











Pedagogical Approach

- Simulate a real project in a typical large software organization (**organzation**)
- Apply approaches used in current software engineering practice, such as project management, process model, milestones, reviews, etc. (process)
- Focus on organizational challenges while reducing technical risks, although realistic product (product)
- · Learning by doing: Case-based learning





Compendia: • project guide (PH) Lectures (4+1) Exercises (2) Labs (2) Experts (3+1): • requirements • design • test • Section manager Reviews (2+1)



Time plan										
Akti- vitet	v1	v2	v3	v4	v5	v6	v7	v8		
Fö	F1 F2	F3 F4					Fö5			
Övn	Ö1	Ö2								
Lab			Lab1	Lab2						
Gr			Gr1		Gr2					Acc- m





- · Seminar on problems in large projects
- · Discussions based on your input
- You can *submit* your *discussions-points* (will be kept anonymous if preferred) as input to I ecture 5 to martin.host@cs.lth.se











Frest group (~3+1 persons) esponsible for testing create test descriptions / automation and carry out testing communicating with development group (and supporting), participate in unit testing (experts on automated testing) produce the Software Verification and Validation Specification (SVVS), Software Verification and Validation Instruction (SVVI). Software Verification and Validation Report (SVVR) esponsible for co-ordinating appendices time reporting and error reporting a test manager must be appointed



Open positions as project managers We are looking for project managers! The job requires: • persistance, will to carry through, discipline The jobs gives: • experience, overview, satisfaction Previous experience not required, but merits are appreciated. Mo later than tomorrow at 13:15

Signing up for the project

If you have doubts about taking the course - make up your mind NOW! - participation requires that you sign up for the project (that's how I know that you will follow the course)

Choose project group via the homepage today no later than 19:00.

Groups will be formed as soon as possible - and lists be put up on the web.

... Maybe I will have to re-arrange groups.

Check your email often Wednesday/Thursday, as your project managers will send information and call for the first group meeting





Your task

• Develop a system that help commuters find cars and passengers



















Baseline

After a review and bug correction, you create a baseline whose constituent documents are "frozen". Subsequent changes are controlled.









Change management support documents

- Problem report consists of problem description, assessments of problems, proposed solutions, status of changes etc.
- Status report consists of status of all ongoing and conducted changes.
- May be done through "ePUSS" or any other formalized way



Nummer	Aktivitet	Specificering	
11	SDP	Arbete med dokument med bilagor.	
12	SRS		
13	SVVS		
14	STLDD		
15	SVVI		
16	SDDD]	
17	SVVR]	
18	SSD		
19	Slutrapport]	
21	Funktionstest	Arbete med testning	
22 23 30	Systemtest]	
	Regressionstest		
	Möte	Gruppmöte, expertmöte, etc	
41	Föreläsning	Inlärning, "kurstid"	
42	Övning		
43	Terminalövning]	
44	Självstudier	1	
100	Övrigt		

Nr		Eventuell beskrivning
Generella 11		
12		Felaktig/saknad referens inom eller mellan dokument
13		Följer ej standard
14		Innehåll ej relevant
15	Redundans	
16		Dokument ej fullständigt
17	Inkonsistens	Motsägelser
18	Begriplighet	Formulering/jod onödigt svår att förstå
19	Entydighet	Formulering mångtydig
SRS 21	Inkorrekt krav	
22	Spårbarhetsproblem	
25	Redundant krav	
26		
27	Inkonsistent krav	
28	0	
29		
31	Verifieringsproblem	
SVVS, 41		
SVVI & 42		
SVVR 45		
46		
48	Organisation	
50		Förväntat resultat saknas/felaktigt i testinstruktion
52	Testförutsättningar	Systemläge vid testfallets start saknas/felaktigt
53	Testavslutning	Systemläge vid testfallets slut saknas/felaktig
STLDD & 61		Indelning i moduler/delar olämplig
SDDD 62		
63	00	olämplig/[följer ej regler]
71	Realtidsproblem	kapplöpning/dödläge/handskakning/synkronisering
72	Logiskt fel	
73		
74	· · · · · · · · · · · · · · · · · · ·	
75	Effektivitetsproblem	
Övrigt 100) Övrigt	

How to collect metrics?

- Everyone must contribute
- Procedures necessary
- Tool for metrics collection (and change management) from department available (ePUSS)
 - But other solutions possible (as long as they are clearly described in your SDP
- Forms used at seminar (+ available for illustrative purpose)



Evaluation criteria

- for the project
 - process
 - product
 - final report
- for the individual
 - individual report







Individual report

See course homepage from Friday next week.

Start thinking about it now, and start "collecting data"

Objectives:

- to stimulate reflection on large-scale software development continuously through the course,
- to encourage a viewpoint on industrial practice in large-scale software development,
- to build on and integrate with what you have learned from previous courses,
- refering to research literature.



To do before exercise session 1

- book your exercise times
- study carefully the course programme
- familiarize yourself with the course material
- read PH chap. 1 through 4.4 (before exercise 1)
- get an overview of the development model (PH:A)
- Check out the course home page: http://cs.lth.se/ETSN05

Before your first project meeting

check email often (project managers call for meeting)

• study carefully the tasks of all roles (PH:3)