



ST. BEDE'S COLLEGE, SHIMLA

Web Designing

A comprehensive 45-hour course for second-year students — from complete beginner to building real, responsive websites.

BEGINNER TO INTERMEDIATE

45 HOURS

HTML5 · CSS3 · BOOTSTRAP · UI/UX



Course Objectives

By the end of this course, students will be equipped with the skills and confidence to design, style, and publish professional websites.



HTML5 & CSS3

Build and style web pages from scratch



Responsive Design

Create mobile-friendly websites



Bootstrap Framework

Speed up development with professional components



UI/UX Basics

Design intuitive, user-centred interfaces



Capstone Project

Develop a complete, deployable website

Web Design Fundamentals

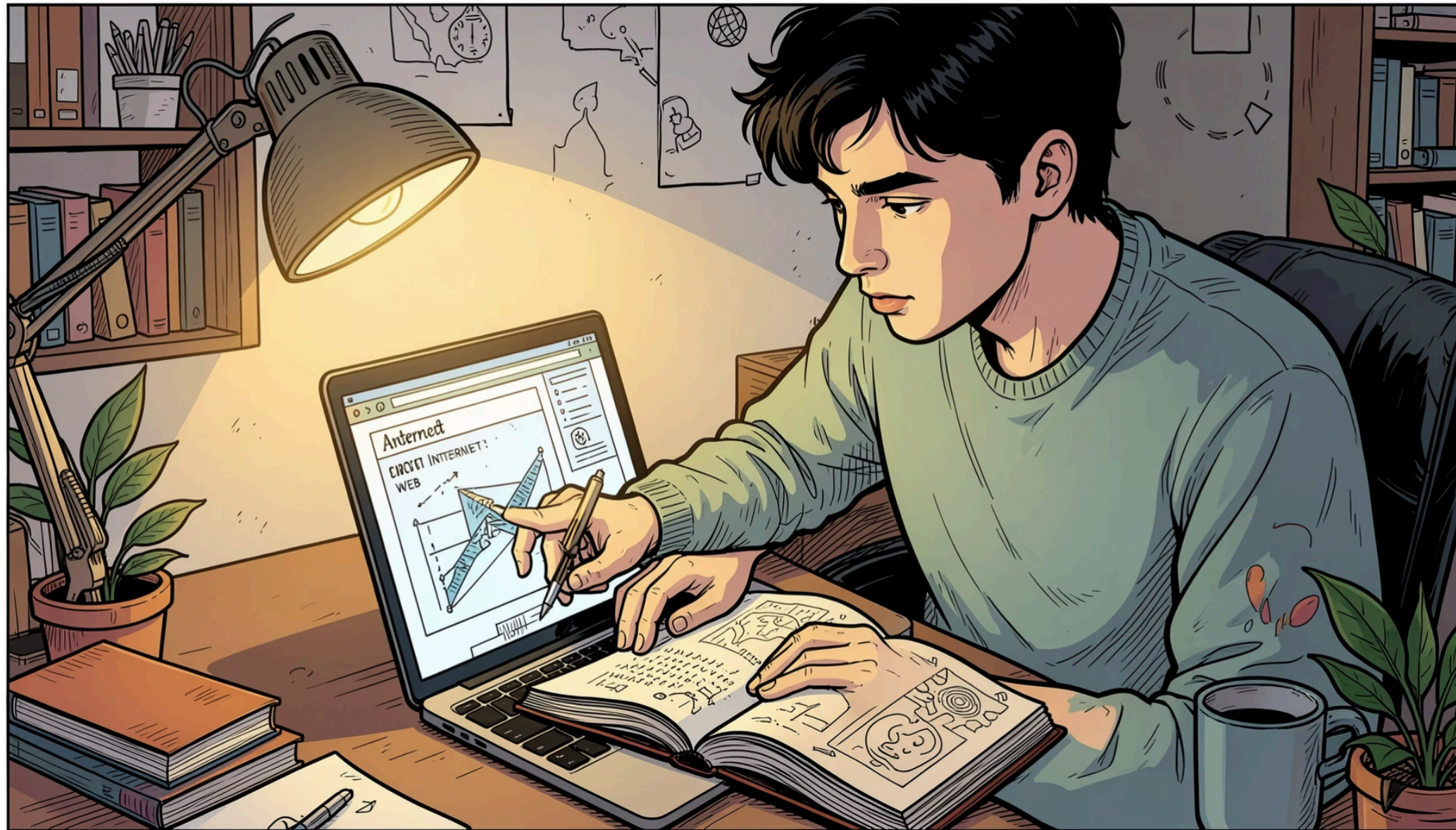
Topics Covered

- How the Internet & Websites Work
- Types of Websites & Their Structure
- Front-End vs Back-End Development
- Core Web Design Principles
- Domain Names & Hosting Basics

Practical Activities

- Analysing real-world website layouts
- Creating your first web page

 This module builds the conceptual foundation every web designer needs before writing a single line of code.



HTML5 Fundamentals

HTML is the skeleton of every website. In these modules, students learn to structure content semantically and professionally.

1

Document Structure

Headings, paragraphs, lists, links, and images

2

Tables & Forms

Organising data and collecting user input

3

Personal Profile Page

First hands-on project — build your own page

4

College Info Page

Practice with real content and structure

5

Registration Form

Design a functional, well-structured form



Mini Project: Build a multi-page static website using only HTML5.

