FACULTY OF COMPUTER SCIENCE AND MATHEMATICS

WEB-BASED INTERFACE DESIGN

CSF3133

SEMESTER 1 SESSION 2025/2026
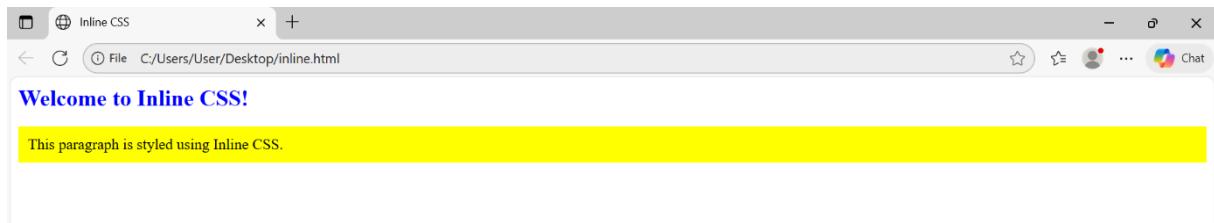
BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING) WITH
HONOURS

LAB MODULE 5

| NAME	NO. MATRIC
NUR ALIYA FARHANI BINTI MOHD NASRI	S75663

## 5.3 Inline CSS

Output:
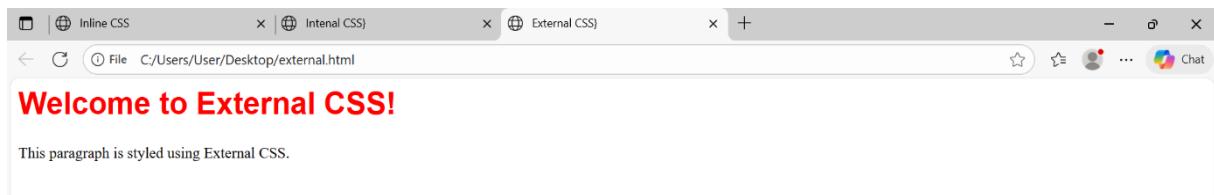
5.4 Internal CSS

Output:
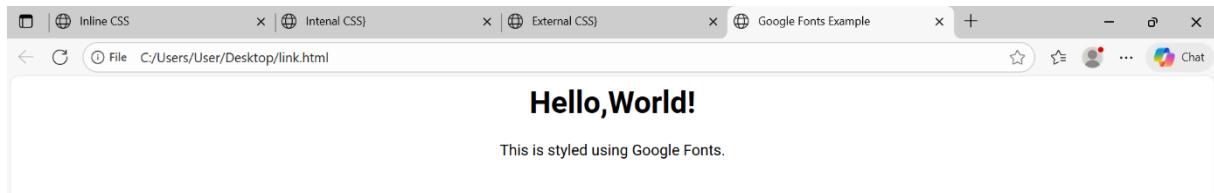
5.5 External CSS

Output:
