

AICT Lab Semester Project Instructions

Total Marks: 55

Group size: 5 students

Course Instructor: Ms. Ramsha Khalid

1. Project Overview

Each group selects one project idea (from the provided list). The workflow is linear and continuous: you **first design and publish a website**, then prepare a supporting Word document describing it, create an Excel workbook quantifying data used on the site, build a PowerPoint presentation based on the site and data, use GitHub continuously to version and publish changes, produce a short-animated video demo, and finally publish the video on LinkedIn with the GitHub link. Every deliverable must reference the same project and be consistent.

2. Single-Chain Step-by-Step Workflow

Step 1 — Website Design & Build (HTML + CSS)

15 marks

Goal: Create the project's live website — the central artifact.

Minimum content: Home, About, Product/Service or Features, Gallery or Samples, Contact.

Design/technical musts: semantic HTML5, external CSS, responsive layout (basic), use Flexbox or Grid for major sections, images and captions, clear navigation.

Deliverable at this step: Live site preview + repository initial commit.

How it feeds next steps: Screenshots, copy (text), images, and data on the site will be used to write the Word document, populate Excel, and form slides and video script.

Step 2 — Project Document (MS Word)

5 marks

Goal: Produce a professional document describing the website project and the project decisions.

Core sections (required):

- Cover page (project title, group members, course, course instructor name, date)
- Executive summary (one paragraph)
- Project objectives & scope
- Site structure & navigation (pages and purpose)
- Design choices (fonts, colors, layout decisions)
- Assets used (images, data sources)
- How to run/publish the site (brief guide)
- Reflection (what was learned, improvements)

How it connects: Include screenshots and the live site URL. The document must quote the exact figures or lists later used in Excel and slides.

Step 3 — Quantification & Data (MS Excel)

5 marks

Goal: Provide underlying tabular data and calculations that support the website (prices, inventory, schedules, analytics mock-data, financials, booking cost, etc.).

Minimum sheets:

- Raw Data (items/services, fields used on website)
- Calculations (formulas demonstrating totals, averages, conditional counts)
- Summary Dashboard (at least one chart and a small table summary)

Techniques to include: formulas (SUM, AVERAGE, IF), data validation (dropdown), conditional formatting, and one chart.

How it connects: Data in Excel must match the website content (e.g., product prices, schedule times), and screenshots of charts go into the Word doc and slides.

Step 4 — Presentation Slides (PowerPoint)

5 marks

Goal: Create a 8–12 slide presentation that narrates the project and demonstrates the live site and Excel data.

Suggested slide flow: Title → Objectives → Demo screenshots (Home, Product, Contact) → Key data & chart from Excel → Design decisions → Demo link & GitHub URL → Reflection & next steps.

Requirements: use Slide Master; embed at least one chart (screenshot or embedded) from Excel; include short demo screenshots and the live GitHub Pages link.

How it connects: Slides summarize website + document + Excel; they will be the script for the video animation.

Step 5 — GitHub — Versioning & Publishing

5 marks

Goal: Use GitHub to version, store, and publish the website via GitHub Pages. GitHub actions: initial commit after website skeleton created, regular commits after each major change, final commit on submission. Provide a published link to GitHub Pages.

Minimum actions required:

1. Create a repo groupname-projectname (public).
2. Commit website files (index.html, other .html files, style.css, /images).
3. Write a concise README.md that includes project summary and links to Word/PPT/Excel or screenshots.

4. Enable GitHub Pages and provide the published link.

How it connects: The repo holds the website; the README will contain links to other deliverables, and commit history proves progressive work (useful for grading).

Step 6 — Video Animation (30–60 sec)

15 marks

Goal: Make a short animated demo (PowerPoint export, Canva, or any simple animator) that shows website highlights, charts, and conclusions.

Script structure (approx.): Title (3–4s) → problem & solution (7–10s) → site walkthrough (15–20s) → key data/insight (7–10s) → CTA: GitHub link & group credits (3–5s), course name and instructor name.

