



COMSATS University Islamabad

## Applications of Information and Communication Technologies

Lab No. 05

### Introduction to HTML

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# PART 01:

## Introduction to HTML:

### Objective:

- The objective of this lab report is to understand the basics of HTML (Hypertext Markup Language), learn how to create and structure web pages

### Equipment:

The following equipment is used

- VS Code
- MS Word

### Introduction:

HTML is the standard markup language used to create web pages. It provides the basic structure of a webpage, which is then enhanced and modified by other technologies such as CSS and JavaScript. In this lab, we will learn how to create a basic webpage using HTML tags and elements.

### Lab Task 1:

**Objective:** Learn and apply different HTML tags and formatting options on a simple webpage about **Comsats University**.

### Steps:

1. Create a New HTML File  
In any code editor \* VS code, Notepad, Sublime etc.
2. Start Writing that code in that file

```

3. <!DOCTYPE html>
4. <html lang="en">
5. <head>
6.     <meta charset="UTF-8">
7.     <meta name="viewport" content="width=device-width, initial-scale=1.0">
8.     <title>Comsats University</title>
9.     </style>
10.</head>
11.<body>
12.
13.     <header>
14.         <h1>Comsats University Islamabad</h1>
15.         <p>Where Education Leads to Excellence</p>
16.     </header>
17.
18.     <section>
19.         <h2>Introduction</h2>
20.         <p><strong>Comsats University Islamabad (CUI)</strong> is a
leading institution of higher education in Pakistan.</p>
21.         <p>We offer a wide range of <em>bachelor's, master's, and
doctoral</em> programs.</p>
22.
23.         <h3>Popular Programs:</h3>
24.         <ul>
25.             <li>Computer Science</li>
26.             <li>Engineering</li>
27.             <li>Business Administration</li>
28.             <li>Environmental Sciences</li>
29.         </ul>
30.
31.         <h3>Campus Locations:</h3>
32.         <ol>
33.             <li>Islamabad</li>
34.             <li>Lahore</li>
35.             <li>Wah</li>
36.             <li>Attock</li>
37.         </ol>
38.
39.         <h2>Departments</h2>
40.         <table border="1" cellpadding="10">
41.             <tr>
42.                 <th>Department</th>
43.                 <th>Programs</th>
44.             </tr>
45.             <tr>

```

```

46.         <td>Computer Science</td>
47.         <td>BS, MS, PhD</td>
48.     </tr>
49.     <tr>
50.         <td>Engineering</td>
51.         <td>BE, ME, PhD</td>
52.     </tr>
53.     <tr>
54.         <td>Management Sciences</td>
55.         <td>BBA, MBA, MS</td>
56.     </tr>
57. </table>
58.
59.     <blockquote>
60.         "The best way to predict the future is to create it." -
        Abraham Lincoln
61.     </blockquote>
62.
63.     <h2>Contact Information</h2>
64.     <p>If you have any queries, feel free to <a
        href="mailto:info@comsats.edu.pk">email us</a>.</p>
65.
66.     <hr>
67.
68.     <address>
69.         <strong>Comsats University Islamabad</strong><br>
70.         Park Road, Tarlai Kalan<br>
71.         Islamabad, Pakistan
72.     </address>
73.
74.     <footer>
75.         <p>&copy; 2024 Comsats University Islamabad</p>
76.     </footer>
77.
78. </section>
79.
80. </body>
81. </html>
82.

```

End Result :

# Comsats University Islamabad

Where Education Leads to Excellence

## Introduction

**Comsats University Islamabad (CUI)** is a leading institution of higher education in Pakistan.

We offer a wide range of *bachelor's, master's, and doctoral* programs.

### Popular Programs:

- Computer Science
  - Engineering
  - Business
  - Administration
- Environmental  
Sciences

### Campus Locations:

1. Islamabad
2. Lahore
3. Wah
4. Attock

## Departments

Department	Programs
Computer Science	BS, MS, PhD
Engineering	BE, ME, PhD
Management Sciences	BBA, MBA, MS

"The best way to predict the future is to create it." – Abraham Lincoln

## Contact Information

If you have any queries, feel free to [email us](#).

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***Comsats University Islamabad***  
*Park Road, Tarlai Kalan*  
*Islamabad, Pakistan*

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## Lab Task 2 and 3

- Create a webpage for Comsats library. Add lists and apply text formatting to your page. Use videos and images of the library and then add them to your page.

