**Subject**: Web Development **Lesson**: Bootstrap

**Class**: Grade 10 & 11 **Time**: 2 Sessions (100 minutes)

**Date**: 00/00/2018 **Teachers**: M. Al-Musawi, R.Damaj & R.Khalil

**Purpose of the Lesson:**

The main purpose of this lesson is to demonstrates how to use Bootstrap features to improve the layout of websites.

**Objectives**:

After completing this lesson, you will:

1. Learn what CDN means.
2. Learn how to add Bootstrap CDN to their website.
3. Learn how to use different Bootstrap classes to change the style of different elements in a website, ex: Buttons, Navbar.
4. Learn about the Bootstrap Grid System.

**Terms:**

Bootstrap, grid system, navbar and Content Distribution Network.

**Session:**

1. Define CDN.

Content delivery networks ([CDN](https://www.incapsula.com/cdn-content-delivery-network/)) are the transparent backbone of the Internet in charge of content delivery. Whether we know it or not, every one of us interacts with CDNs on a daily basis; when reading articles on news sites, shopping online, watching YouTube videos or perusing social media feeds.

<https://www.incapsula.com/cdn-guide/what-is-cdn-how-it-works.html>

1. Define Bootstrap.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS.

<https://getbootstrap.com/>

1. Adding Bootstrap CDN to html file.
   1. Go to <https://getbootstrap.com/>
   2. Copy the bootstrap CDN <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">
   3. Add the CDN to HTML Head tag.

1. Bootstrap Buttons.

<https://getbootstrap.com/docs/4.0/components/buttons/>

1. Bootstrap Navbar.

<https://getbootstrap.com/docs/4.0/components/navbar/>

1. Bootstrap Grid System.

https://getbootstrap.com/docs/4.0/layout/grid/

**Exercise:**

Create an HTML form that have the following inputs.

**Requirements:**

1. Two inputs type text for first and last name.
2. Input for the date of birth.
3. Select option to select the subject
4. Input type radio to check whether the student a male or female.
5. The form should be well designed.