



COMPUTER SCIENCE 3
SUMMATIVE EXAM (PRACTICAL EXAMINATIONS)

OBJECTIVES

- Demonstrate mastery of HTML and CSS in creating standards-compliant websites.
- Transform client requirements or instructions into a functional website.
- Apply visual design concepts to deliver quality websites that keep up with modern design trends.
- Deliver a quality website that carries a responsive design that is adaptive to varying screen sizes.

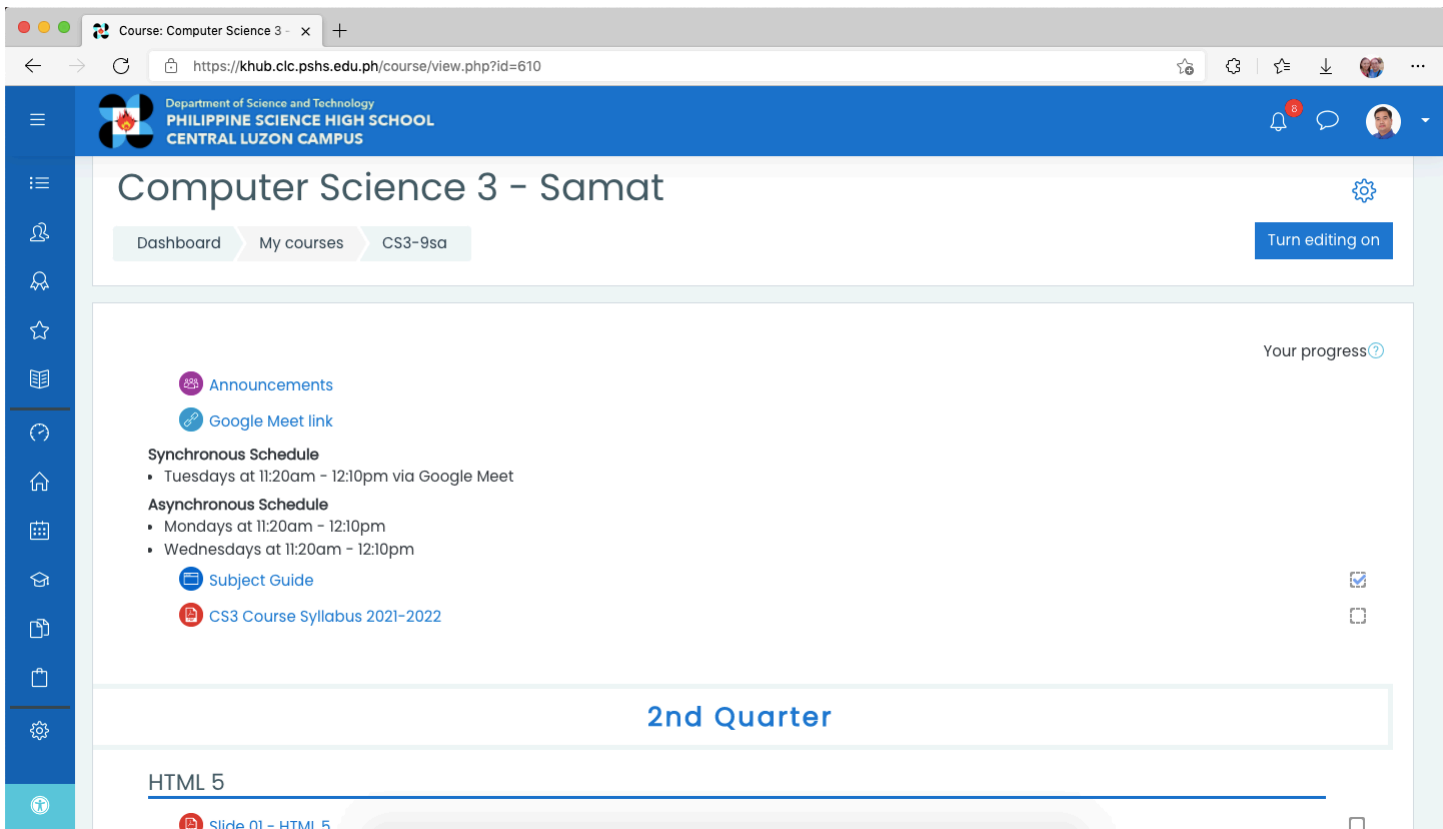
GENERAL DIRECTIONS

- Work by group.
- Upload the website to GitHub Pages. All members need to submit the link in the K-Hub submission bin.
- Deadline is on January 25, 2022, Tuesday.