### HTML CODE:

```
<section>
  <h2>About the Library</h2>
  <p>The <strong>Comsats University Library</strong> offers a wide range of resources, including <em>books, research papers, and digital archives</em>, to facilitate learning and research.
  </p>

  <h3>Library Features</h3>
  <ul>
    <li>Thousands of books and research materials.</li>
    <li>Digital access to academic journals and eBooks.</li>
    <li>Quiet study areas and discussion rooms.</li>
    <li>Online catalog for easy book reservation.</li>
  </ul>

  <h3>Library Services</h3>
  <ol>
    <li>Book Lending Service</li>
    <li>Research Assistance</li>
    <li>Digital Archives</li>
    <li>Interlibrary Loan</li>
  </ol>

  <h2>Library Gallery</h2>
  
  <p><em>Photo of Comsats University Library</em></p>

  <h2>Library Video Tour</h2>
  <iframe width="1128" height="634" src="https://www.youtube.com/embed/x28bFlugBSI" title="JUNAID ZAIDI LIBRARY, COMSATS University Islamabad-Islamabad Campus" frameborder="0"
  allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" referrerpolicy="strict-origin-when-cross-origin" allowfullscreen></iframe>
  <p><em>Video tour of the Comsats Library</em></p>

  <h2>Contact Information</h2>
  <p>For more information, feel free to visit the library or <a href="mailto:library@comsats.edu.pk">email us</a>.</p>
</section>

<footer>
  <p>&copy; 2024 Comsats University Library. All rights reserved.</p>
</footer>
```

## CSS Code:

```
<style>
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background-color: #f9f9f9;
}
header {
  background-color: #005cbf;
  color: white;
  text-align: center;
  padding: 20px;
}
section {
  padding: 20px;
}
h1, h2 {
  color: #005cbf;
}
footer {
  background-color: #005cbf;
  color: white;
  text-align: center;
  padding: 10px;
  margin-top: 20px;
}
img {
  width: 100%;
  max-width: 600px;
  height: auto;
  margin: 10px 0;
}
video {
  width: 100%;
  max-width: 600px;
  margin: 10px 0;
}
ul, ol {
  margin: 10px 0;
}
</style>
```

Figure 1 CSS for lab 2

## End Results:

### About the Library

The **Comsats University Library** offers a wide range of resources, including *books, research papers, and digital archives*, to facilitate learning and research.

#### Library Features

- Thousands of books and research materials.
- Digital access to academic journals and eBooks.
- Quiet study areas and discussion rooms.
- Online catalog for easy book reservation.

