

## SOFTWARE SYSTEM DEVELOPMENT – Monsoon 2021

### Assignment 2 – HTML, CSS, JavaScript

**Submission Due Date: 11 October 2021, 5 pm**

#### Important Notes:

- This assignment is an individual submission.
- This assignment has two parts. Part A and Part B are listed below.
- Total Marks of **100** Marks
- All script submissions should be done as per instructions.
- Inputs/output should fit the criteria mentioned in respective questions.
- Post your queries in Assignment Queries Channel in MS Teams.
- Submissions should be done via Moodle only. ZIP both PART A and PART B submissions together and upload them in Moodle.

#### PART A - Personal Homepage (Total: 50 Marks)

**Aim:** Learn to use HTML, CSS, JavaScript to build a personal and professional website

##### Submission Guidelines:

1. ZIP the HTML, CSS, JS, README file and submit them in Moodle.
2. Name the ZIP has **<rollnumber>\_PARTA.zip**
3. README should contain your github.io URL and anything else you wish to inform the evaluator about the site.
4. The URL of your website should be **<roll\_number>.github.io**
5. **If these guidelines are not followed, you may get ZERO marks (0)**

**Requirements:** Follow below guidelines to build your personal professional homepage.

- Your personal website should be a SINGLE page website. It should have multiple **tabs** linked together under a single navigation bar. (Example: Home, About, Education, Publications etc.) **(5 Marks)**
- Using CSS+JavaScript – Toggle content based on the menu item in a single page i.e., when clicked on Home tab, the content related to Home should load under the content pane, when clicked on Education, the content related to education should load under the same content pane without refreshing the page. **DO NOT use JS libraries. (10 Marks)**
- Include your profile image and at least 2 more images (your alma matter or Company Org) through an external link. Images should have alt text. **(1 Marks)**
- Link 2 external websites as hyperlink in the content or anywhere in your website (Example: IIIT Website, Your school website, your degree, or anything relative etc.) **(5 Marks)**
- Include at least one table which makes use of merged table cells (rowspan or colspan or both). You may include this anywhere, while aligning your content or display with/without border **(1 Marks)**
- Your website should be Mobile Friendly - <https://search.google.com/test/mobile-friendly> **(10 Marks)**
- Fill your website with content (Example: Information related to your professional, personal, education, skill, competency, employment, blogs, videos, pictures, contact, News/updates) **(10 Marks)**
- Link your CV as PDF through an external link **(1 Marks)**

- Link your professional social media contacts (Linkedin Badge, Google Scholar, DBLP, ResearchGate, GitHub Profile, CodeChef Badge etc.). DO NOT link your personal social media contacts (Facebook/Twitter etc.) (1 Marks)
- Manage Font, Font-size, Headings, Content text, Image alignments, Content alignments using External CSS file. You may use google fonts <https://fonts.google.com/> as per your CSS (5 Marks)
- Print Current Date Time using the visitor system time-zone using JavaScript. Do not use JavaScript Libraries. (1 Marks)

Example Sites for your reference: <https://donnemartin.com/> , <https://spmohanty.com/>

## **PART B – Build a Website for a SERC Research Lab <https://serc.iit.ac.in/> (50 Marks)**

**Aim:** Learn to use HTML, CSS, JavaScript to build a website for research center. The best submission will be officially hosted as the SERC Website. You are free to use any freeware theme, JS library, CSS etc.

**Source:** Fetch the content from <https://serc.iit.ac.in/>, Google Scholar, DBLP

### **Submission Guidelines:**

1. ZIP the HTML, CSS, JS, README file and submit them in Moodle.
2. Name the ZIP has <rollnumber>\_PARTB.zip
3. **If these guidelines are not followed, you may get ZERO marks (0)**

**Requirements:** Follow below guidelines to build a website for research center.

1. **Provide Admin Mode to manage content listed in below sections (2,3,4) (10 Marks)**
2. Rebuild the site with a new theme (20 Marks)
  - a. **About the Center**, Focus Area (5 Marks)
  - b. Student/**Faculty**/Alumni Profiles (10 Marks)
  - c. Resources and Contact (5 Marks)
3. Publications (10 Marks)
  - a. Read publication data from sources like Google Scholar/ DBLP of all contributors of the SERC and populate them Static/dynamically by person and year
4. News/Updates (10 Marks)
  - a. Provide a News/Updates Roll
  - b. Provide space for Twitter/Linkedin handle linkage