

## Lecture 01 Group exercises

### Assignment 1: Exploration of problems (20%)

Discuss 2-3 cases of IT projects that you know either directly or from the news. Address the questions:

- How was the outcome of the IT project a success and/or a failure?
- What are the reasons given?
- How do you know this?
- In which ways can good/bad software engineering practices be attributed to the success/failure?

### Assignment 2.1: Differences between main processes (40%)

Discuss the benefits and drawbacks of the three main processes described in Sommerville ch. 2. Document your understanding in the table below by filling out the table where the columns are labeled "Benefits" and "Drawbacks," and the rows are labeled "Waterfall development," "Incremental development," and "Integration & configuration."

Then discuss how the differences can be used in choosing an appropriate process given different situations and circumstances.

	Benefits	Drawbacks
Waterfall		
Iterative /		
Incremental		
Integration &		
Configuration		

### Assignment 2.2

Discuss how the four generic activities: Specification, Design and Implementation, Validation, and Operation, are implemented in the three different process models: Waterfall, Incremental and iterative, Integration, and configuration.

### Assignment 3: In your project (40%)

If you have done assignment 2, apply the results to your project this semester. Of course, these are still a few vague ideas on the drawing board but go ahead nevertheless. The thinking you put into your project will not be wasted though it may change in the coming weeks.

The questions you should try to answer are:

- What will our primary process be (waterfall, incremental, integration & configuration, or a mix)?
- Why?

Document your answers here:

### **Group rooms**

Group rooms are used exclusively for group exercises during the scheduled time periods. None else is allowed in the rooms.