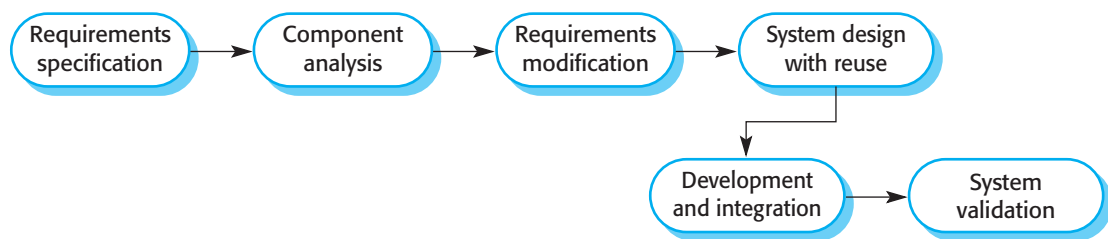**WIA2002 Software Modelling**
**Semester 1, 2016/17**
**Tutorial 2**

1. 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

2. Explain why incremental development is the most effective approach for developing business software systems. Why is this model less appropriate for real-time systems engineering?

3. Consider the reuse-based process model shown below.



Explain why it is essential to have two separate requirements engineering activities in the process.

4. Historically,the introduction of technology has caused profound changes in the labor market and, temporarily at least, displaced people from jobs. Discuss whether the introduction of extensive process automation is likely to have the same consequences for software engineers. If you don't think it will, explain why not. If you think that it will reduce job opportunities, is it ethical for the engineers affected to passively or actively resist the introduction of this technology?