# COMP 2920 : Software Architecture & Design

# Assignment #1

**Due Date : 22nd September 2017 midnight (0 for late submissions - Strictly)**

**Max marks : 10 + 10 +10 + 10 Weight : 4%**

# Assignment 1: Concept Challenge

## Introduction:

This assignment is worth 4% of your final grade.

### Part 1: Questions for Module 1 (Introduction to Software Design and software development process models)

Question 1: Explain the difference between incremental development and waterfall model, mainly explaining the advantages of incremental development?

Question 2: Giving reasons for your answer based on the type of system being developed, suggest the most appropriate generic software process model that might be used as a basis for managing the development of the following systems:

* A system to control anti-lock braking in a car
* A virtual reality system to support software maintenance
* A university accounting system that replaces an existing system
* An interactive travel planning system that helps users plan journeys with the lowest environmental impact

### Part 2: Questions for Module 2 (Need and role of Software Architecture & Architect)

Question 1: How are requirements, architecture, design and implementations are related with context of software development?

Question 2: Do you believe that a separate profession of ‘software architect’ is a need of the software industry as on today? What would be his/her role? If done, what may be the difficulties of for such a professional?