Summer Workshop 2014
Front-End Programming with JavaScript and jQuery*

JavaScript is a well-known and defacto standard of client-side script for the development of dynamic webpages. With the foundation of JavaScript, developers would find a cross-platform JavaScript library called jQuery useful in building up interactive and fancy websites.

To introduce our students this popular language, the Division of Applied Science and Technology organized two sessions of 3-day training workshop to students studying Associate of Engineering, Associate of Science in Information Systems Development and Associate of Science in Network and Systems Administration#. During the workshop, the basics of JavaScript and jQuery were covered. The following shows greater details of the workshop.

Date: 24-25, 27 June 2014 & 7-9 July 2014
No. of hours: 15

Goal
The goal of this workshop is to equip students with fundamental knowledge and skills in web/mobile system production as required for the subsequent courses (e.g. Web Programming and Application for Portable Devices) and Final Year Project.

Intended Learning Outcomes
Upon the completion of this activity, students should be able to:
1. Understand the role of JavaScript and jQuery on webpage design;
2. Develop websites with dynamic content and user interactivity, and
3. Enhance their problem solving and software development skills for further study / employment.

* The study tour is sponsored by CCCU Quality Campus Life Fund.

#No. of students from each programme:

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<tr>
<th>Programme</th>
<th>AENG</th>
<th>AScISD</th>
<th>AScNSA</th>
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<tbody>
<tr>
<td>No. of students</td>
<td>15</td>
<td>41</td>
<td>15</td>
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Topics covered

- JavaScript
  1. Introduction to JavaScript
  2. Quick review of programming constructs:
     a. Data types and variables
     b. Arithmetic, relational and logical operators
     c. Control structures (branching and looping statements)
     d. Arrays and functions
     e. Object-Oriented Programming
  3. Essential of JavaScript
     a. Document Object Model (DOM)
     b. Event handling
     c. Canvas programming

- jQuery
  1. Introduction to jQuery
  2. jQuery setup
  3. Syntax
  4. Selectors
  5. Events
  6. Effects
  7. CSS manipulation
  8. DOM manipulation

The workshop was coordinated by Dr. Desmond TSOI, Programme Leader of Associate of Science in Information Systems Development and conducted by Mr. Jackie Kwong, an industry expert on JavaScript and jQuery.

Our students who attended this event expressed that they learned one more useful tool and they wished the Division to offer more workshops of this kind in the future.