Vienna University of Technology

E-learning

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Vienna University of Technology - history

• December 1814: J. J. Prechtl is named as director of the Technical Institute
• November 1815: Teaching begins with 3 professors and 47 students
• October 1865: Imperial approval of the new Organisational Statutes with a "rectorial constitution" and establishment of a general department and 4 specialised schools (Road and water-way engineering, Construction engineering, Mechanical engineering and Technical Chemistry).
• University law 2002
Vienna University of Technology at present

**Faculties:**
- Faculty of Architecture and Regional Planning
- Faculty of Civil Engineering
- Faculty of Mechanical and Industrial Engineering
- Faculty of Electrical Engineering and Information Technology
- Faculty of Mathematics and Geoinformation
- Faculty of Physics
- Faculty of Chemistry
- Faculty of Informatics

**Staff:**
- 419 (28) Professors,
- 520 (114) Associate and Assistant Professors,
- 2,077 (335) Lecturers and other scientific personnel,
- 1,062 (500) All other personnel

**Students:**
- 15,287 undergraduate students (2,961 foreigners)
- 1,253 doctoral students (713 foreigners)
University Extension Centre (Außeninstitut)

Organisational structure (since 2004):

• **e-Learning Centre** (origin in “continuing engineering education” which was established at University Extension Centre in 1979)

• **Technology transfer** (origin in 1987)

• **International relations** (origin in 1989)

• **EU research management** (origin in 1989)
Participation of University Extension Centre in international programs:

TEMPUS program
• since 1990
• partner in more than 20 projects
• contractor / coordinator in 12 projects

Other programs
• SOCRATES
• Leonardo da Vinci
• other
E-Learning Centre

Established: as a special organisational unit in 2004

Head: Dr. Franz Reichl

Tasks: - **Information activities** - development of an Internet portal for dissemination of information, organisation of information events at TU Wien, for example eLearning-days, etc.).
- **Co-ordination und networking** of e-learning activities at TU Wien
- **Initiation of projects** aimed at implementation of eLearning-elements into the regular education

Web: [http://www.elearning.tuwien.ac.at](http://www.elearning.tuwien.ac.at)
e-Learning / e-Teaching Applications

- **iChemLab**, an Internet-based laboratory information and management system for the performance of practical training in chemical education. The database of iChemLab contains over 400 detailed instructions for laboratory practice.

- **the Virtual Campus** in architecture education MODULOR supports the regular education. It includes an education portal, media database as well as groupware and courseware tools;

- **MobiLearn** contains complex communication components (e.g. mobile learning by PDAs). Interactive examples in combination with animations are an important part of MobiLearn;

- **Virtual Euro Laser Academy** (VirtuELA) offers learning software enabling calculation of parameters and simulation of the use laser technology in different applications.

- etc.
e-Learning courses (continuing education)

- An existing face-to-face course in the area of **Process management** (with high portion of inter-activity and project work) has been offered as **blended learning seminar with active tutoring**. The feedback from the participants showed that the course was very successful.

- under the financial support of the country Lower Austria, a pilot course "**Business plan for establishment of knowledge and technology based enterprises**" has been developed and organised; the developed teaching / learning materials were used both for the intensive seminar with interaction, face-to-face phases and active tutor support, as well as as a knowledge base for potential entrepreneurs.

- for the university course (continuing education) **ECODESIGN** have been developed and implemented innovative didactical models focuses on interaction (combination of Blended Learning with active learning support for the online-learning phases)
E-learning projects

- **FACILE - FACI**lilated open distance **L**earning for continuing **E**ngineering education (1998-2000, EU program Socrates/ODL): development and testing of different approaches supporting the learner in eLearning (structuring and form of teaching / learning materials, role of facilitator, active tutor, etc.)


- etc.

- **Spin-off company established in 2004**
Delta 3 - project

Partners:  - Vienna University of Technology,
          - University of Natural Resources and Applied Life Sciences, Vienna
          - Academy of Fine Arts Vienna

Duration:  2005 – 2007


Aims:  - electronic support of traditional courses through management tools and electronic educational materials by implementation of a e-Learning platform
        - special application solutions, use of specific tools contents (for the use of simulations, multimedia, databases, etc.)
        -use of e-self-assessment
More Information

http://www.ai.tuwien.ac.at/elearning/

Thank you for your attention

References:
F, Reichl: eLearning an der TU Wien. ZIDline No. 10, June 2004, ISSN 1605-475X