

Lectures for the course: Internet and Web-based Technologies (IT 60102)

Week 1

Lecture 1+2 – 06/01/2014

- Introduction to the course
- Evaluation Guidelines
- DNS

Lecture 3 – 07/01/2014

- Socket programming introduction

Lecture 4 – 08/01/2014

- Socket programming

Week 2

Lecture 5+6 – 13/01/2014

- DNS
- TELNET

Lecture 7 – 15/01/2014

- Socket programming
- Introduction to Service-oriented architecture and web services

Week 3

Lecture 8+9 – 20/01/2014

- Mail transfer protocols
- SMTP
- POP3
- IMAP4
- FTP

Lecture 10 – 22/01/2014 (instead of 21/01/2014)

- Web services

- Web services architecture

Lecture 11 – 23/01/2014 (instead of 22/01/2014)

- Introduction to WSDL, SOAP
- Introduction to UDDI

Week 4

Lecture 12+13 – 27/01/2014

- WWW
- HTTP

Lecture 14 – 29/01/2014 (instead of 28/01/2014)

- XML

Lecture 15 – 30/01/2014 (instead of 29/01/2014)

- XML contd.
- SOAP, WSDL details

Week 5

Lecture 16 – 05/02/2014

- Case study on web services using SOAP, WSDL and UDDI

Week 6

Lecture 17+18 – 10/02/2014

- NAT, PAT & Proxy

Lecture 19 – 11/02/2014

- Overview of network management
- SMI

Lecture 20 – 12/02/2014

- MBI
- SNMP

Week 7

Mid sem exam held

Week 8

Lecture 21 – 26/02/2014

- DHCP

Lecture 22+23 – 28/02/2014

- PERL

Week 9

Lecture 24 – 04/03/2014

- Introduction to cryptography
- Basic substitution ciphers

Lecture 25 – 05/03/2014

- Other substitution ciphers
- Transposition
- Mid-sem scripts shown and feedback given

Week 10

Lecture 26+27 – 10/03/2014

- Quality of service

Lecture 28 – 11/03/2014

- Introduction to DES
- S-DES

Lecture 29 – 12/03/2014

- DES
- Double DES – Meet in the middle attack
- Triple DES
- DES strengths and weakness

Week 11

Lecture 30 - 18/03/2014

- Quality of service

Lecture 31 – 19/03/2014

- Overview of AES
- Public key cryptosystem introduction