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Poznan, Poland



**OPEN SOURCE
LEARNING MANAGEMNET SYSTEMS
AT CIVIL ENGINEERING AND ENVIRONMENTAL
DEPARTMENT:
TELECAD AND MOODLE**

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What will be all about ?

- **Why Open Source?**
- **TeleCAD – what is all about?**
- **What is CURE?**
- **Why moodle?**
- **Moodle in the European projects**
- **What have we got and what is missing ?**



Why Open Source?

Tested platforms

- **FirstClass**
- **Learning Space**
- **WebCT**
- **Oracle i-learning**

Problems with platforms listed above

- **Expensive!**
- **Hard to administrate**
- **Horrible hardware requirements**



TeleCAD – what is all about?

- **The TeleCAD project (Teleworkers Training for CAD Systems' Users, 1998-2001) was co-financed by European Union Leonardo da Vinci Programme and developed in the consortium of 6 institutions from four countries Greece, Finland, Italy, Poland.**
- **The main goals of the TeleCAD project were:**
 - **to develop an Internet based platform for the dedicated distance education course preparation and delivery,**
 - **to enable distance work for students, tutors and managers of distant courses.**



How the idea was born?

- **The idea of the course evolved from the AutoCAD course.**
- **The course has been delivered for students from Civil Engineering Department at Gdansk University of Technology since 1995.**
- **It covers basics of drawing using the AutoCAD program. During the course students prepare a series of drawings, at different levels of complication.**
- **For the final assessment students have to draw a project using all introduced techniques.**



TeleCAD – more details

- **Finally it was decided that the TeleCAD course should have been consisted of 10 modules covering basics of drawing in AutoCAD.**
- **Every module includes a set of tasks that should be done by students, with description of appropriate solution.**
- **The course materials were prepared as HTML pages to be acquired by the WWW or from the CD-ROM. Additionally the TeleCAD course incorporates a module about basics of teleworking.**
- **Students are supposed to prepare a project in groups. The final assignment of the course is a project which must be delivered by internal e-mail to the tutor.**
- **To prove that the student actually was an author of the drawing, he may be asked to make some changes to the project in the presence of the tutor.**

