

# SOFTWARE ENGINEERING

**WELCOME TO MVK13  
12 NOVEMBER**

**BJÖRN THURESSON, KTH/HPCVIZ  
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**MVK13**

# LAYOUT

## **MVK13 – LAYOUT**

- "Best practice" in software engineering
  - Lectures and guest lectures
  - Active participation in project work
  - Feedback sessions
  - Communicate and document
- 
- Two courses, back to back, DD1365 (period 2) + DD143X (period 3-4), i.e.  $6 + 9 = 15\text{hp}$

## **MVK13**

# **THE PROJECTS**

## **MVK13 – THE PROJECTS**

- I collect proposals from industry, organisations and academia
- Different types and dimensions:
  - Explorative/well-defined
  - Commercial/non-profit
  - Low-level/high-level
  - ...
- Have a look at last year's project catalog for a sample:  
[http://www.nada.kth.se/~karim/mvk/MVK\\_project\\_proposals\\_2012.pdf](http://www.nada.kth.se/~karim/mvk/MVK_project_proposals_2012.pdf)
- This year's catalog will be available on Thursday Nov 14

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# **THE SCHEDULE**

## MVK13 – THE SCHEDULE

Tue	Nov 12	15-17	E1	Intro and logistics
Thu	Nov 14	13-15	D1	Group formation finalised
				<i>Project management</i>
				GL Ulf Bergqvist, Nordforce
Tue	Nov 19	15-17	E1	Presentation of proposals
Fri	Nov 22	8-10	F2	Project assignment ready, group work
Thu	Nov 28	15-17	TBD	<b>Presentation of planning + deliverable</b>
Fri	Nov 29	15-17	D1	<i>Development models</i>
				GL John McCarthy, Ericsson
Tue	Dec 3	15-17	D1	Reqs and recommendations
Thu	Dec 5	8-10	D1	<i>Development strategies and goals</i>
				GL Ulf Bergqvist, Nordforce
Tue	Dec 10	10-12	E1	Environmental scanning, competitor analysis, and research
Dec	Dec 12	10-12	E1	Documentation, communication and feedback
Thu	Dec 19	10-12	TBD	<b>Presentation of reqs and project status + deliverable</b>

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# DELIVERABLES

## MVK13 – DELIVERABLES

- A series of *drafts*

- Planning and implementation
- Description and motivation, reqs and specs
- Software architecture
- Final report (all of the above)

Deadlines before Christmas:

Thu	Nov 28	Initial planning
Thu	Dec 19	Description and motivation, reqs and specs, initial software architecture

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# SUCCESS CRITERIA

## **MVK13 – SUCCESS CRITERIA**

### High level:

- Well planned and executed project (internal and external goals met)
- Well motivated choices (grounded, researched and referenced)
- A well-adapted development model
- A functional software (on the agreed level)
- Well-communicated results (deliverables and presentations)

*I'll go through the detailed criteria for each step later (not today)*

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# **PROJECT GROUPS**

## **MVK13 – PROJECT GROUPS**

- Most of the work will take place in the groups
- Groups of 8-10 participants
- There's a cap of 16 projects that will be started
- All project groups should be formed on Thursday Nov 14!
- All groups will get a supervisor – make use of him/her!
- Several feedback sessions – you present, we comment

## **MVK13 – PROJECT GROUPS**

### **Formation:**

- Come to me after class today and sign up your project group

**or**

- Send me an e-mail ([thure@kth.se](mailto:thure@kth.se)) with your group members and group name
- Not in a group? Make yourself known now, if that doesn't work we assign you in class on Thursday

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# **FINAL POINTERS**

## **MVK13 – FINAL POINTERS**

- Don't forget to *register* for the course
- I'll use the KTH Social site for all communication and documentation <https://www.kth.se/social/course/DD1365/>



## MVK13 – FINAL POINTERS

- When you discuss the different project proposal, formulate to yourselves: What do you want to get out of the course?
- In the real world outside, it's all about being able to *show* your skills – build your portfolio of documented skills
- Anyone (almost) can get a grade, it doesn't say much of your abilities – the project shows your abilities, use it!
- Keep track of what you (as an individual) contribute with, what's your contribution?

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# NEXT TIME

## **MVK13 – NEXT TIME**

**Thu Nov 14, 13-15**

**D1**

- Group formation finalised
- *Project management*

GL Ulf Bergqvist  
Nordforce

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