**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:**

1. 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.

Go to <https://getbootstrap.com/>

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">

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 a webpage containing the following page.

**Requirements:**

1. Use Bootstrap.
2. Use Bootstrap collapsed Navbar.
3. Use hex color code.
4. Use Google fonts to change the font type of the text.