New education in land administration and surveying

> Arve Leiknes Assistant professor

Bergen University College



New education in land administration and surveying

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

CULTURE

COMPETENCE



- 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

COMPETENCE 🧹 CULTURE

Bachelor in Land administration and surveying



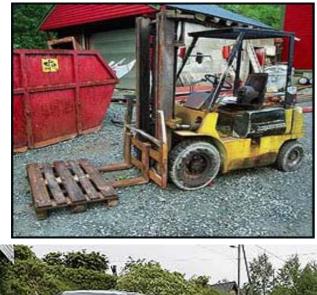
Original aim of the education in Bergen

- 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

CULTURE 📶



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





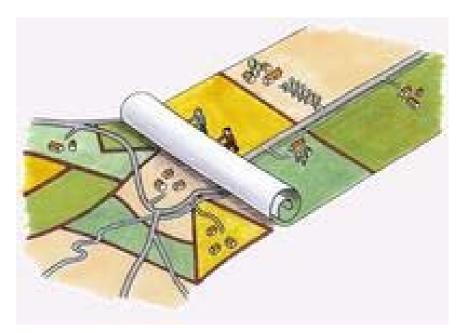






Land consolidation





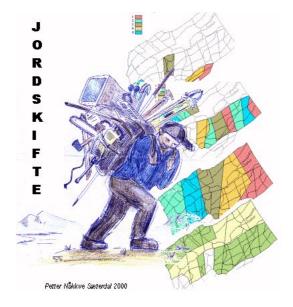




Study programme – main contents

- Land use planning
- Land management
- GIS
- Land surveying

COMPETENCE 📶 CULTURE 📶



We educate cadastral surveyors

PROFESSION



1. Year

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

COMPETENCE 📶 CULTURE 📶 PROFESSION

10 credits10 credits10 credits10 credits10 credits

10 credits
10 credits



2. Year

- Land Management II
- Geographic Information systems I
- Cadastral surveying
- Public Law II
- Basic Road- and Land use planning
- Optional courses

10 credits

10 credits
10 credits
10 credits

10 credits 10 credits



3. Year

- Land Management III
- Geographic Information systems II
- Engineering surveys
- Thesis
- Optional courses

10 credits

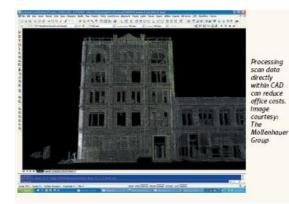
10 credits10 credits20 credits10 credits



Optional courses I

- Industrial surveying
- Laser scanning and 3D-GIS
- Construction Technology





5 credits5 credits5 credits







Optional courses II

- Industrial surveying
- Laser scanning and 3D-GIS
- Construction Technology
- Land Consolidation and Land Tenure in Foreign Countries
- Dispute resolution and negotiation
- Land use planning

COMPETENCE 📶 CULTURE 📶





PROFESSION

5 credits 5 credits 5 credits

5 credits 5 credits 10 credits





BERGEN UNIVERSITY COLLEGE

Optional courses III

- Industrial surveying
- Laser scanning and 3D-GIS
- Construction Technology
- Land Consolidation and Land Tenure in Foreign Countries
- Dispute resolution and negotiation
- Land use planning
- Innovation and Entrepreneurship
- English language
- Spanish language

5 credits 5 credits 5 credits 5 credits 5 credits 10 credi 5 credits 5 credits 5 credits



3. term – Cadastral practice



In the coastal zone





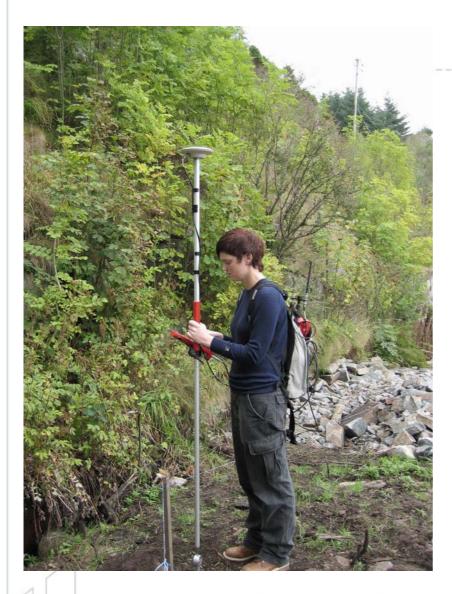


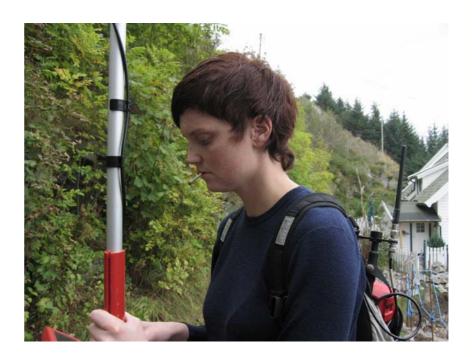
















Number of students

	Applicants	Admitted
2002	22	22
2003	25	25
2004	32	32
2005	36	36

2006	70	39	
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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

CULTURE 🤞



Employers

- Municipalities
- Public roads





Geo Survey AS Millevisst siden 195





- Land consolidation courts
- Surveying companies
- Construction groups * mesta
- Property developers





SKANSKA





The end

Thank you for your attention

