New education in land administration and surveying

Arve Leiknes
Assistant professor

Bergen University College

From a 1 year course to the only complete bachelor in land administration and surveying in Norway

"Land surveying and property design"
Education in Geomatics in Norway

- Norwegian University of science and technology
  - Master in Geomatics
- Norwegian University of Life Sciences
  - Master/Bachelor in Geomatics
  - Master in Land administration
  - Master in Land use planning

Education in Geomatics in Norway II

- University of Oslo
  - Master/Bachelor in Geomatics
- Gjøvik University College
  - Bachelor in Geomatics
- Bergen University College
  - Bachelor in Land administration and surveying
Original aim of the education in Bergen

- To educate technical staff to the Land Consolidation Courts
  - 1. year course in land surveying in Stend agricultural school from 1957
  - 2 years education from 1980
  - 2 years education in Bergen University college from 1993

Mercedes in the hedge – a typical situation in the Norwegian countryside?
Land consolidation

Study programme – main contents

• Land use planning
• Land management
• GIS
• Land surveying

We educate cadastral surveyors
### 1. Year

- Introduction to GIS 10 credits
- Public Law 10 credits
- Mathematics 10 credits
- Land surveying 10 credits
- Economics and Resource Management 10 credits
- Land Management I 10 credits

### 2. Year

- Land Management II 10 credits
- Geographic Information systems 10 credits
- Cadastral surveying 10 credits
- Public Law II 10 credits
- Basic Road- and Land use planning 10 credits
- Optional courses 10 credits
3. Year

- Land Management III 10 credits
- Geographic Information systems 10 credits
- Engineering surveys 10 credits
- Thesis 20 credits
- Optional courses 10 credits

Optional courses I

- Industrial surveying 5 credits
- Laser scanning and 3D-GIS 5 credits
- Construction Technology 5 credits
### Optional courses II

- Industrial surveying: 5 credits
- Laser scanning and 3D-GIS: 5 credits
- Construction Technology: 5 credits
- Land Consolidation and Land Tenure in Foreign Countries: 5 credits
- Dispute resolution and negotiation: 5 credits
- Land use planning: 10 credits
- Land registration and Cadastral surveying: 5 credits

### Optional courses III

- Industrial surveying: 5 credits
- Laser scanning and 3D-GIS: 5 credits
- Construction Technology: 5 credits
- Land Consolidation and Land Tenure in Foreign Countries: 5 credits
- Dispute resolution and negotiation: 5 credits
- Land use planning: 10 credits
- Innovation and Entrepreneurship: 5 credits
- English – language: 5 credits
- Spanish – language: 5 credits
3. term – Cadastral practice

In the coastal zone
### Number of students

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Further development at Bergen University College

- Offering short follow-up studies
  - Courses from 5 to 20 ECTS

- Masters? – in cooperation with
  - University of Bergen
  - University of Life Sciences (UMB-ÅS)
  - Aalborg university

Employers

- Municipalities
- Public roads
- Land consolidation courts
- Surveying companies
- Construction groups
- Property developers
- GIS
The end

Thank you for your attention