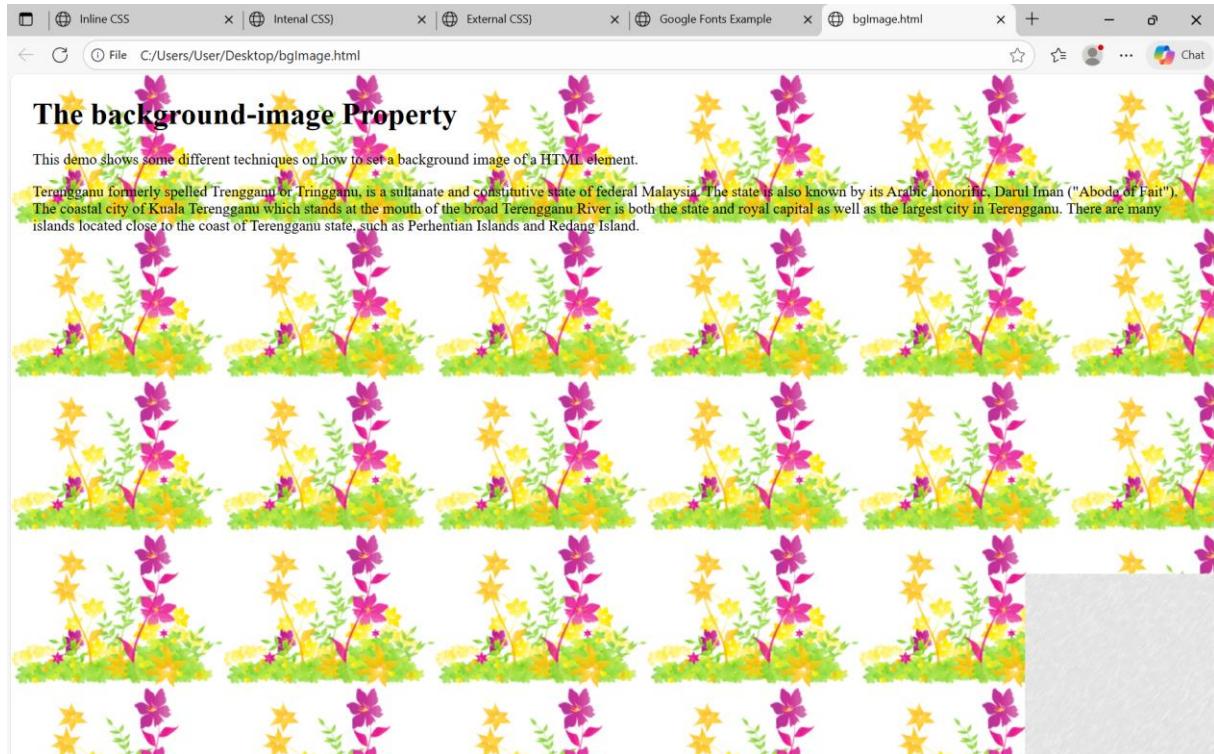
5.6 Link to file CSS

Output:

5.7 CSS Backgrounds

Output:
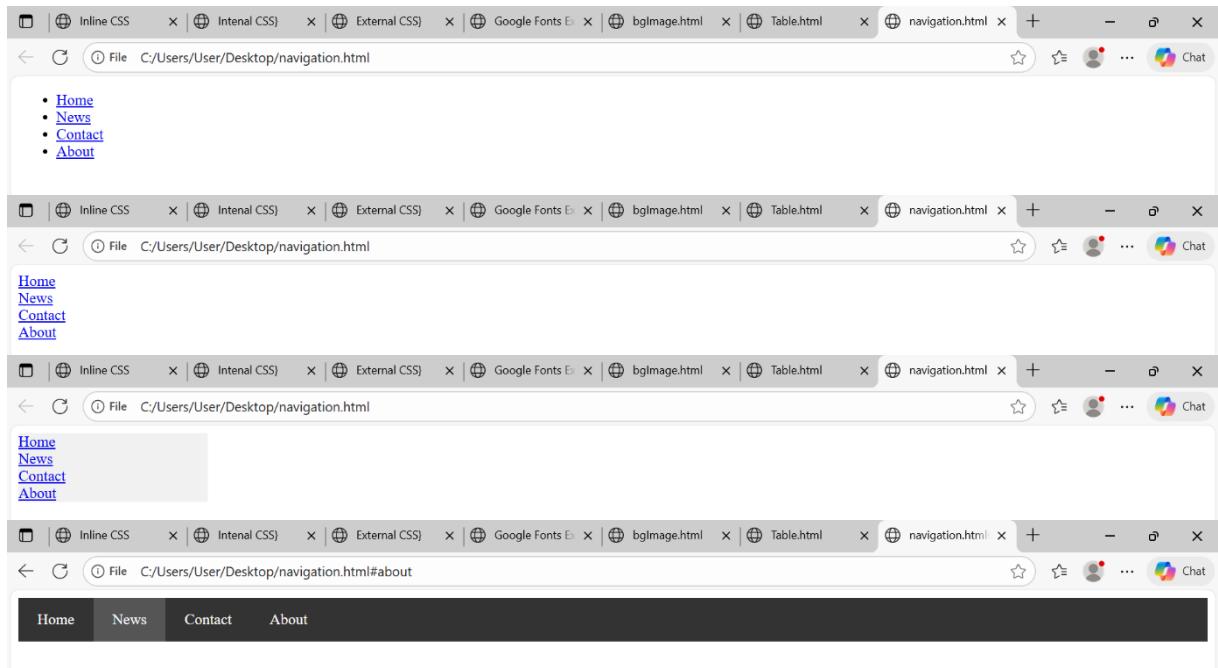
5.8 CSS Table
Output:

5.9 CSS Navigation Bar

Output:

5.10 Lab Exercise 5
Source Code:

umt.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width,initial-scale=1" />
  <title>Universiti Malaysia Terengganu</title>

  <!-- Google Font -->
  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600;700&display=swap" rel="stylesheet">

