynet

**Date: 10.10.13**

**Period: 5**

**Web links**

<https://www.youtube.com/watch?v=Egf6BS8TeNk>

<https://www.youtube.com/watch?v=HJkWpECQuj8>

<http://jwfiles.net/99avpz4zmhyn/IS_notes-ppt_s.rar.html>

**Suggested activity: Puzzle**

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**Conclusion :**

By the above activities the students got an idea about IDSstrength & limitations, Honeypot & honeynet

**SESSION 7**

**Topic:** Cryptography tools

**Date: 10.10.13**

**Period: 6**

**Web links**

<http://jwfiles.net/99avpz4zmhyn/IS_notes-ppt_s.rar.html>

<http://www.utc.edu/Faculty/Li-Yang/CPSC4610/documents/UTC-Cryptography.ppt>

**Suggested activity: recall by keywords**

1. scanning & analysis tool purpose.

Scanner and analysis tools can find vulnerabilities in systems

1. Footprinting

Collecting IP addresses and other useful data Control measure designed to reduce accidental security breaches

1. Fingerprinting

Scanning all known addresses to make a network map of the target

**Suggested activity: rapid fire quiz**

1. Open port used for?

To send commands to a computer

1. Vulnerability scanners?

Capable of scanning networks for very detailed information

1. Packet Sniffers?

Can be used to eavesdrop on the network traffic

1. Encryption

Process of converting an original message into unreadable form by unauthorized individuals

**Conclusion :**

By the above activities the students got an idea about Cryptography tools

**SESSION 8**

**Topic:** Scanning & analysis tools, Access control devices

**Date: 23.10.13**

**Period: 3**

**Web links**

<http://www.eecs.yorku.ca/course_archive/2010-11/F/4482/CSE4482_07_ProtectionMechanisms_ScanningAnalysisTools.pdf>

**Suggested activity: Match the words**



**Conclusion :**

By the above activities the students got an idea about Scanning & analysis tools, Access control devices

**SESSION 9**

**Topic:** Physical security & physical access control

**Date: 23.10.13**

**Period: 4**

**Web links**

<http://www.utc.edu/Faculty/Li-Yang/CPSC4610/documents/Lecture9-protection.ppt>

**Suggested activity: Pick ‘n’ answer**

1. List some Certifications
   * CISSP and SSCP
   * Global Information Assurance Certification
   * Security Certified Professional
   * T.I.C.S.A. and T.I.C.S.E.
2. Define background check

Is an investigation into a candidate’s past

**Suggested activity:crossword**



**Conclusion :**

By the above activities the students got an idea about Physical security & physical access control