# Teaching Program Design: an e-Learning Module

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## ABSTRACT

This software demonstration is of an e-learning module for teaching a facet of program design; structure diagrams. The module will be accessed via the Polytechnic's Intranet and can therefore be used as a tutorial by computing students at their own pace and in their own time. This e-learning module is an interactive and graphical training tool which students have readily accepted. In the future we plan to develop other suitable topics in this style and make them available to assist student learning.

## 1.      Introduction

This demonstration shows an e-learning module developed by a tutor at the Whitireia Community Polytechnic. The module demonstrated here is a tutorial for computing students who are learning about structure diagrams, a technique for computer program design.

This is an example of how a simple package such as Microsoft PowerPoint is used to create an interactive and graphical training tool for students to use at their own pace and in their own time. This colourful, simple, relevant and motivating module covers one small specific topic, program design, in the PP100 course. Student acceptance and feedback has been very positive.

## 2.      The Future

We plan to develop other small modules in this style on other topics and provide a suite of such modules for student learning. The modules will be accessed through the Polytechnic's intranet.

Other planned modules -

♦ structured English,
♦ decision tables,
♦ decision trees,
♦ UML use case diagrams,
♦ UML activity diagrams,
♦ UML class and object diagrams,
♦ UML interaction diagrams,
♦ UML deployment diagrams,
♦ Entity Relationship Diagrams,
♦ Data Flow Diagrams,
♦ topics in mathematics,
♦ academic referencing,
♦ how to use the Polytechnic library site,
♦ introductory MS Access,
♦ MS Powerpoint,
♦ MS Office, introductory Dreamweaver,
♦ introductory Oracle,
♦ getting started with email,
♦ getting started with the Internet

...the list is endless.