



MASINDE MULIRO UNIVERSITY OF SCIENCE & TECHNOLOGY

LAB-WEB DESIGN

1. OBJECTIVES

The objective of this lab is to develop an ability to design and implement static and dynamic websites.

LEARNING OUTCOMES

At the end of this, students should be able to:

1. Design and implement dynamic websites with good aesthetics and latest technical know-how's.
2. Have a Good grounding of Web Application Terminologies, Internet Tools, E – Commerce and other web services.

2. BACKGROUND

Your group has been invited to create a website for the faculty of engineering at Softcore University whose particulars are as shown below.

INSTITUTION

Name: Softcore University

Address: P.O BOX 54998-00200, Nairobi

Physical location: Mukoma Road, Nairobi

KEY STRUCTURE

1. Administration:

- a) Office of the Vice Chancellor
- b) Finance Department
- c) Human Resource Department
- d) Research and Extension

2. Faculties:

- (a) Medicine
- (b) Social Sciences
- (c) Engineering
 - (I) Mechanical Engineering
 - (II) Civil Engineering
 - (III) Electrical Engineering

- (i) [Bachelor of Technology in Electrical and Electronic Engineering](#)

- (ii) [Bachelor of Engineering in Electrical and Electronic Engineering](#)
- (iii) [Bachelor of Engineering in Electrical and Communication Engineering](#)

The purpose of the website is to allow students, staff and other stakeholders easy access to information including approved programme curriculum with minimum clicks or searching using key words.

3. PROCEDURE

1. **Goal identification:** Set the goals the new website needs to fulfill.

2. **Scope definition:** Define the scope of the project. i.e., what web pages and features the site requires to fulfill the goals, and the timeline for design and implementation.

3. **Sitemap and wireframe creation:** Dig into the sitemap, defining how the content and features you defined in scope definition will interrelate.

4. **Content creation:** Create content for the individual pages in Microsoft Expression based on the three degree programmes, i.e B.Tech(EE) and B.Eng(EE) and B.Sc(ECE), always keeping search engine optimization (SEO) in mind to help keep pages focused on a single topic.

5. **Visual elements:** With the site architecture and some content in place, start working on the visual brand using tools like style tiles.

6. **Testing:** Combine manual browsing of the site on a variety of devices to identify everything from user experience issues to simple broken links.
7. **Launch:** Publish the website to the server at the following locations.
 - a) <http://www.group1.softcore.co.ke>
 - b) <http://www.group2.softcore.co.ke>
 - c) <http://www.group3.softcore.co.ke>
 - d) <http://www.group4.softcore.co.ke>
 - e) <http://www.group5.softcore.co.ke>
 - f) <http://www.group6.softcore.co.ke>