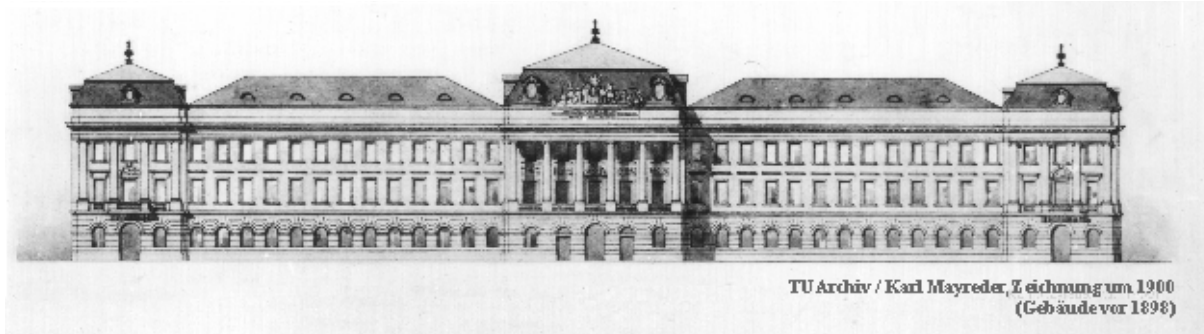


# Vienna University of Technology

## *E-learning*

*Peter Gabko*

*University Extension Centre of  
Vienna University of Technology*



## Vienna University of Technology - history

- December 1814: J. J. Prechtl is named as director of the 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)

## 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

**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>

- **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<sup>7</sup> 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 - FACIlitated open distance Learning for continuing Engineering 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.)
  - **ICETEL - Improving Continuing Education and Training through E-Learning (2002 – 2004, EU program eLearning-Initiative):** networking and dissemination of expertise in the area of the use of eLearning in the university continuing education ([www.ai.tuwien.ac.at/eucen/icetel.htm](http://www.ai.tuwien.ac.at/eucen/icetel.htm))
  - etc.
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- *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

**Program:** - *"Development and Implementation of E-learning /  
E e-teaching Strategies at Universities and Polytechnic  
Universities"* of the Austrian Federal Ministry for Education,  
Science and Culture

**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

J. Fröhlich, I. Herbst, F. Reichl: Delta 3 – ein interuniversitäres Projekt zur Entwicklung und Umsetzung von e-Learning-/e-Teaching-Strategien an den Partnerinstitutionen. ZIDline No. 13, December 2005, ISSN 1605-475X