

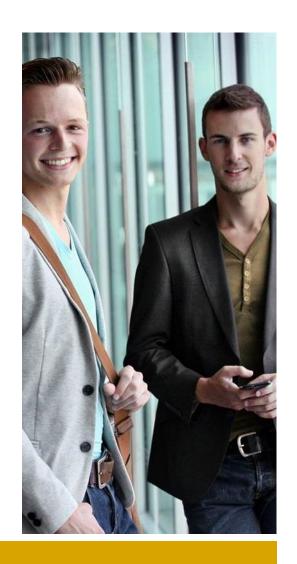
Harmonising Curriculum





Dutch University System (Applied Science)

- Every Bachelor degree has a national profile witch include end terms and competences
- Every Bachelor study has his/her own local Professional Advisory Board
- National terms and competences are given local interpretation by this board and the educational staff





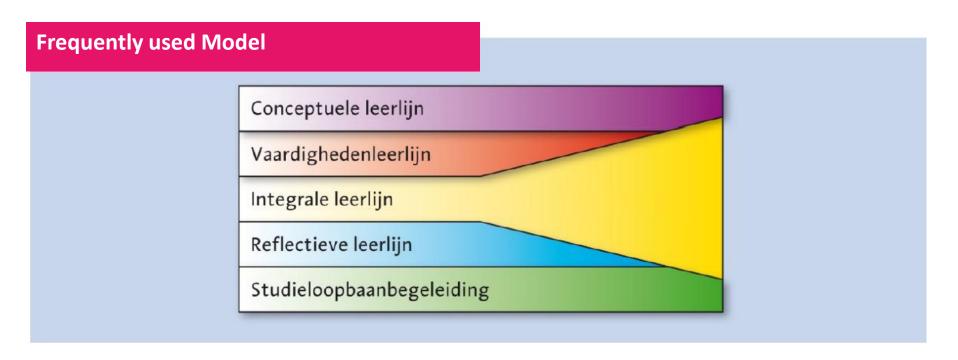
Dutch University System (Applied Science)

- Dutch of Applied Science are used to working with 'project oriented education'
- Based on Social constructivism
- 'Proper' education exists of working on useful assignments. To make these assignments different learning lines are distinguishable (Dick de Bie en Jos Kleijn)





Dutch University System (Applied Science)



Learninglines of de Bie



Educational Development

How

- Integral learning line as backbone
- From basic up to complex
- Developing an educational outline starts with the integral learning line

Pro

- More balance between different elements of the educational program
- More variation in working methods
- More structure for participants

Central process:

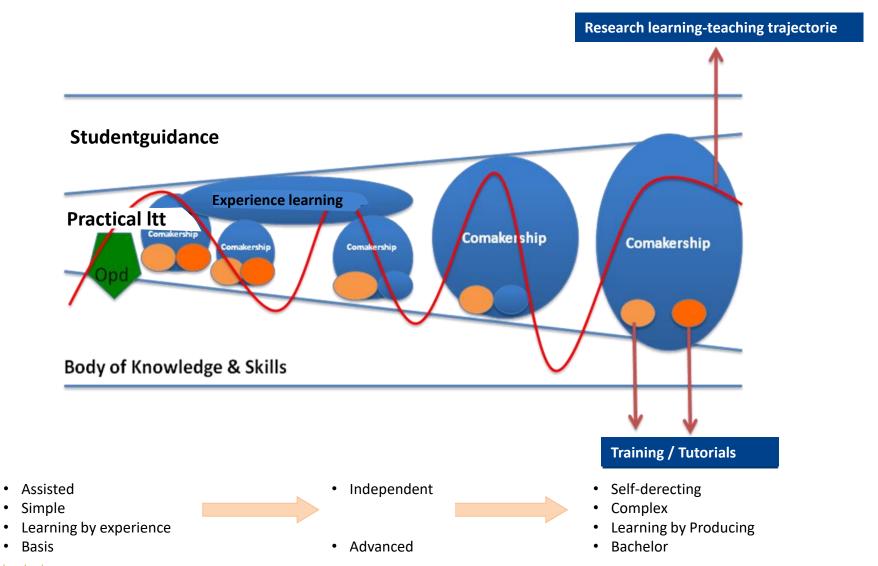
Not receiving information but convert or process information

Strength:

Students develop competences via different learning activities



Our Educational Model





Integral Learning line vs Comakership

Integral learning line

- Making a professional product or deliver a service
- Complex, professional, genuine, lifelike and recognizable

Comakership

- Produce / creation of a professional product
- External business client with real current request
- Unique assignment per project group of 1 to 5 students
- Project based assignment with 20 weeks duration
- Students are working at the location of their Comaker company
- Accompanying educational courses (Body of Knowledge & Skills)
- Knowledge transferal between teacher, student and organization

Practical learning



Professional environment

Internship

Comakership

Free choice of business client per project group

Practicum external

Project external

Controlled External environment

Experience learning

Practicum inside
/ simulation
integrated

Project inside / simulation

Produce / creational learning

Controlled internal integrated environment

Practicum inside / Module specific.