  <!-- External CSS -->
  <link rel="stylesheet" href="umt.css">
</head>
<body>
  <!-- HEADER -->
  <header class="site-header">
    <div class="container header-inner">
      <div class="brand">
        <img src="Logo_Rasmi_UMT.png" alt="UMT logo" class="logo">
        <div>
          <h1>Universiti Malaysia Terengganu</h1>
          <p class="subtitle">Centre of Excellence in Marine & Environmental Studies</p>
        </div>
      </div>

      <button id="mobileMenuBtn" class="mobile-menu-btn" aria-label="Open menu">≡</button>
    </div>
  </header>

  <!-- NAVIGATION -->
  <nav class="main-nav" aria-label="Main navigation">
    <div class="container">
      <ul class="nav-list" id="navList">
        <li class="nav-item has-sub">
          <a href="#" class="nav-link">ABOUT UMT ▾</a>
          <ul class="sub-menu">
            <li><a href="#history">History</a></li>
            <li><a href="#vision">Vision &amp; Mission</a></li>
            <li><a href="#leadership">Leadership</a></li>
          </ul>
        </li>
```

```html
          </ul>
        </li>

        <li class="nav-item has-sub">
          <a href="#" class="nav-link">STUDY ▾</a>
          <ul class="sub-menu">
            <li><a href="#undergrad">Undergraduate</a></li>
            <li><a href="#postgrad">Postgraduate</a></li>
            <li><a href="#intl">International Students</a></li>
          </ul>
        </li>

        <li class="nav-item has-sub">
          <a href="#" class="nav-link">RESEARCH ▾</a>
          <ul class="sub-menu">
            <li><a href="#institutes">Institutes</a></li>
            <li><a href="#pubs">Publications</a></li>
            <li><a href="#innovation">Innovation</a></li>
          </ul>
        </li>

        <li class="nav-item has-sub">
          <a href="#" class="nav-link">CAMPUS LIFE ▾</a>
          <ul class="sub-menu">
            <li><a href="#hostel">Hostel</a></li>
            <li><a href="#clubs">Clubs</a></li>
            <li><a href="#events">Events</a></li>
          </ul>
        </li>

        <li class="nav-item"><a href="#contact" class="nav-link">CONTACT</a></li>
      </ul>
    </div>
  </nav>

  <!-- SLIDER -->
  <section class="slider-section" aria-label="Image slider">
    <div class="slider container" id="slider">
      <div class="slides">
        <div class="slide"><img src="umt1.webp" alt="UMT campus 1"></div>
        <div class="slide"><img src="umt2.jpg" alt="UMT campus 2"></div>
        <div class="slide"><img src="umt3.jpg" alt="UMT campus 3"></div>
```

```html
      </nav>

      <!-- SLIDER -->
      <section class="slider-section" aria-label="Image slider">
        <div class="slider container" id="slider">
          <div class="slides">
            <div class="slide"><img src="umt1.webp" alt="UMT campus 1"></div>
            <div class="slide"><img src="umt2.jpg" alt="UMT campus 2"></div>
            <div class="slide"><img src="umt3.jpg" alt="UMT campus 3"></div>
          </div>

          <button class="slider-btn prev" aria-label="Previous slide">&#10094;</button>
          <button class="slider-btn next" aria-label="Next slide">&#10095;</button>

          <div class="dots" id="dots"></div>
        </div>
      </section>

      <!-- MAIN CONTENT -->
      <main class="container content">
        <section id="about">
          <article>
            <h2>About Universiti Malaysia Terengganu (UMT)</h2>
            <p>
              Universiti Malaysia Terengganu (UMT) is a public university located in Kuala Nerus, Terengganu, Malaysia.
              It was initially established as the Centre for Fisheries and Marine Science of Universiti Putra Malaysia and later evolved
              into an independent university with strong emphasis on marine science and environmental studies.
            </p>

            <p>
              UMT offers a wide range of undergraduate and postgraduate programs in marine-related fields, environmental science,
              food technology, engineering and social sciences. The university is actively involved in research, community engagement,
              and international collaborations.
            </p>
          </article>
        </section>

