# **SINGAPORE POLYTECHNIC**

**SCHOOL OF COMPUTING**

**COMMON INFOCOMM TECHNOLOGY PROGRAMME (Year One)  
DIPLOMA IN INFOCOMM SECURITY MANAGEMENT (Year One)**

**DIPLOMA IN INFORMATION TECHNOLOGY (Year One)**

**DIPLOMA IN APPLIED AI AND ANALYTICS (Year One)**

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| **Module Code** | **:** | ST0501 |
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| **Module Name** | **:** | Front-End Web Development |
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| **Acad Year/Semester** | **:** | 2020/2021 Semester 1 |
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| **Assignment Title** | **:** | CA2 – Interactive Website |
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| **Assignment Type** | **:** | Individual |
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| **Weightage** | **:** | 40% |
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| **Deliverables & Deadline (what & when)** | **:** | **All files used in the web pages.**  **7th Aug, Friday, 11.59pm**  Digital submission in Blackboard (esp.sp.edu.sg) File naming convention example: DIT1A02\_1947442\_LeeYanMeng.zip |
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| **Late submission after the deadline** | **:** | **50%** of the marks will be deducted for assignments that are received within **ONE (1)** calendar day after the submission deadline. **No** marks will be given thereafter.  Exceptions to this policy will be given to students with valid LOA on medical or compassionate grounds. Students in such cases will need to inform the lecturer as soon as reasonably possible. |

**Objectives**

* Use HTML5 and CSS3 scripting to create web pages.
* Use Bootstrap framework to create a form in a web page to collect user input.
* Use Bootstrap framework to create mobile-friendly website.
* Use of Javascript to create interactivity of web pages.

**Technical Specifications**:

* Create a website of **five** web pages (include Home page **index.html**).
* You should choose one of the following topics to build your website:
  + Software Development/IT Solution Provider
  + Cybersecurity Services
  + Applied AI and Analytics Training and Consultancy
* The content and design elements of your website must be ORIGINAL. You are **not allowed** to use content and designs elements from templates or use frameworks like Wordpress, Drupal, Joomla, Wix or any other frameworks.
* Fair use of free stock images/photos must be given attribution in your website.
* Web Graphics file size should not exceed 800KB.
* Scripting and Styling should be accessed via external files.

**Warning:** Plagiarism means passing off as one's own the ideas, works, writings, etc., which belong to another person. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turning it in as your own, even if you would have the permission of that person. Plagiarism is a serious offence and disciplinary action will be taken against you. If you are guilty of plagiarism, you may fail all modules in the semester, or even be liable for expulsion.

**Marking Scheme**:

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| 1 | Content | 20% | * All of the editorial content of the site must be user-centric, well-written, accurate, informative, and worth reading. * The web pages should be organized and aesthetically pleasing. |
| 2 | Layout design using **Bootstrap** | 20% | * Able to use Bootstrap's grid system to layout and align content. Good use of space in layout design. * Layout of content responding to three breakpoints:   + (mobile): display one column layout   + (tablet): two column-column layout   + (desktop): three columns or more layout * Use of table, rows and columns to display relevant data. |
| 3 | Forms, navigation, and graphics display using **Bootstrap** | 20% | * Correctly structured, choice and use of Bootstrap form elements, layout of the **form**. * Well-designed (colour, layout, consistency) **navigation elements** using Bootstrap. * Able to add **images** to Bootstrap pages and make images responsive. * Additional features using Bootstraps (eg. Cards, Carousel, Modal etc) |
| 4 | Javascript coding | 20% | * Practical use of interactivity by applying Javascript and show evidence of the following:   + Object and its method and properties   + Variables and functions   + Arrays, loops and conditional statements * Comments added in documents and codes are formatted for readability. * Error-free mark-ups. |
| 5 | HTML and CSS coding | 10% | * Elements with corresponding attributes and values are used efficiently and structured correctly. * Selectors with corresponding properties and values are used efficiently and structured correctly, styling to all html pages. * Comments added in documents and codes are formatted for readability. * Error-free mark-ups. |
| 6 | General website management | 10% | * Adhere to technical specifications. * Organization of files (there should be folders to segregate different types of files eg. html, css, js, graphics files). * Apply appropriate file-naming convention. * Development adhere to project plan. |