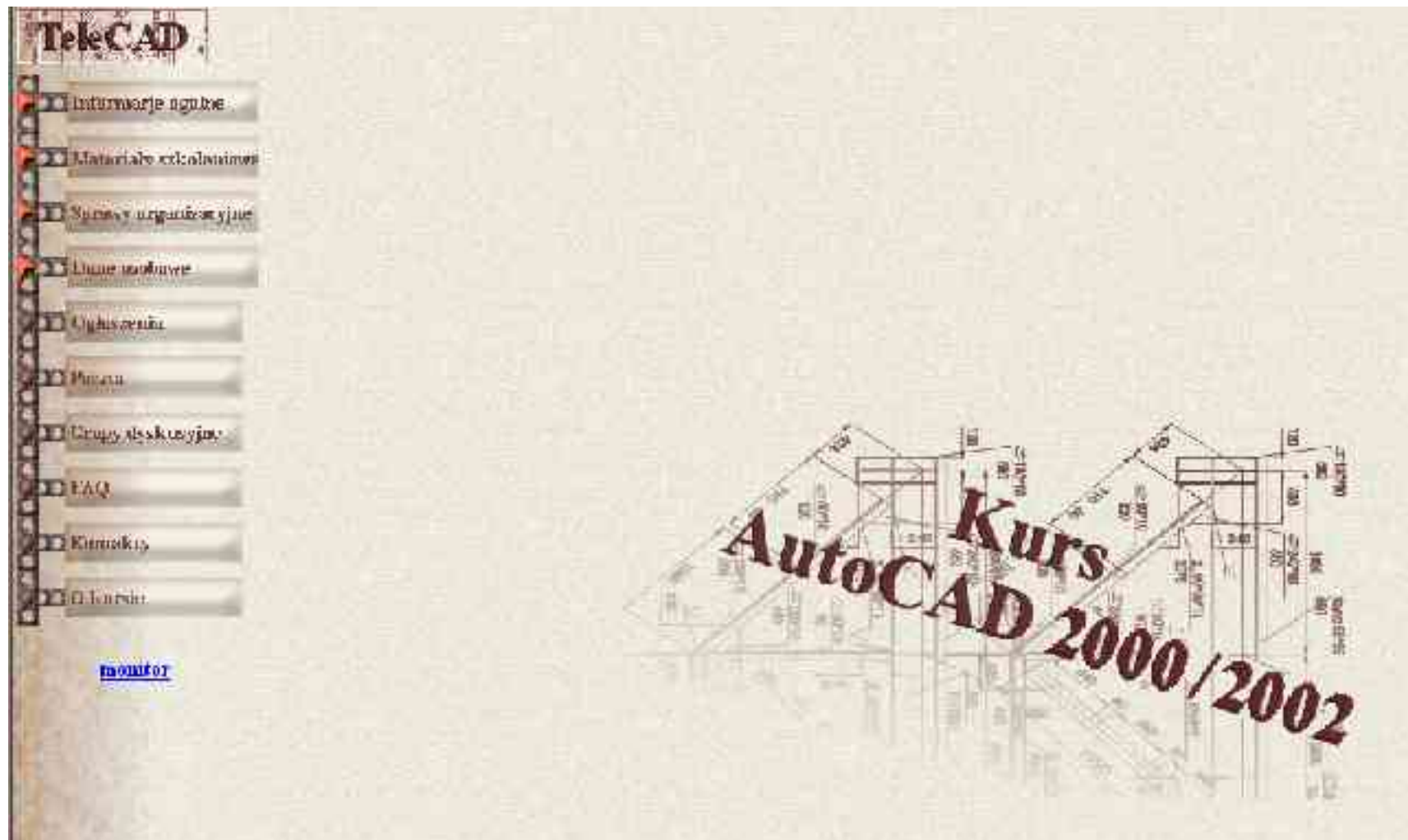


TeleCAD =LMS

Course Information	Requirements Timetable Staff Information Students list Announcements FAQ
Course Materials	Guide for learner AutoCAD handbook online Teleworking survey online Library of drawings Library of links
Assignments	Requirements, forms and deadlines for assessments Class book The quiz
Communication	Bulletin Board Discussion list E-mail



TeleCAD - interface





TeleCAD - usage

	Number of participants
<u>Pilot international 2000/2001</u>	89
<u>Pilot PL 2000/2001</u>	35
<u>TeleCAD exam - sem 2 - 2000/2001</u>	240
<u>TeleCAD exam - sem 4 - 2000/2001</u>	166
<u>TeleCAD extra mural sem 1 2000/2001</u>	62
<u>TeleCAD extra-mural - sem 3 - 2001/2002</u>	24
<u>TeleCAD extra-mural - sem 4 - 2001/2002</u>	40
<u>TeleCAD exam - sem 2 - 2001/2002</u>	259
<u>TeleCAD in summer 2002</u>	4
<u>TeleCAD exam - sem 3 - 2002</u>	64
<u>TeleCAD extra-mural - sem 3 - 2002</u>	39
<u>TeleCAD exam - sem 2 - 2003</u>	300
<u>TeleCAD extra-mural - sem 4 - 2003</u>	53
<u>TeleCAD post-graduate study - sem 1 - 2003/2004</u>	23
<u>TeleCAD in summer 2003,2004</u>	39



What is CURE?

- **A research project supported by the European Commission under the Fifth Framework Programme and contributing to the implementation of the Key Action 'The City of Tomorrow and Cultural Heritage' within Energy, Environment and Sustainable Development (EESD) - Contract No: EVK4-CT-2002-80005.**
- **The main objective of the CURE project (Centre for Urban Construction and Rehabilitation: Technology Transfer, Research and Education, 2002-2006) is to promote the aspects related to urban construction and rehabilitation by conducting technology transfer, research and education activities.**



CURE - objectives

- **One of the major objective of the CURE project is to teach the methods related to sustainable urban construction and rehabilitation, such as:**
 - **Advanced mechanics of urban structures.**
 - **Effective use of building materials.**
 - **Optimizing of constructing process.**
 - **Optimal urban land use planning .**
 - **Innovative building systems.**
 - **Rehabilitation of existing urban building stock.**

Among several innovative features which were planned to be introduced in the field of education the most challenging one was the extensive use of distance education (in English and Polish languages) based on modern information and communication technologies (ICT).



DECTUG in CURE

- **Distance Education Centre at Gdansk University of Technology (1997-2004), one of the European network enterprises was invited to join the project as a partner.**
- **Having a long term professional experience in the area of training based on Internet and multimedia it was planned to develop and deliver the distance education courses in the field of urban engineering within 2 work packages: WP1 - International PhD studies, WP2 - Postgraduate studies.**
- **In the CURE project the TeleCAD was chosen as the first LMS for supporting Postgraduate Studies (MSc).**
- **The upgrading handbook with CD ROM and online materials were developed.**



AutoCAD handbook CD/online

Książka z CD-ROM-em dostępna jest w księgarni Politechniki Gdańskiej



WERSJA POLSKA dla
AutoCAD PL

WERSJA POLSKA dla
AutoCAD EN

Oferta wydawnictwa
Mikom



Why moodle?