        <section id="faculties" class="table-wrap">
          <h3>UMT Main Faculties</h3>
          <table class="styled-table" aria-describedby="faculty-list">
            <thead>
              <tr>
                <th>Faculty</th>
                <th>Programs</th>
                <th>Focus Area</th>
              </tr>
            </thead>
            <tbody>
              <tr><td>Faculty of Science and Marine Environment</td><td>BSc / MSc / PhD</td><td>Marine Biology, Oceanography</td></tr>
              <tr><td>Faculty of Fisheries and Food Science</td><td>BSc / MSc</td><td>Aquaculture, Fishery Management</td></tr>
              <tr><td>Faculty of Ocean Engineering Technology</td><td>BEng</td><td>Naval Architecture, Marine Engineering</td></tr>
              <tr><td>Faculty of Computer Science and Mathematics</td><td>BSc</td><td>Software Engineering, Mobile Computing, Data Analytics, Mathematica
              <tr><td>Faculty of Maritime Studies</td><td>BSc</td><td>Marine and Maritime Industry</td></tr>
              <tr><td>Faculty of Business, Economics and Social Development</td><td>BSc</td><td>Business Studies, Economics, Management, Finance, Account
            </tbody>
          </table>
        </section>
      </main>

      <!-- FOOTER -->
```

```html
      </main>

      <!-- FOOTER -->
      <footer class="site-footer">
        <div class="container">
          <p>© 2025 Universiti Malaysia Terengganu. All rights reserved.</p>
        </div>
      </footer>

      <!-- SCRIPTS: slider + mobile menu + dropdown mobile toggle + swipe -->
      <script>
        /* ====== Mobile menu toggle ====== */
        const mobileBtn = document.getElementById('mobileMenuBtn');
        const navList = document.getElementById('navList');
        mobileBtn.addEventListener('click', () => {
          navList.classList.toggle('open');
        });

        /* ====== Dropdown: enable click-to-toggle on small screens ====== */
        document.querySelectorAll('.nav-item.has-sub > .nav-link').forEach(link => {
          link.addEventListener('click', (e) => {
            // On small screens, clicking top-level should toggle submenu instead of navigating
            if (window.innerWidth <= 900) {
              e.preventDefault();
              const parent = link.parentElement;
              parent.classList.toggle('open-sub');
            }
          });
        });

        /* ====== Slider logic (arrows, dots, autoplay, swipe) ====== */
        (function() {
          const slider = document.getElementById('slider');
          const slidesWrap = slider.querySelector('.slides');
          const slides = slider.querySelectorAll('.slide');
          const prevBtn = slider.querySelector('.prev');
          const nextBtn = slider.querySelector('.next');
          const dotsContainer = document.getElementById('dots');

          let idx = 0;
          const total = slides.length;
          let autoplay = null;
```

```html
          const interval = 4000;

          // create dots
          for (let i=0;i<total;i++){
            const d = document.createElement('button');
            d.className = 'dot';
            d.setAttribute('aria-label','Go to slide ' + (i+1));
            d.dataset.index = i;
            dotsContainer.appendChild(d);
          }
          const dots = dotsContainer.querySelectorAll('.dot');

          function goTo(n){
            idx = (n + total) % total;
            slidesWrap.style.transform = 'translateX(' + (-idx * 100) + '%)';
            dots.forEach((dot,i)=> dot.classList.toggle('active', i===idx));
          }

          function next(){ goTo(idx+1); }
          function prev(){ goTo(idx-1); }

          nextBtn.addEventListener('click', next);
          prevBtn.addEventListener('click', prev);
          dots.forEach(d => d.addEventListener('click', ()=> goTo(Number(d.dataset.index)) ));

          // autoplay
          function startAuto(){ autoplay = setInterval(next, interval); }
          function stopAuto(){ clearInterval(autoplay); autoplay = null; }
          slider.addEventListener('mouseenter', stopAuto);
          slider.addEventListener('mouseleave', startAuto);

          // touch / swipe
          let startX = 0;
          slidesWrap.addEventListener('touchstart', e => startX = e.changedTouches[0].clientX);
          slidesWrap.addEventListener('touchend', e => {
            const diff = e.changedTouches[0].clientX - startX;
            if (Math.abs(diff) > 40) diff > 0 ? prev() : next();
          });

          // init
          goTo(0);
          startAuto();
```

```
function goTo(n){
  idx = (n + total) % total;
  slidesWrap.style.transform = 'translateX(' + (-idx * 100) + '%)';
  dots.forEach((dot,i)=> dot.classList.toggle('active', i===idx));
}

function next(){ goTo(idx+1); }
function prev(){ goTo(idx-1); }

nextBtn.addEventListener('click', next);
prevBtn.addEventListener('click', prev);
dots.forEach(d => d.addEventListener('click', ()=> goTo(Number(d.dataset.index)) ));

