# Assessing individuals in team projects

A case study from the Computer Science course
TDA593 Model-Driven Software Development
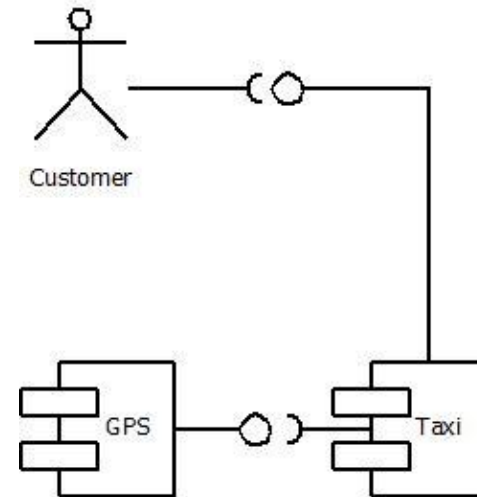
Håkan Burden, Rogardt Heldal and Tom Adawi

# Course structure

## Upto 2008

- Lectures
- Project
  - Week 1-7
  - Preparation for exam
- Final exam
  - Week 8
  - Individual grades

## Example of software model

# Course structure

**Upto 2008**

- Lectures
- Project
  - Week 1-7
  - Preparation for exam
- Final exam
  - Week 8
  - Individual grades

**From 2009**

- Lectures
- Project
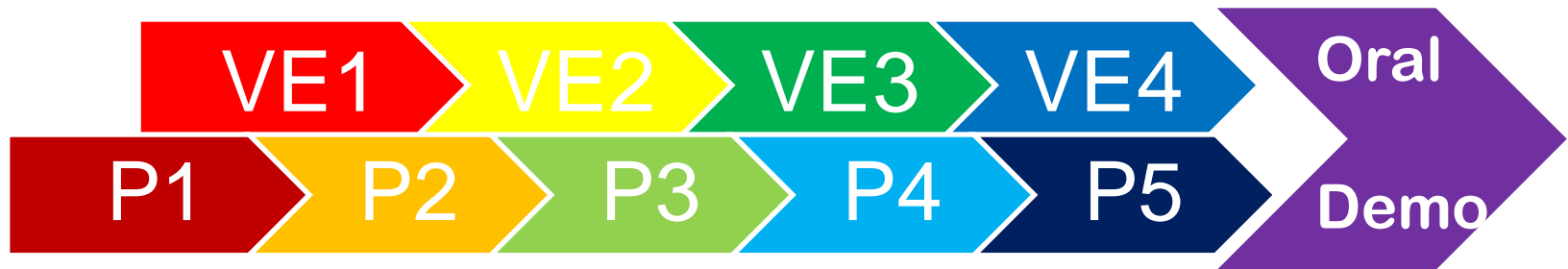  - Week 1-7
  -
-
  -
  - Individual grades

# Challenge:

# 1. How do we assign 'fair' grades to individual students working in teams?

# 2. Without increasing the number of teaching hours?

# Assessment forms

| Teacher | Peer | Self |
| --- | --- | --- |
| Voluntary examinations | Half-time review | Time report |
| Report | Contribution grade | |
| Demonstration | Contribution rank | |
| Oral examination | | |

# Integrating Examination and Project

# Assessment forms

| Teacher | Peer | Self |
| --- | --- | --- |
| Voluntary examinations | Half-time review | Time report |
| Report | Contribution grade | |
| Demonstration | Contribution rank | |
| Oral examination | | |

- We are pleased.
- But some students are not happy with their grades ...

# Grade distribution

| Grade | 2008 | | 2009 | | 2010 | |
|-------|------|-------|------|--------|------|------|
| 5 | 4 | (6.5%) | 11 | (12.5%) | 11 | (10%) |
| 4 | 16 | (26%) | 15 | (17%) | 20 | (19%) |
| 3 | 25 | (40%) | 40 | (45.5%) | 55 | (51%) |
| U | 17 | (27.5%) | 22 | (25%) | 22 | (20%) |
| Total | 62 | | 88 | | 108 | |

# Expected vs. given grade - the problematic cases

- 57 answers
- Expected 5 got 4:
  - 4 students
- Expected 5 got 3:
  - 4 students
- Expected 4 got 3:
  - 19 students

| Grade | 2010 | |
|-------|------|------|
| 5 | 11 | (10%) |
| 4 | 21 | (19%) |
| 3 | 55 | (51%) |
| U | 22 | (20%) |
| Total | 108 | |

# Questions for discussion

- Students expectations differ from the given grades:
  - Has a big impact on course and assessment evaluation.
  - Do we have the same problem in other courses?

- Is it possile to have more peer assessment:
  - Other forms of contributions to the assessment.
  - How can we incorporate peer assessment into the final grade?

- Other ideas for assessing indiviuals in team projects.