

## Introduction to Web Technology

**Course Name:** Introduction to Web Technology

**Course Code:** NWE101

**Credit Hours:** 3

**Knowledge Domain:** Network and Web Engineering.

**Prerequisite(s):** Introduction to IT (ITF101)

### Learning Objectives:

Upon completion of this course, the student will be able to:

1. Present the evolution of the Web and its reliance on the development of the Internet.
2. Understand the basic concepts of the Web and its architecture and components.
3. Distinguish between the different Web applications.

### Learning Outcomes

1. Acquiring the basic concepts of the Web with reference to its architecture and components.
2. Grasping some basic applications of the Web.
3. Some idea about Web security and its social impact.

### Overview and Syllabus

Basic Web aspects. Architecture of the Internet. Basic Web applications. Web security. Societal impact of the Web.

### Course Outline

	<b>Topic</b>
1	<b><u>Module1: Basic Internet and Web Aspects</u></b> <b>Topic 1:</b> Internet Definition and History <b>Topic 2:</b> World Wide Web (www) <b>Topic 3:</b> Internet Vs World Wide Web
2	<b><u>Module 2: Architecture of the Internet</u></b> <b>Topic 1:</b> Internet Infrastructure <b>Topic 2:</b> Fixed Internet Access <b>Topic 3:</b> Portable and Mobile Internet Access

	<p><b>Topic 4:</b> Domain Name System (DNS)</p> <p><b>Topic 5:</b> Network Architectures and Protocols</p>
3	<p><b><u>Module 3: Applications of the Internet</u></b></p> <p><b>Topic 1:</b> Electronic Email</p> <p><b>Topic 2:</b> The World Wide Web</p> <p><b>Topic 3:</b> Search Engines</p> <p><b>Topic 4:</b> Electronic Commerce</p>
4	<p><b><u>Module 4: Internet and Web Security</u></b></p> <p><b>Topic 1:</b> Introduction to Computer and Information Security</p> <p><b>Topic 2:</b> Threat, Vulnerability and Risk</p> <p><b>Topic 3:</b> Viruses, Worms and Spams</p> <p><b>Topic 4:</b> Antivirus and Antispam Software</p> <p><b>Topic 5:</b> Firewall</p> <p><b>Topic 6:</b> Cyber Crimes and Fraud</p>
5	<p><b><u>Module 5: Societal Impact of the Web</u></b></p> <p><b>Topic 1:</b> The Net Generation and The New Web Culture</p> <p><b>Topic 2:</b> The Digital divide</p> <p><b>Topic 3:</b> Blogging</p> <p><b>Topic 4:</b> Personal Websites</p> <p><b>Topic 5:</b> Web media news</p> <p><b>Topic 6:</b> Social Networking</p>
6	<p><b><u>Module 6: Hypertext Markup Languages (HTML) and Cascaded style sheet (CSS)</u></b></p> <p><b>Topic 1:</b> Hypertext Markup Languages (HTML)</p> <p><b>Topic 2:</b> Cascaded Style Sheet (CSS)</p>