// autoplay
function startAuto(){ autoplay = setInterval(next, interval); }
function stopAuto(){ clearInterval(autoplay); autoplay = null; }
slider.addEventListener('mouseenter', stopAuto);
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// touch / swipe
let startX = 0;
slidesWrap.addEventListener('touchstart', e => startX = e.changedTouches[0].clientX);
slidesWrap.addEventListener('touchend', e => {
  const diff = e.changedTouches[0].clientX - startX;
  if (Math.abs(diff) > 40) diff > 0 ? prev() : next();
});

// init
goTo(0);
startAuto();
})();
</script>
</body>
</html>
```

umt.css


```css
/* ===== UMT ===== */
:root{
    --umt-purple: #4a0072;
    --umt-dark:  #3c0066;
    --muted: #6b6b6b;
    --container: 1100px;
}
*{box-sizing:border-box}
html,body{height:100%}
body{
    margin:0;
    font-family:"Poppins",system-ui,Arial;
    color:#222;
    background: linear-gradient(180deg,#f8f8ff 0%, #efe6ff 100%);
    -webkit-font-smoothing:antialiased;
}

/* ===== CONTAINER ===== */
.container{
    width:90%;
    max-width:var(--container);
    margin:0 auto;
}

/* ===== HEADER ===== */
.site-header{background:white; box-shadow:0 2px 10px rgba(0,0,0,0.06)}
.header-inner{display:flex;align-items:center;justify-content:space-between;padding:18px 0}
.brand{display:flex;gap:14px;align-items:center}
.logo{width:70px;height:auto}
.brand h1{font-size:20px;color:var(--umt-dark);margin:0}
.subtitle{margin:3px 0 0;color:var(--muted);font-size:13px}

/* mobile menu button */
.mobile-menu-btn{
    display:none;
    background:transparent;border:0;font-size:22px;padding:6px 10px;cursor:pointer;color:var(--umt-dark)
}

/* ===== NAVIGATION ===== */
.main-nav{background:var(--umt-purple)}
.main-nav .container{padding:0}
.nav-list{
```
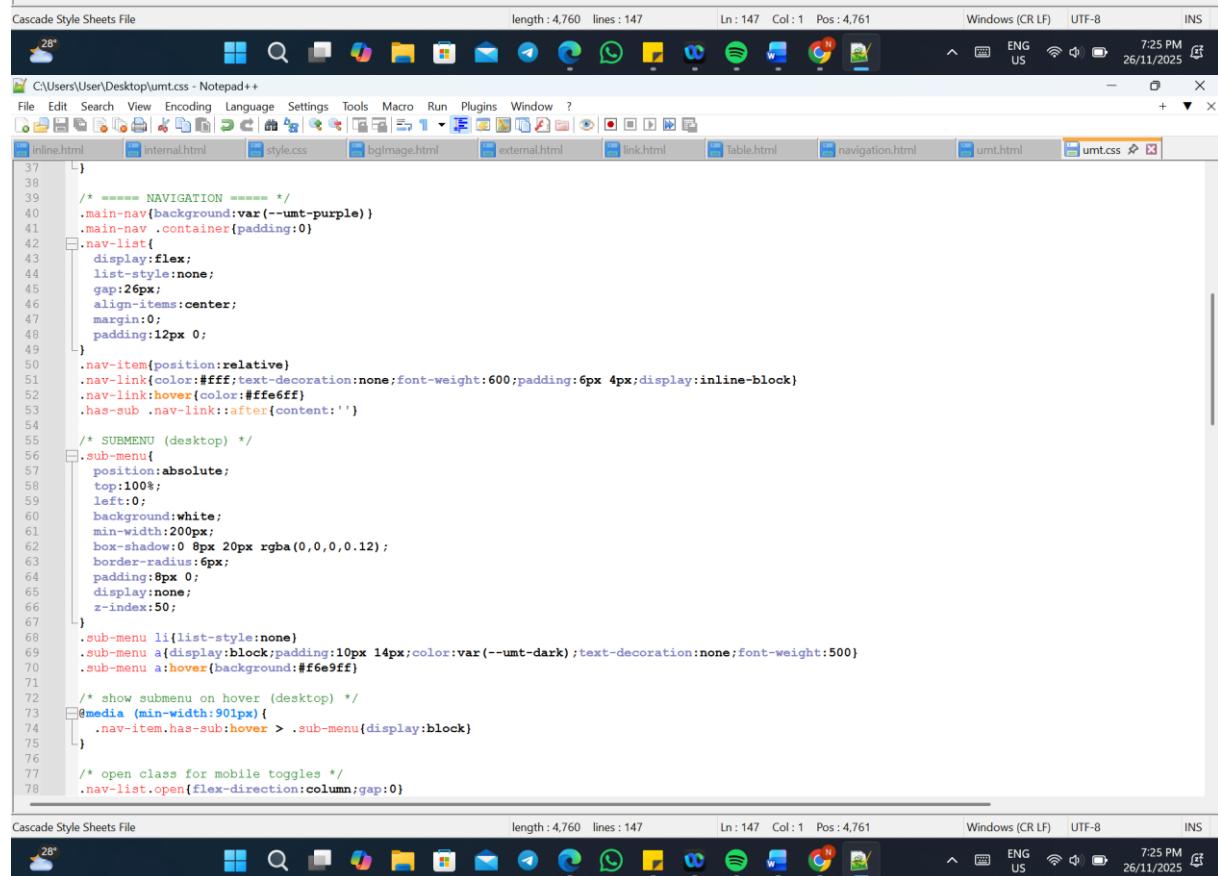


