

DIGITAL CITIZENSHIP HUB

Objective

Design a Digital Citizenship Hub application to reduce paper waste, stay digitally connected and promote responsible digital citizenship. The application will include eco-friendly tips and digital safety lessons.

Session 1: Presentation & Data Collection

Activities

1. Digital Citizenship Hub Overview

✦ Task

Design a PowerPoint presentation that highlights the features and objectives of the Digital Citizenship Hub.

✦ Skills Practiced

Applying various animations and transitions to text, images and slides.

2. Data Tracking

✦ Task

Use Excel to record eco-friendly tips shared by students and track their contributions.

✦ Skills Practiced

Utilise AutoFill, Flash Fill and Custom Lists for efficient data entry and formatting.

3. Design an App Prototype

✦ Task

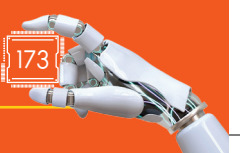
Create a prototype layout of the Digital Citizenship Hub.

✦ Skills Practiced

Design user interface layouts, customising text and images for application design.

Outcome for Session 1

A presentation, an eco-friendly tips tracker and a Canva app prototype.



Session 2: App Development

Activities

1. Design and Develop an App

✦ Task

Develop a two-screen app in MIT App Inventor, with a Home Screen showing the Eco-friendly tip of the Day and app title and a Tips Screen featuring a button to display student-submitted eco-friendly tips.

✦ Skills Practiced

Designing simple app functionalities using MIT App Inventor's drag-and-drop interface.

2. Design a 3D Badge or Logo

✦ Task

Create a 3D badge or logo to represent the app's icon using Tinkercad.

✦ Skills Practiced

Design 3D objects and combine shapes to create a unified 3D design.

Outcome for Session 2

An MIT App Inventor prototype of the Eco-Digital Platform and a 3D badge/logo created in Tinkercad to represent the app.

Session 3: Developing Digital Eco-Solutions

Activities

1. Developing a Web Page

✦ Task

Develop an HTML and CSS web page for school website that reflects the Eco-Digital Platform. Add the 3D Badge/ Logo created on the school's web page.

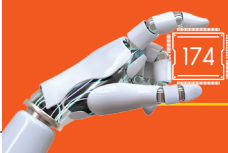
✦ Skills Practiced

Structure the web page with HTML and style it using CSS properties for an appealing layout.

2. Congratulating Eco-Friendly Ideas

✦ Task

Write a Python program that takes an eco-friendly tip from a student, displays it along with the student's name and congratulates them for sharing a wonderful tip.



◊ Skills Practiced

Interacting with the Python interface

Outcome for Session 3

A web page showcasing the school's information and eco-friendly tips from students, along with Python code to congratulate them for their participation.

Final Deliverables

Tick (✓) the box if submitted:

- ◊ A Presentation on the features and objectives of the Digital Citizenship Hub.
- ◊ An Excel sheet tracking eco-friendly tips and student contributions.
- ◊ A Canva prototype of the Hub's user interface.
- ◊ A working Hub application in MIT App Inventor.
- ◊ A 3D logo designed in Tinkercad.
- ◊ An HTML and CSS page showing eco-friendly tips and participation data.
- ◊ A Python program for Congratulating Eco-Friendly Ideas.