KNOWLEDGE HUB, REIMAGINED

- 1) Create your own version of the Knowledge Hub.
- 2) Have the following pages in your site:
 - a. 1 Homepage if not logged in – shows options to sign in, does not need to be functional
 - b. 1 Homepage if logged in – shows a list of subjects for Grade 9
 - c. ≥1 Subject / Course page – shows the materials (like links to references) and activities of the subject
 - d. 1 Quiz page – simulates an actual quiz, does not need to be functional
 - e. ≥1 Grades page – simulates the K-Hub grade book as seen by subject
 - f. 1 Author page – accessible through the subject / course page like a reference material
- 3) Ensure that your site is free from errors and warnings by checking it against the W3C Validator.
- 4) Observe the design rules on Layout and Composition, Images, Color, and Typography. Design will be graded in this activity so make sure that your photos, videos, and other media will load properly. Your design theme must be carried across all pages unless the content of the page clearly requires a different appearance.
- 5) Your website must implement responsive web design principles. It should appear and behave properly as seen on different devices. The following devices that will test the site are:
 - a. Desktop – Apple MacBook Air 2017, 1440x900, Microsoft Edge (Chromium-based)
 - b. Tablet – Apple iPad Pro 2nd Generation, 768x1024 portrait, Microsoft Edge (Chromium-based)
 - c. Phone – Samsung Galaxy S10, 1440x3040 portrait, Microsoft Edge (Chromium-based)
- 6) Your website content should be free from age-inappropriate materials such as suggestive themes, vulgar language, excessive violence, sex, drug abuse, or hate speech.

You may refer to online references such as W3Schools to get ideas on how to make CSS and RWD bring out the best in your idea onto your website. Design will be graded together with the objectives in the rubrics below.




Screenshot of the PSHS Knowledge Hub Subject / Course Page

GRADING


Total Points: 60 points

| Criteria | Excellent | Good | Fair | Poor | Score |
|--------------------------------|--|--|--|---|-------|
| Page Quantity | More than 6 pages have been created, above and beyond the expected quantity. 10 pts. | There are 6 pages made. 7 pts. | There are only 4 to 3 pages on the website. 4 pts. | There are only 1 or 2 pages on the website. 1 pt. | |
| Website Quality | Interests are described with complete ideas. Images, videos, and other media are loading properly. Links work well and are not broken. No age-inappropriate content is present. 10 pts. | One element as described is missing. 7 pts. | Two elements as described are missing. 4 pts. | All elements as described are missing. 4 pts. | |
| Layout Responsiveness | There is reasonable negative space between non-related elements. The contents are logically ordered. The design is responsive across all 3 devices as sampled 10 pts. | One element as described is missing. 7 pts. | Two elements as described are missing. 4 pts. | All elements as described are missing. 1 pt. | |
| Colors, Images, and Typography | Choice of colors and images complement the webpages perfectly. There is one primary color with secondary colors that harmoniously go together. Images are of good quality and not stretched. Choice of fonts complement the webpages perfectly. Chosen fonts are legible. 10 pts. | One element as described is missing. 7 pts. | Two elements as described are missing. 4 pts. | All elements as described are missing. 1 pt. | |
| Validation | Pages have no errors or warnings. 10 pts. | Pages have 1 to 2 errors or warnings. 7 pts. | Pages have 3 to 5 errors or warnings. 4 pts. | Pages have more than 5 errors or warnings. 1 pt. | |
| Timeliness | Project is submitted on time. 10 pts. | Project is submitted within 3 days after due date. 7 pts. | Project is submitted within 7 days after due date. 4 pts. | Project is submitted beyond 7 days after due date. 1 pt. | |

Prepared by:


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