```css
}

/* ===== NAVIGATION ===== */
.main-nav{background:var(--umt-purple)}
.main-nav .container{padding:0}
.nav-list{
    display:flex;
    list-style:none;
    gap:26px;
    align-items:center;
    margin:0;
    padding:12px 0;
}
.nav-item{position:relative}
.nav-link{color:#fff;text-decoration:none;font-weight:600;padding:6px 4px;display:inline-block}
.nav-link:hover{color:#ffe6ff}
.has-sub .nav-link::after{content:''}

/* SUBMENU (desktop) */
.sub-menu{
    position:absolute;
    top:100%;
    left:0;
    background:white;
    min-width:200px;
    box-shadow:0 8px 20px rgba(0,0,0,0.12);
    border-radius:6px;
    padding:8px 0;
    display:none;
    z-index:50;
}
.sub-menu li{list-style:none}
.sub-menu a{display:block;padding:10px 14px;color:var(--umt-dark);text-decoration:none;font-weight:500}
.sub-menu a:hover{background:#f6e9ff}

/* show submenu on hover (desktop) */
@media (min-width:901px){
    .nav-item.has-sub:hover > .sub-menu{display:block}
}

/* open class for mobile toggles */
.nav-list.open{flex-direction:column;gap:0}
```
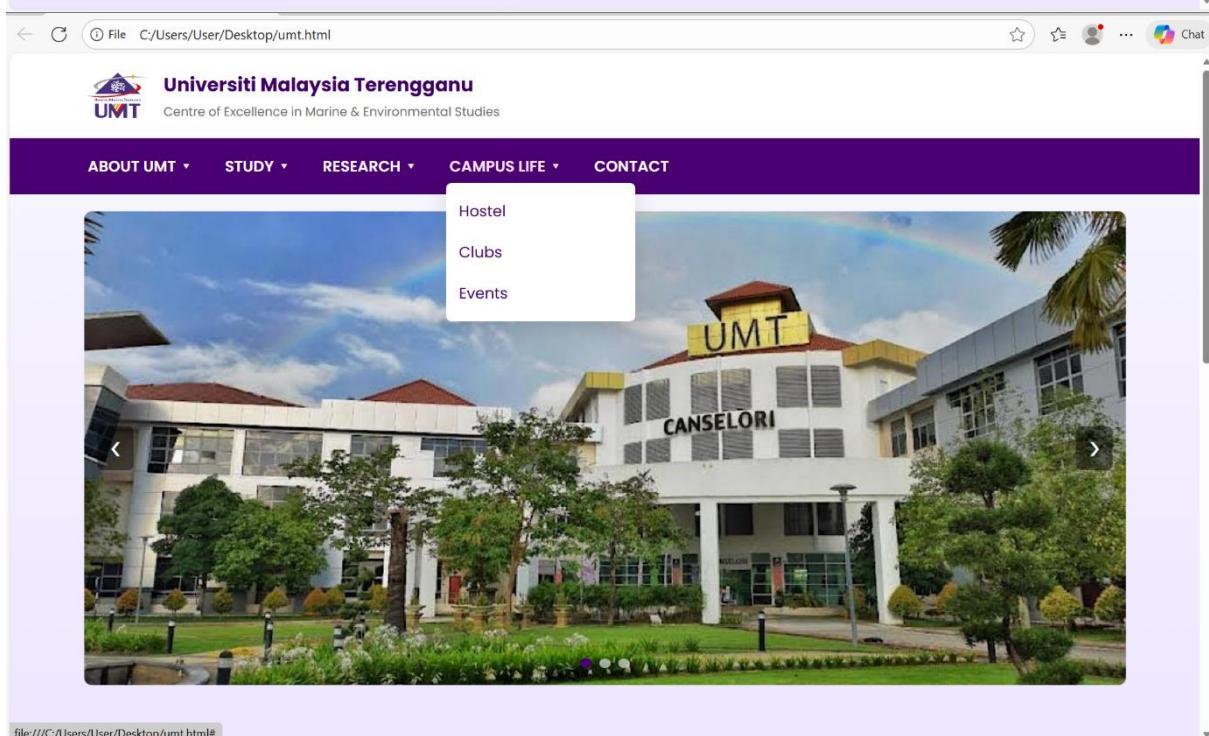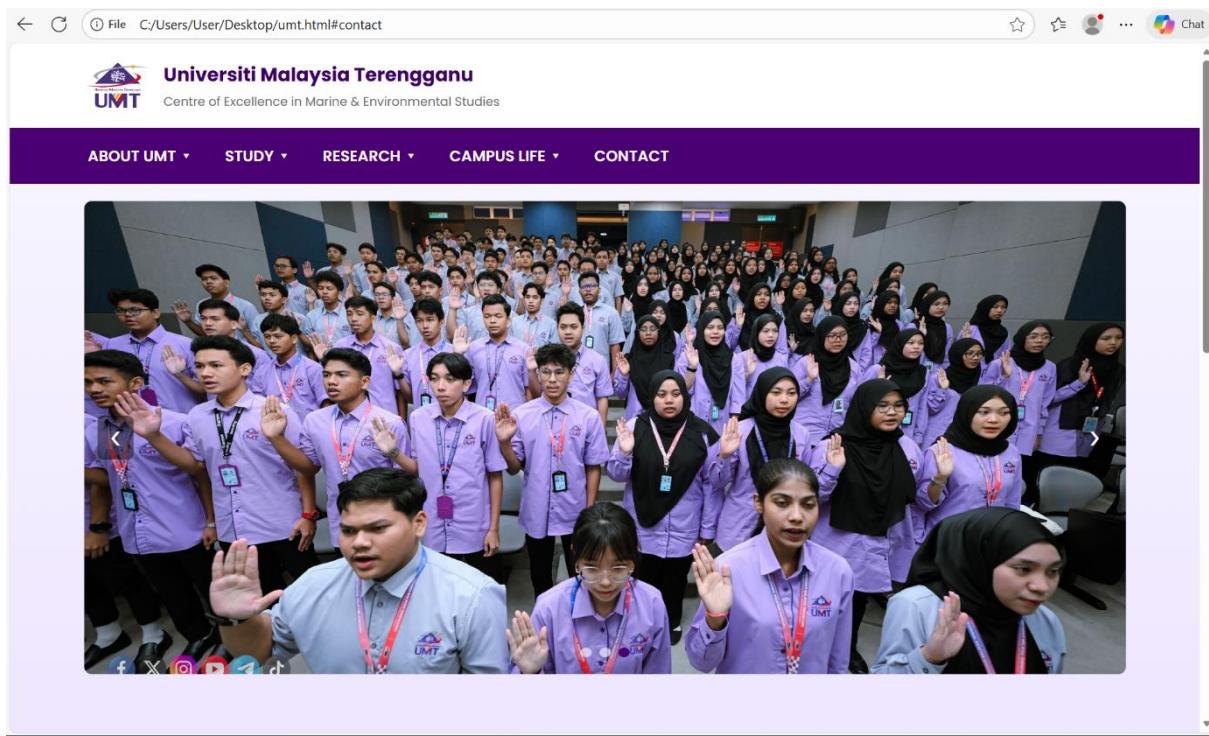
```css
76
77      /* open class for mobile toggles */
78      .nav-list.open{flex-direction:column;gap:0}
79      .nav-list.open .nav-item{width:100%}
80      .nav-list.open .nav-link{padding:14px 12px;border-top:1px solid rgba(255,255,255,0.06);display:flex;justify-content:space-between;align-items:center}
81      .nav-item.open-sub > .sub-menu{display:block;position:relative;box-shadow:none;background:#fff;border-left:4px solid var(--umt-purple)}
82