Project inside / Case

Module specific Practical education

Within the university



Facilitating Comakership

acquiring assignment

Conditions known

- Learning outcome
- Competences
- Results
- Work arrangements

Obtaining Comakership

- Student finds
- Student applies
- University Facilitates

Examination comity approves

- More than one teacher
- Check on content of the assignment
- Contract with organisation





Facilitating Comakership people involved

External:

- Commissioning company
- Supervisor / coach of company

Internal Teacher roles:

- Coach
- Assessor
- Lecturer / professional knowledge





Facilitating Comakership 20 week process

- Backbone of Comakership
- Content of assignments differ
- Process of every Comakership is equal
- Defined by every education
- Based on project management used in profession
- Next to professional products, students also deliver process documentation





Process Example Comakership





Process Example Comakership

Kort Proces Overzicht		
Week nr.	Actie	Verantwoordelijk
Week 0:	eerste contact opleiding met bedrijf, definitie opdracht,	Coach (beoordelaar 1) Assessor (beoordelaar 2)
Week 1:	Kick off	Coach & betrokken vakdocenten
Week 2-4:	Projectplan+Feedback projectplan	Studenten & Coach
Week 2-18:	Twee wekelijks een voortgangsrapportage	Studenten
Week 7:	Deelproducten	Studenten
Week 9:	Peer review + Feedback coach	Studenten, Coach en evt. Assessoren
Week 10 :	Tentamenweek	Studenten
Week 12:	Herkansing deelproducten	Studenten
Week 14:	Feedback	Coach en evt. Assessoren
Week 17:	Deadline eindproducten + reflectie & betoog student + advies coach + advies praktijkbegeleider	Studenten, Coach, Praktijkbegeleider
Week 18/19:	Eindpresentatie aanwezig coach, assessoren, Praktijkbegeleider	Studenten, Coach, Assessoren, Praktijkbegeleider
Week 18/19:	Assessment individuele student	Assessoren en evt. student
Week 20:	Tentamenweek	Studenten
Week21:	Inleveren cijfers Comakerships	Assessoren







Knowledge & Skills

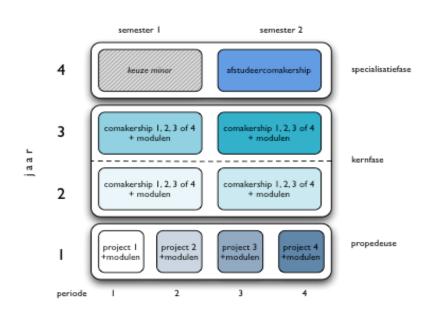
- Information Technology
- Business Knowledge
- Communication

Method

Comakership

Programme

- 1st Year
- Core fase
- Specialisation





1st Year

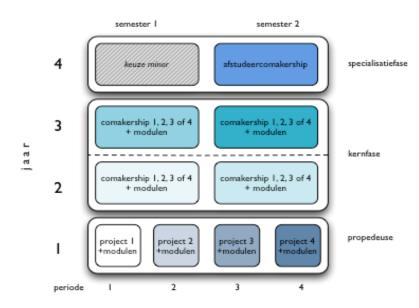
Basic Knowledge, Skills and Behavior

Core faze

Analyse & Model
Realise & Implement
Multimedia & Communication
Organisational Change & Advise

Specialisation

Knowledge- & Information management Research & Development





First Year: Basic Knowledge, Skills and Behaviour

Basic Project management:

Projects; in groups and individual Lectures
Tutorials

Basic Behaviour:

Workshops personal skills
Workshops projectmanagement
Personal development & Coaching

Basic Knowlege & Skills:

Lectures and Tutorials about:
Business Knowledge
IT
Communication
Research



Core Faze: Comakership Products

Co 1: Analize & Model
Requirements Research
Functional Design
Prototyping

Co 3: Multimedia & Communication
Communications Research
Multimedia Application

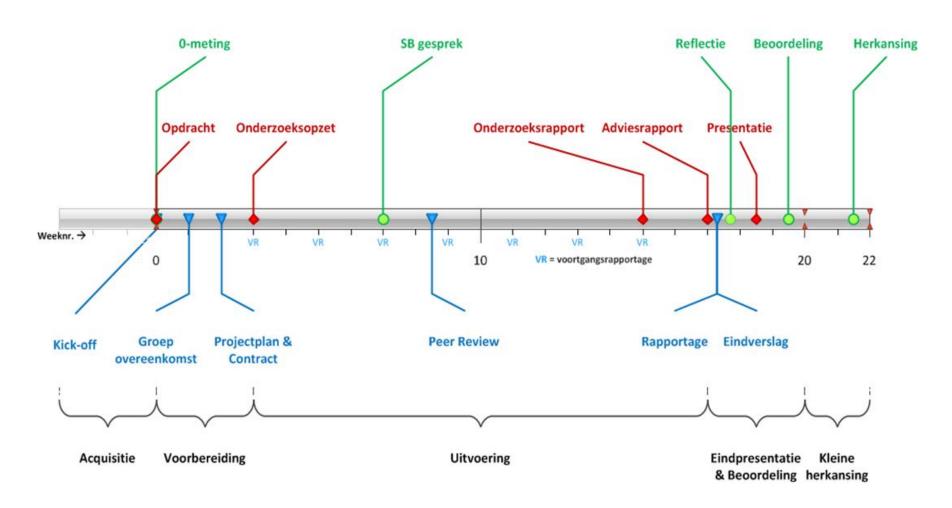
Co 2: Realise & Implement
Technical Design
Object Oriented Application
Implementation Plan

Co 4: Organisational Change & Advise

Research of Business processes Advisory Report



Core Faze: Comakership Process





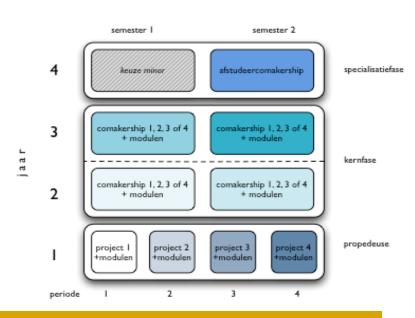
Core Faze: Rules of Engagement

Every Comakership Different Team
Every Comakership Different Company
Every Comakership Different Role in project team

Negotiate about own reward Find Suitable Comakership Assignment

Accompanying educational courses Apply learned theory's and Skills

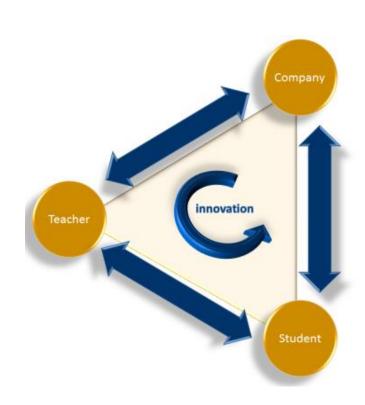
Weekly meeting with teacher coach Weekly meeting with company coach





Core Faze: Skills Stimulated

- Project Management
- Teamwork
- Independence
- Autonomy
- Result orientation
- Problem solving ability
- Researching skills
- Negotiation skills
- Commercial & assertive skills
- Entrepreneurial skills
- Creativity











Definition Learning lines

Experience & Reflection Learning line

- Professional activities in a real organisation
- Practice professional skills
- Reflection on this practice to learn

Integral learning line

- Making a professional product or deliver a service
- Complex, professional, genuine, lifelike and recognizable

Conceptual learning line

- Knowledge transferal
- Different theories
- Student can take action according to these theories



Definition Learning lines

Student Guidance

- Development of competences and collecting information for core tasks and work processes
- Insight into self and way of learning

Skills line

- Combination of doing and getting feedback
- Targeted practice



Facilitating Comakership

- Education defines project theme, learning results, preconditions and deliverables
- Education approves assignments according to learning outcomes en learning possibilities
- Teacher finetunes assignment together with company supervisor
- Clear projectdefinition and results
- Student defines personal goals for this specific Comakership
- Students are responsible for find their own Comakership assignment





Facilitating Comakership

- Students are coached during Comakership by teacher and company supervisor
- Process is backbone of Comakership