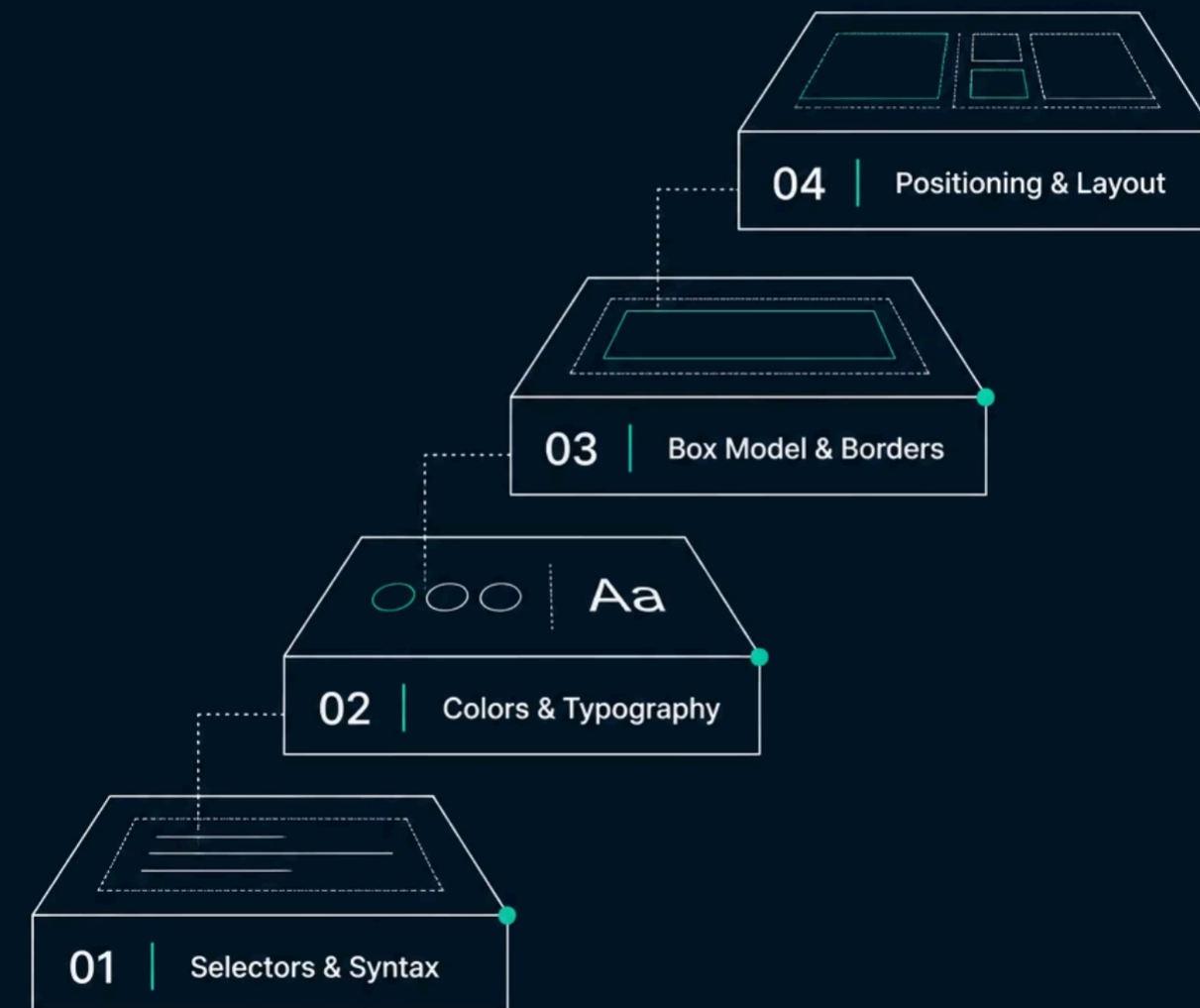
CSS3 Fundamentals

What You'll Learn

- Inline, Internal & External CSS
- Colours, Backgrounds & Typography
- Borders, Shadows & the Box Model
- Positioning & Layout Techniques

Practical Activities

- Styling a complete website
- Designing a navigation menu
- Creating a card-based layout



Responsive Web Design

A website must work beautifully on every screen. These modules teach students to design fluidly across devices.

