Problem Based Internship in Surveying and Planning Curricula

Sørensen, Esben Munk; Enemark, Stig

Published in:
Shaping the change

Publication date:
2006

Document Version
Publisher's PDF, also known as Version of record

Link to publication from Aalborg University

Citation for published version (APA):
Problem Based Internship in Surveying and Planning Curricula

Esben Munk Sørensen and Stig Enemark, Denmark

Aalborg University Learning Principles

School of Surveying and Planning

The only University in Denmark for Cadastral Surveyors – 30 Masters yearly.

Aalborg University Learning Principles
Inspiration for internship as a study element

- Inspiration from graduate engineers from the AAU.
- Here it has, for a number of years, been possible to carry through an internship.
- The internship has contributed to disseminate the knowledge of the graduate engineers from the AAU.
- It has also given the students a good insight into the work tasks and development needs of the enterprises.

Innovation

- The internship semester has not been established to recreate the "apprenticeship".
- It is an explicit purpose to create a platform for closer inter-play between practice, research and education.
- When the students have finished the first year on their Master programme they are well equipped with the latest knowledge within the single research based teaching fields.
- After this, they will have a good basis for developing their ability in an internship course to understand and work up problems from the real working life.
- And with this foundation the contents of the final projects are supposed to be marked by the insight that the students have obtained into the development wishes of the enterprises.
- The students combine their own theoretical skills and in this way create not only theoretical solutions in their projects, but also create solutions that can be used. A modern work for this is innovation.

The first class

1. Internship site
2. Project subject

- The Secretariat for the Agricultural Commission in Northern Jutland
- An investigation of the Secretariat’s consultancy for applicants and instructions for the Agricultural Commission.
- The Municipality of Aalborg, Technical Services Centre
- Preservative neighbourhood planning in Hasseris.
- The Secretariat for the Agricultural Commission in the County of Southern Jutland
- The single case management of the Act of Agriculture.
- Sven Allan Jensen's Urban Planning Practice
- Environmental impact assessment of neighbourhood and municipal development plans.
- Private company: Chartered Surveyors, Slagelse
- Surveying consultancy and the Act of Agriculture.
- COWI A/S international consulting group. Aalborg Dept.
- Development and implementation of the InternetGISmap server for use in COWI.
- The Chartered Surveyor's firm Søren Lange, Aalborg
- Environmental impact assessment of neighbourhood plans.
- The Municipality of Egtved
- Strategic local planning.
- Ministry of Agriculture, Land Consolidation Office in Tønder
- Evaluation of property pilot studies.
- The Chartered Surveyor’s firm Nellemann & Bjørnæhr.
- Field control of laserscanning data.
- The Chartered Surveyor’s firm Hvenegaard A/S
- System 2000 in the cadastral case preparation.
- The Municipality of Frydendal
Lesson Learned.

- The students
  - found themselves well qualified for the internship and meet the professional tasks and challenges in the internship,
  - were able to follow and take part in the daily work in the companies and offices,
  - felt that they have to be very motivated to go through an internship,
  - felt it was necessary to devote oneself to the internship,
  - had to mobilize personal resources.
- For several of the students they felt very well prepared for doing the studywork in the thesis.
- It was very fascinating to realize that they were able personally to meet the challenges as individuals – without the security in the group work known from the university.
- The students have to be aware of using the possibilities at the concrete firm, company or office.
- For many days in the internship it was long days with hard work and very often it was necessary to be at the office also in the nights.
- Following Summer all – except 2 – got a job before defending the master thesis.