83      /* ===== SLIDER ===== */
84      .slider-section{padding:18px 0}
85      .slider{position:relative;overflow:hidden}
86      .slides{display:flex;transition:0.5s ease}
87      .slide{min-width:100%;flex-shrink:0}
88
89      /* ===== FIXED SLIDE IMAGE ===== */
90      .slide img {
91          width: 100%;
92          height: 500px;          /* global height desktop */
93          object-fit: cover;
94          display: block;
95          border-radius: 8px;
96      }
97
98      /* arrows */
99      .slider-btn{position:absolute;top:50%;transform:translateY(-50%);background:rgba(0,0,0,0.45);color:#fff;border:0;padding:10px 14px;border-radius:6px;
100     .prev{left:14px}
101     .next{right:14px}
102
103     /* dots */
104     .dots{position:absolute;left:50%;transform:translateX(-50%);bottom:18px;display:flex;gap:8px}
105     .dot{width:10px;height:10px;border-radius:50%;background:rgba(255,255,255,0.6);border:0;cursor:pointer}
106     .dot.active{background:var(--umt-purple)}
107
108     /* ===== CONTENT ===== */
109     .content{padding:28px 0 60px}
110     .content h2{color:var(--umt-dark);margin-bottom:12px}
111     .content p{color:#333;line-height:1.75;margin-bottom:12px}
112
113     /* TABLE */
114     .table-wrap{margin-top:18px}
115     .table-wrap h3{color:var(--umt-dark);margin-bottom:10px}
116     .styled-table{width:100%;border-collapse:collapse;background:white;border-radius:8px;overflow:hidden;box-shadow:0 6px 18px rgba(0,0,0,0.06)}
117     .styled-table th, .styled-table td{padding:14px 16px;text-align:left;border-bottom:1px solid #f0e7ff}
```

