Method engineering 2006/2007 – Workshop topics

1 - Portfolio management (16)

Partnering & contracting
- **Partner selection**
- **Service Level Agreement**
- **Licensing/pricing**
- **Channel management**

Market trend identification
- **Competitor analysis**
- **Market research**

Product lifecycle management
- **Strategic planning**
  Scott, G. (2003). Internet/web systems development: What can be learned from hi-tech

- **Product portfolio assessment**

- **Product Lifecycle Strategy**

**Product line identification**

- **Product line portfolio planning**

- **Product line engineering /development**

- **Product Line Requirements Specification**

- **Product line mapping**

- **Variability management in product lines**

- **Change management in product lines**

- **Deriving the scope of software product lines**
2 - Product roadmapping (15)

Theme & core asset identification

- **Developing domain requirements as a core asset**

- **Roadmapping for global platform products**

- **Knowledge asset roadmaps**

Roadmap construction

- **Technology roadmapping**

- **Technology roadmapping – a planning framework**

- **Product Roadmapping in small software product businesses**

- **Non-linear roadmaps**

- **Scenario-based roadmapping**

- **Technology roadmapping and the Analytical Hierarchy Process**

**Baan case study**

6 students will be working on a case study on incremental method evolution, performed at Baan/Infor. Subjects are tracing of requirements, product definition, enhancement requests, roadmap process, process metrics & customer voting.
3 - Requirements management (16)

Requirements gathering
- **KAOS**
- **JAD for requirements specification**
- **Volere requirements**
  Robertson, S., Robertson, J. Volere Requirements. http://www.volere.co.uk/
- **IEEE recommended practice for software requirements specifications**
- **Misuse cases**
- **Open source requirements engineering**
- **Tropos: Goal modeling**
- **Viewpoints**
  *Possibly covers requirements identification and organizing as well.*

Requirements identification
- **Linguistic engineering**
- **Requirements abstraction model (RAM)**
  *Covers gathering and organizing as well.*
- **Requirements triage**
- **Quality function deployment**

*Requirements organizing*

- **Visualization of requirements interdependencies**

- **Feature modeling**

- **Aspect-oriented requirements**

- **Strategy-oriented alignment in requirements engineering**
4 - Release planning (16)

Requirements prioritization
- **SCRUM (Product backlog prioritization)**
  http://scrumforteamsystem.com/ProcessGuidance/
- **Cost-value approach for prioritizing requirements**
- **Features prioritization matrix**
- **Easy WinWin / WinWin requirements negotiation**

Requirements selection
- **SCRUM (Sprint planning)**
  http://scrumforteamsystem.com/ProcessGuidance/
- **Portfolio-based requirements selection**
- **Integer linear programming**
- **PARSEQ**

Release definition
- **The art and science of software release planning**

Release validation
- **SCRUM (Sprint review)**
  http://scrumforteamsystem.com/ProcessGuidance/
- **Writing a business case (Cooper’s Star-gate)**
- **Requirements inspection**  

- **Requirements validation through viewpoint resolution**  

*Launch preparation*
- **Launch preparation according to Cooper**  

*Scope change management*
- **CHAMPS**  

- **ASL Change Management**  
  http://www.aslfoundation.org/