International Trends in Surveying Education

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The Global Challenges

- Technology development
  - GPS, GIS, Internet
- Micro-economic reform
  - privatization, decentralization, downsizing, quality assurance
- Globalization
  - from local to global
  - events in one part of the world impact on people in other parts of the world
- Sustainable development
  - developments that effectively incorporate economic, social and environmental concerns in decision-making
  - meet the needs of the present without compromising the ability of future generations to meet their own needs

Yesterday, Today and Tomorrow

- Management Skills - versus specialist skills
  from traditional technical skills and push button technologies
to interpretation and management of data meeting the needs of the clients
- Project Organised Education - versus subject based
  from traditional technical skills (knowing how)
  to management and problem solving skills (knowing why)
  focus on "learning to learn"

...International Trends in Surveying Education

- Virtual Academy - versus classroom lecture courses
  from traditional on-campus activities
to a more open role of serving the profession and the society
- Lifelong Learning - versus vocational training
  from learning to live
  through university graduation
to lifelong learning
  through CPD-strategies and distance learning

A Managerial and Interdisciplinary Approach
The Educational Profile

Enhancing Professional Competence

Educational Profiles

Pedagogical Models

Recommendations

- Understanding the diversity
  - Basis for revising and enhancing the programs

- A Multidisciplinary Approach

- Four or Five Year Course
  - Minimum requirement

- Understanding of Mutual Recognition
  - Basis for improving mobility

Learning to Learn

- Professional and technical skills can be acquired and updated later in one's career, while skills for problem solving and skills for learning to learn can only be established through the process of academic training at the universities.
The only Constant is change

Project-organised Education

Taught courses assisted by actual practice is replaced by project-work assisted by courses.

From description and analysing to synthesising and assessment.

Group Work

Problem-based Education

Textbook-knowledge is replaced by the necessary knowledge to solve theoretical problems.

From understanding of common knowledge to ability to develop new knowledge.

Problem Solving Process

Key Philosophy

Tell me and I will forget
Show me and I will remember
Involve me and I will understand
Step back and I will act

*Chinese proverb*
Flexibility and Adaptability

- The adaptability of each term
- The adaptability of the curriculum
- The adaptability of the graduates

Promotion

Enrolment and Graduation

Virtual Academy and Knowledge Management

... A Lifelong Learning Perspective

Challenges of the future

- Facilitate mobility
  - Initiating and implementing policies of Mutual Recognition
- Facilitate sharing of knowledge and learning
  - Local as well as global level
- Establish international learning environments
  - Local as well as global level
- Reengineering university concepts
  - Virtual Academy, Knowledge Management
At the edge of the map

Facing the new world