```css
112
113     /* TABLE */
114     .table-wrap{margin-top:18px}
115     .table-wrap h3{color:var(--umt-dark);margin-bottom:10px}
116     .styled-table{width:100%;border-collapse:collapse;background:white;border-radius:8px;overflow:hidden;box-shadow:0 6px 18px rgba(0,0,0,0.06)}
117     .styled-table th, .styled-table td{padding:14px 16px;text-align:left;border-bottom:1px solid #f0e7ff}
118     .styled-table th{background:var(--umt-dark);color:#fff;font-weight:600}
119     .styled-table tbody tr:nth-child(even){background:#fbf6ff}
120     .styled-table tbody tr:hover{background:#efe0ff}
121
122     /* FOOTER */
123     .site-footer{background:var(--umt-purple);color:#fff;padding:18px 0;text-align:center}
124
125     /* ===== RESPONSIVE ===== */
126     @media (max-width:900px){
127       .mobile-menu-btn{display:block}
128       .nav-list{display:none;flex-direction:column;gap:0}
129       .nav-list.open{display:flex;background:var(--umt-purple);padding:10px 0}
130       .sub-menu{display:none;position:relative;box-shadow:none;background:#fff;border-left:4px solid var(--umt-purple)}
131
132       /* responsive slider height */
133       .slide img{height:260px}
134
135       .brand h1{font-size:18px}
136       .logo{width:56px}
137       .dots{bottom:10px}
138       .slider-btn{padding:8px 10px;font-size:18px}
139     }
140
141     /* smaller phones */
142     @media (max-width:420px){
143       .container{width:94%}
144       .content{padding:18px 0}
145       .subtitle{display:none}
146     }
147
```

About Universiti Malaysia Terengganu (UMT)

Universiti Malaysia Terengganu (UMT) is a public university located in Kuala Nerus, Terengganu, Malaysia. It was initially established as the Centre for Fisheries and Marine Science of Universiti Putra Malaysia and later evolved into an independent university with strong emphasis on marine science and environmental studies.

UMT offers a wide range of undergraduate and postgraduate programs in marine-related fields, environmental science, food technology, engineering and social sciences. The university is actively involved in research, community engagement, and international collaborations.

UMT Main Faculties

Faculty	Programs	Focus Area
Faculty of Science and Marine Environment	BSc / MSc / PhD	Marine Biology, Oceanography
Faculty of Fisheries and Food Science	BSc / MSc	Aquaculture, Fishery Management
Faculty of Ocean Engineering Technology	BEng	Naval Architecture, Marine Engineering
Faculty of Computer Science and Mathematics	BSc	Software Engineering, Mobile Computing, Data Analytics, Mathematical Sciences (Applied & Financial Math), Maritime Informatics