- After 4 years of usage and no money for upgrading TeleCAD system was not sufficient enough to fulfill new projects expectations.
- In order to find a solution several open source software had been tested before the final decision was made.
- As a result of experiments and tests Moodle was chosen as the most effective and user friendly solution.
- Moodle is a Course Management System (CMS) - a software package designed to help educators create quality online courses. Such e-learning systems are also called Learning Management Systems (LMS) or Virtual Learning Environments (VLE).
- One of the main advantages of Moodle over other systems is a strong grounding in social constructionist pedagogy.



Our first Moodle community support

Translation Moodle interface to polish was done by two students of Faculty of IT on Gdańsk University of Technology

Polish Translation

Maintainer: Poznan School of Banking (Wyższa Szkoła Bankowa w Poznaniu)

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Adam Pawełczak, Poznań, 2003-09-21



EMDEL project (Leonardo da Vinci, 2001-2004)

Serwis edukacyjny Moodle: Kursy

WCF - DIF - EducatioInnovare - EDBL - Exchange and Virtual Learning

Wybierz kursy: EDBL - Exchange and Virtual Learning

Are You Prepared to Work at Multipurpose Community Telecentres? Wstęp do nauczania na odległość (ang. Introducing into Distance Learning)

Are You Prepared to Work at Multipurpose Community Telecentres? Podstawa nauczania dorosłych (ang. Basic of Adult Learning)

Are You Prepared to Work at Multipurpose Community Telecentres? Jak komunikować się z innymi ludźmi (ang. How to Communicate with other People?)

Are You Prepared to Work at Multipurpose Community Telecentres? Wolontariat (ang. How to be an Effective Volunteer?)



CURE project (Research Framework Programme 5, 2002-2005)

Microsoft Edge - Wydział ILiS - Mirosław Tichonczuk Dąbrowski

Politechnika Gdańska - Platforma Moodle: Kursy

Moodle PG - Kategorie kursów - Wydział ILiS

Wydział ILiS

AutoCAD I - studenci PG kopij 1 Instrukcja Anna Grabowska	AutoCAD II - studenci PG kopij 1
Podstawy Informatyki WILiS - Zaoczne Inżynierskie Treści: Anna Grabowska Treści: Łukasz Stankiewicz	Kursy Informatyki WILiS - Zaoczne Inżynierskie
Podstawy Informatyki - dzienne magisterskie Treści: Anna Grabowska	Kursy Informatyki - Dienne magisterskie
Podstawy metod komputerowych - zaoczne magisterskie Instrukcja Anna Grabowska	Treści Informatyki WILiS - Zaoczne Inżynierskie
Obsługa programu Matlab Treści: Anna Grabowska	Obsługa programu Matlab - egzamin

Wydział ILiS - Wydział Inżynierii Łączności i Systemów Informatycznych
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CURE project (Research Framework Programme 5, 2002-2005)





Thanks to the EMDEL project the following courses were developed/adopted and opened for GUT students

- **Teleworking and AutoCAD**
- **Project Management**
- **Meeting of Generations – ICT for Adults**
- **Introducing into Distance Learning**
- **Basic of Adult Learning**
- **How to Communicate with other People?**
- **How to be an Effective Volunteer?**
- **What is a Multipurpose Community Telecentre?**
- **IT in Human Resource Management**



**Thanks to the CURE project the following courses
were developed/adopted and opened for GUT
students**

- **Ethics online**
- **Basics of Computer Methods,**
- **Contemporary architecture: creation and perception**
- **Basics of Programming in Matlab**
- **Problems of contemporary civil engineering, architecture,
town planning and transportation**
- **Steel Structures**
- **Industrial Engineering**
- **Structural Dynamics.**



What have we got and what is missing ?

- **After closing Distance Education Centre LMS Moodle was moved to several locations.**
- **The most active users are from Applied Physics and Mathematics, Architecture, Chemistry, Civil and Environmental Engineering and Electronics, Telecommunication and Informatics Faculties.**
- **It should be stressed that the majority of subjects are offering in a blended learning mode.**
- **Finally moodle has become LMS and project managemnet platform for EFS project.**





Thank you very much for your attention

Questions, comments, remarks

warmly welcome

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