Assignment 4. Defect Prevention

*Department of Software Engineering*

The Defect Prevention part of this course gives you the opportunity to consider the different aspects of performing preventive actions within software engineering product development. A report shall be written in teams of two (2) students. The report shall reflect the team’s joint thoughts and views regarding Techniques/Processes/Methods (TPM) applicable for Defect Prevention.

The report shall address the following:

1. The team´s interpretation of the definition of Defect Prevention
2. TPM:s specifically directed towards Defect Prevention
   * Positive and negative characteristics for the TPM:s
3. Try to identify and describe alternative solutions to Defect Prevention to avoid defects in the final product
4. Cost and Benefit analysis of the Defect Prevention TPM:s addressed in the report
   * Is there an expected high return on investment?
   * Is it a high or low effort TPM to use the technique?
   * Is it an effective TPM to use?
5. Recommendation with motivation why a specific company/project shall use the TPM
   * State the setting for the company/project
   * Recommend a technique for:
     1. Requirements
     2. Design
     3. Implementation
     4. Testing

**Literature:**

To start with, there is a book extract made available (from Capers Jones’ book “Software Quality – Analysis and Guidelines for Success” as introduction), that you shall read. However, you are expected to retrieve other sources for information as well (Tips: ISO9001). It is mandatory that the sources shall be referenced, and retrievable by the teacher for verification that it is a valid source of information.

**Report:**

The report shall not exceed 4 pages in IEEE format, and it has to address the information requested by the instructions above.

Grading will be done according to the ECTS scale.