#### Library Services

1. Book Lending Service
2. Research Assistance
3. Digital Archives
4. Interlibrary Loan

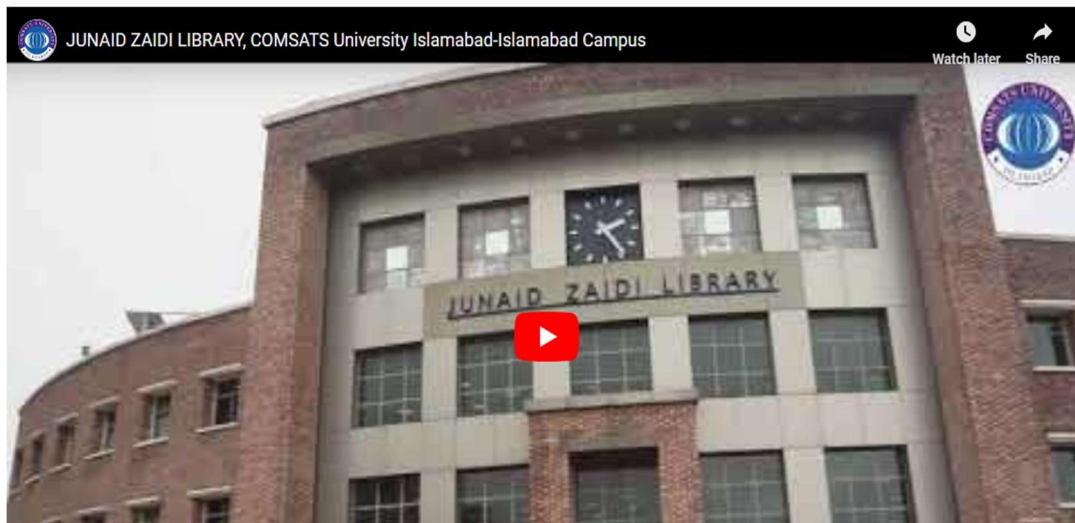
### Library Gallery



*Figure 2 The Results of Lab 2*

*Photo of Comsats University Library*

### Library Video Tour



*Figure 3 The Results of Lab 2*

## Lab Task 4:

**HTML CODE :**



```
<body>

<nav>
  <a href="#departments">Departments</a>
  <a href="#admission">Admission Information</a>
</nav>

<section>
  <h2 id="departments">Departments</h2>
  <p>Below is a table listing various departments at Consats University along with the programs they offer.</p>
  <table>
    <tr>
      <th>Department</th>
      <th>Programs</th>
      <th>Faculty Members</th>
    </tr>
    <tr>
      <td>Computer Science</td>
      <td>BS, MS, PhD</td>
      <td>20 Professors</td>
    </tr>
    <tr>
      <td>Electrical Engineering</td>
      <td>BE, ME, PhD</td>
      <td>18 Professors</td>
    </tr>
    <tr>
      <td>Business Administration</td>
      <td>BBA, MBA, MS</td>
      <td>15 Professors</td>
    </tr>
  </table>

  <h2 id="admission">Admission Information</h2>
  <p>Below is a table providing important admission information for prospective students.</p>
  <table>
    <tr>
      <th>Admission Criteria</th>
      <th>Details</th>
    </tr>
    <tr>
      <td>Undergraduate Programs</td>
      <td>Min 60% in Intermediate, Entry Test Required</td>
    </tr>
    <tr>
      <td>Graduate Programs</td>
      <td>Min 2.5 CGPA, Entry Test Required</td>
    </tr>
    <tr>
      <td>PhD Programs</td>
      <td>Min 3.0 CGPA, Interview and Research Proposal</td>
    </tr>
  </table>
</section>
```

```
<table>
  <tr>
    <th>Department</th>
    <th>Programs</th>
    <th>Faculty Members</th>
  </tr>
  <tr>
    <td>Computer Science</td>
    <td>BS, MS, PhD</td>
    <td>20 Professors</td>
  </tr>
  <tr>
    <td>Electrical Engineering</td>
    <td>BE, ME, PhD</td>
    <td>18 Professors</td>
  </tr>
  <tr>
    <td>Business Administration</td>
    <td>BBA, MBA, MS</td>
    <td>15 Professors</td>
  </tr>
</table>

<h2 id="admission">Admission Information</h2>
<p>Below is a table providing important admission information for prospective students.</p>
<table>
  <tr>
    <th>Admission Criteria</th>
    <th>Details</th>
  </tr>
  <tr>
    <td>Undergraduate Programs</td>
    <td>Min 60% in Intermediate, Entry Test Required</td>
  </tr>
  <tr>
    <td>Graduate Programs</td>
    <td>Min 2.5 CGPA, Entry Test Required</td>
  </tr>
  <tr>
    <td>PhD Programs</td>
    <td>Min 3.0 CGPA, Interview and Research Proposal</td>
  </tr>
</table>
</section>
```

# End Results:

Departments	Admission Information
-------------	-----------------------

## Departments

Below is a table listing various departments at Comsats University along with the programs they offer.

Department	Programs	Faculty Members
Computer Science	BS, MS, PhD	20 Professors
Electrical Engineering	BE, ME, PhD	18 Professors
Business Administration	BBA, MBA, MS	15 Professors

## Admission Information

Below is a table providing important admission information for prospective students.

Admission Criteria	Details
Undergraduate Programs	Min 60% in Intermediate, Entry Test Required
Graduate Programs	Min 2.5 CGPA, Entry Test Required
PhD Programs	Min 3.0 CGPA, Interview and Research Proposal

# Lab Task 5:

index.html

```
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Personal Homepage</title>
7 </head>
8 <body>
9 <table>
10 <tr>
11 <td colspan="3" id="header">
12 <h1>My Personal Homepage</h1>
13 </td>
14 <td colspan="3" id="nav">
15 <b>Navigation Menu</b> | Home | About | Contact
16 </td>
17 <td id="content-left">
18 <h2>My Hobbies</h2>
19 <ul>
20 <li>Reading Books</li>
21 <li>Coding</li>
22 <li>Playing Chess</li>
23 <li>Traveling</li>
24 </ul>
25 </td>
26 <td id="main-content">
27 <h2>My PSC Marksheet</h2>
28 <table border="1" cellpadding="10" cellspacing="0">
29 <thead>
30 <tr>
31 <th>Subject</th>
32 <th>Marks</th>
33 </tr>
34 </thead>
35 <tbody>
36 <tr>
37 <td>Math</td>
38 <td>91</td>
39 </tr>
40 <tr>
41 <td>Physics</td>
42 <td>65</td>
43 </tr>
44 <tr>
45 <td>Urdu</td>
46 <td>77</td>
47 </tr>
48 <tr>
49 <td>English</td>
50 <td>81</td>
51 </tr>
52 </tbody>
53 </table>
54 </td>
55 </tr>
56 </table>
57 </body>
58 </html>
```

index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Personal Homepage</title>
7 </head>
8 <body>
9 {
10 font-family: Arial, sans-serif;
11 }
12 table {
13 width: 100%;
14 height: 100vh;
15 border-collapse: collapse;
16 }
17 td {
18 border: 1px solid black;
19 padding: 20px;
20 text-align: center;
21 }
22 #header {
23 height: 100px;
24 background-color: #005cbf;
25 color: white;
26 }
27 #nav {
28 height: 50px;
29 background-color: #f2f2f2;
30 }
31 #content-left, #content-right {
32 width: 28%;
33 background-color: #f0f0f0;
34 vertical-align: top; /* Align text to the top */
35 }
36 #main-content {
37 width: 68%;
38 background-color: #ffffff;
39 vertical-align: top; /* Align text to the top */
40 }
41 #footer {
42 height: 50px;
43 background-color: #005cbf;
44 color: white;
45 }
46 </style>
47 </head>
48 <body>
49 <table>
```

# End results:

My Personal Homepage

Navigation Menu | Home | About | Contact

My Hobbies

- Reading Books
- Coding
- Playing Chess
- Traveling

My FSC Marksheet

Subject	Marks
Math	91
Physics	65
Urdu	77
English	81
Computer	75

Extra-Curricular Activities

- Debate Competition
- Sports (Football)
- Community Service
- Art and Painting

Math	91
Physics	65
Urdu	77
English	81
Computer	75

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