



*Summer Workshop 2014 Visual Basic for Applications**

Visual Basic for Applications (VBA) is a programming language that could be used to access the functionalities of software under Microsoft Office, in particular, it is most useful to interact with Microsoft Excel.

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 Applied Business Statistics, Associate of Science in Information Systems Development and Associate of Science in Network and Systems Administration[#]. During the workshop, the basics of VBA were covered. The following shows greater details of the workshop.

Date: 2-4, July 2014 & 14-16 July 2014

No. of hours: 14

Goal

The goal of this workshop is to equip students with knowledge and skills in apply VBA to solve real world problems, which provides students exposure to commonly used tool that is not covered in current curriculum of AENG, AScABS, AScISD and AScNSA.

Intended Learning Outcomes

Upon the completion of this activity, students should be able to:

1. Understand what we can do with Microsoft Excel using Visual Basic for Applications (VBA) macro;
2. Solve problems via the development of VBA program, and
3. Develop problem solving and software development skills for further study / employment.



* This activity is sponsored by CCCU Quality Campus Life Fund.

[#]No. of students from each programme:

Programme	AENG	AScABS	AScISD	AScNSA
No. of students:	7	3	18	10

Topics covered

1. Overview of Visual Basic for Applications (VBA)
2. VBA Fundamentals
 - a. Terminology
 - b. Object Model
 - c. Worksheets
3. VBA Programming Environment
4. Brief review of programming fundamentals of VBA
 - a. Variables and constants
 - b. Branching and looping
 - c. Arrays
 - d. Built-in functions and operators
 - e. User-defined functions
 - f. Procedures
 - g. OOP concepts: objects, methods and properties
 - h. Error handling
 - i. Using Excel objects
 - j. Creating and programming custom forms
 - k. VBA and charts
 - l. Application development

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 Visual Basic for Applications.

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.