Technical requirement: MP4 format, 720p minimum. Keep audio optional (subtitles recommended).

How it connects: Use slides and website screenshots as source for animation; use the same copy/branding.

Step 7 — LinkedIn Posting & Submission

5 marks

Goal: Publicly present the project video and publish the GitHub link.

LinkedIn Post requirements:

- Post your project video with a short caption that includes the project title and a one-line, impactful description of your work. Add your GitHub Pages URL, mention your group members with their first names and roles, describe your team coordination.
- 5 Tags: Tag **Alzaraan Software House** (@alzaraan software house) and Give special thanks for collaboration. Also Give credits to **Course Instructor** (@Ramsha Khalid), **your TA** (@), **Chairman** (@Muhammad Usman Ghani Khan), and the **Department** (@Department of Computer Science) for their guidance and constant support by tagging them.
- Lastly, explain how the AICT lab helped you and what skills you learned from it.
- Include at least 2–4 relevant hashtags.

Provide a screenshot of the published post in WORD and PPT also as part of the final PDF submission.

Final submission package: Single compiled PDF (Word doc + Excel screenshots + PPT slides screenshots + website screenshots + LinkedIn screenshot + GitHub link), and GitHub repo URL. Submit via LMS/WhatsApp as per instructor.

3. Deliverables

- Live website published link (GitHub Pages)
- GitHub repository link (public)
- Single **compiled PDF report** (contains Word document content, Excel screenshots, PPT key slides, website screenshots, reflections, LinkedIn screenshot)
- PowerPoint file (PPTX) and Excel file (XLSX) uploaded to GitHub or LMS
- Video MP4 file and LinkedIn post link

4. Evaluation & Marking (Total = 55 marks)

All marks apply to the integrated, continuous project. Each criterion evaluates how well the output aligns with and documents the **same website project**.

A. Website Quality — 15 marks

- Structure & Semantics (headings, accessibility basics) — 4
- Styling & Layout (CSS usage, spacing, alignment) — 4
- Responsiveness & Usability (basic mobile layout) — 3
- Visual clarity & content consistency with other deliverables — 4

B. Project Document (MS Word) — 5 marks

- Professional formatting, clarity, and completeness — 2
- Inclusion of screenshots and correct live URL — 2
- Reflection and improvement plan — 1

C. Excel (Data & Analysis) — 5 marks

- Correctness of formulas and calculations — 2
- Use of validation / conditional formatting — 1

- Chart/dashboard clarity and relevance — 2

D. Presentation (PowerPoint) — 5 marks

- Logical flow and narrative consistency with website — 2
- Visual design (slide master, readability) — 1
- Embedded data/charts and site screenshots — 2

E. GitHub & Versioning — 5 marks

- Proper repo with README and regular commits shown — 2
- GitHub Pages published and working link — 2
- Final folder cleanliness (no unnecessary files) & submission of PPTX/XLSX — 1

F. Video Animation & LinkedIn Post — 15 marks

- Video clarity, condensing the project into 30–60s — 10
- Use of site screenshots/slides and presenting data — 5

G. LinkedIn Post — 5 marks

- LinkedIn post presence + post screenshot in final PDF — 5

Total = 15 + 5 + 5 + 5 + 5 + 15 + 5 = 55

5. Grading Notes & Common Penalties

- **Inconsistency penalty:** If the website says “Item A = \$10” but Excel shows \$12 for the same item → marks deduction under website / Excel consistency.
- **Missing GitHub Pages link** → lose up to 2 marks in GitHub section.
- **Missing LinkedIn screenshot** → lose 1 mark in the video/LinkedIn section.
- **Late submission:** Apply instructor’s late policy.
- **Plagiarism / AI-generated content:** automatic fail for originality; instructors may investigate.

6. Submission Checklist

- GitHub repo link (public) + GitHub Pages link
- Compiled PDF (report with screenshots and reflections)
- PPTX and XLSX files uploaded in repo or LMS
- MP4 video file uploaded (and LinkedIn post link included)
- README.md in repo with short project summary and links
- contribution.txt listing group members and roles