Media Queries

Apply styles based on screen size

Flexbox

Flexible one-dimensional layouts

CSS Grid

Powerful two-dimensional layout system

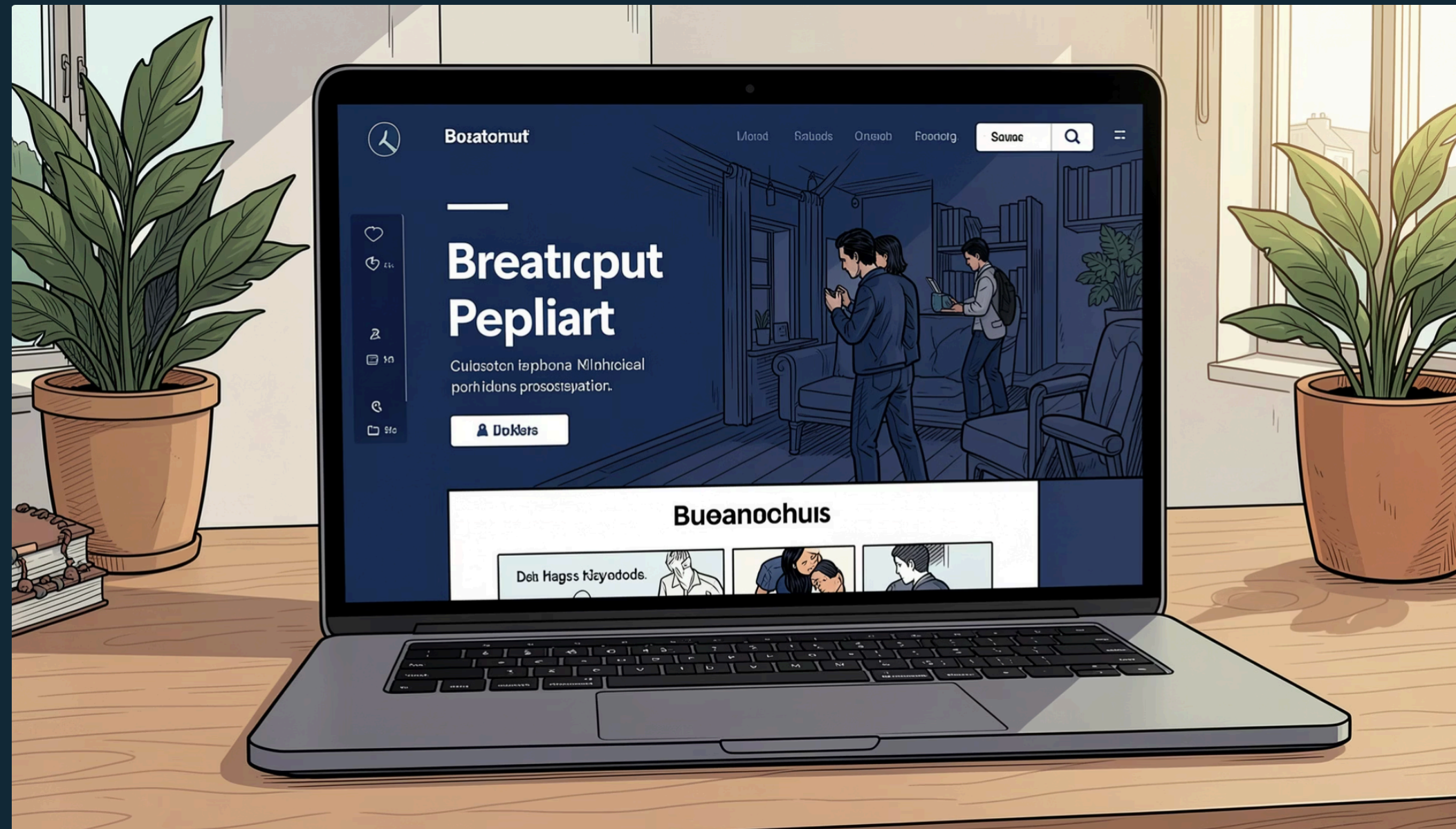
Mobile-First

Design for small screens first, scale up

i Outcome: Students will design responsive landing pages and portfolio websites that adapt to mobile, tablet, and desktop.



Bootstrap Framework



Bootstrap Topics

- Grid System & Container Layouts
- Navigation Bars & Buttons
- Cards, Forms & Components
- Responsive Utilities

Practical Projects

- Bootstrap Portfolio Website
- Bootstrap Business Website

Why Bootstrap?

→ Faster Development

→ Professional Layouts

→ Built-in Responsiveness

UI/UX & Website Optimisation

Great websites are not just functional — they are beautiful, fast, and accessible to everyone.



UI/UX Basics

Design principles, colour theory, typography, and user-centred design thinking



Website Performance

Optimising load times, image compression, and clean code practices



SEO Basics

Meta tags, semantic HTML, and on-page optimisation fundamentals



Accessibility

WCAG guidelines, alt text, contrast ratios, and keyboard navigation



Practical Activity: Evaluate an existing website and propose UI improvements using learned principles.

Final Website Project

Students bring everything together by designing and developing a complete, responsive website from scratch.

Personal Portfolio

Showcase your skills and projects

College Department

Information hub for a department

Business Website

Professional site for a local business

NGO Website

Impactful design for a cause

Event Management

Promote and manage an event

Restaurant Website

Menu, booking, and location pages

✔ **Deliverables:** Homepage · About Page · Contact Form · Responsive Design · Bootstrap Integration

Course Outcomes & Assessment



Tools & Technologies

- Visual Studio Code
- Google Chrome DevTools
- HTML5 · CSS3 · Bootstrap

By the End of the Course

- Create professional, responsive websites
- Design mobile-friendly interfaces
- Use Bootstrap for rapid development
- Apply UI/UX and accessibility principles