



Dempo Charities Trust's  
**DHEMPE COLLEGE OF ARTS & SCIENCE**  
Miramar, Panaji-Goa

**Network Security**

[2 Credits 30 hours]

**Course Objective:**

The course is intended to prepare the students for data security and handling of threats in computer network.

**Learning Outcome:**

The students will be able to solve basic network issues and understand the importance of data security in a computer networks.

**Course Contents**

1. Importance of network security : background and history, basic terminology to define network, information, and computer security. (4)
2. Threats, vulnerabilities, attacks: various types of attacks and hacks, sources of information on network and computer hacking. (4)
3. Encryption : Encryption and its practical application, ciphers and their application, digital signatures, digital certificates, and the concept of a public key infrastructure.(6)
4. Secure sockets layer (SSL) : SSL protocol, Microsoft Internet Explorer and Netscape Navigator.(4)
5. Email Security issues: sending, receiving, authenticating, and storing e-mail. secure e-mail protocols and different applications of encryption with e-mail ,e-mail as a weapon. (6)
6. Operating system security guidelines: operating systems, password guidelines and access controls. techniques used to break passwords, modems (3)
7. LAN security guidelines: policy based network management, honeypot systems, segmentation of LAN traffic(3)

**Reference:**

1. Neil Crowetz, INTRODUCTION TO NETWORK SECURITY
2. John E. Canavan, Fundamentals of Network Security

*Handwritten signature:*  
Ms S. Jpa Nark

Dempo Charities Trust  
**Dhempe College of Arts & Science**  
 Miramar - Goa.  
 Academic Year : 2016 - 17  
**SHORT TERM COURSE ATTENDANCE SHEET**

Name of the Course : **Network Security (20Hrs.)**

Topic : \_\_\_\_\_

Class :- **T.Y.B.Sc.**

Lecture No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Date:-	26/11	26/11	27/11	27/11	28/11	28/11	29/11	29/11	30/11	30/11	01/12	01/12	02/12	02/12	03/12	03/12	04/12	04/12	05/12	05/12
Time:-	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30	2:00-2:30
Roll no.	Name of the Student																			
135	Mr. Najeem Abdul	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
136	Mr. Wahab Abdul	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

*Abdul*  
 Mr. Shulpa Nair  
 Incharge



Dempo Charities Trust's  
DHEMPE COLLEGE OF ARTS & SCIENCE  
Miramar, Panaji-Goa  
**Department of Computer Science & IT**

**Report of Network Security**

Class: TYBSc Computer Science

Number of Students: 02

Fees charged: Rs 1000 per student

Duration: 20 hours

Aim: To learn network topologies setup, management and administration

Conducted in March 2017

Instructor: Mr Saurabh Naik

The course on Network Security was conducted for TYBSc Computer Science students for the academic year 2016-17, The course of 20 hour duration was conducted during the end of the first term in March 2017  
The course teaches students basics of network administration.