

**EDUCATION CENTER OF COMPUTER AIDED DESIGN:
TECHNICAL UNIVERSITY OF BIALYSTOK, POLAND
- HOPES, POSSIBILITIES, LIMITATIONS.**

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**PROJECT OF PROFESSIONAL COMPUTER AIDED DESIGN EDUCATION
INSTITUTION OF LOCAL DOMAIN AT TU BIALYSTOK, POLAND.**

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There are about 20 architectural firms in Bialystok, but only five use computer aid in their work. AutoCAD is of course the most popular program - only one firm uses MegaCAD software.

In most examples work with computer is like stating the obvious - when you are a self-taught person.

Faculty of Architecture in Bialystok is the only school of architecture in the north-east region of Poland - and after updating the staff and the equipment would be able to produce about 10 persons professionally skilled in CAD. Unfortunately there is no possibility to teach (update) already working professional architects and other Computer users.

So - how to manage the new CAD education system in the desert of professional Computer education?

Last year, in Munich an idea of a basic link of the professional CAD education institution was conceived. Later idea was developed into a concrete project. Detailed material was sent to the Tempus Office in Brussels as a Joint European Project prepared together with TU Munich and TU Eindhoven.

The aim of the project is the establishment of a high quality CAD courses including under- and postgraduate Studies, short courses and possibility of tutor retraining in that part of Poland.

The Education Center of CAD will provide education and training for both - students of all all faculties of TU Bialystok, other institutions and individual computer users in that region.

See scheme 1

Now - only the branch relating to students is realised - as a part of curriculum in Faculty of Architecture. Scheme 2 shows the structure of CAD teaching in our CAD Laboratory - according to our possibilities.

Our intention and need is to create a course able to take up all branches of our tree from scheme 1.

Project mentioned above is based on a 3-year preliminary program - to prepare Education Center to be self sufficient.

YEAR 1 - is to prepare practical and methodical issues before formal establishing of Education Center:

1 . Training courses for the first group of Polish tutors - taught by German and Dutch specialists (at one of participating EEC universities and in Bialystok). Completion of equipment - hardware, software and other needed media. This phase is to: upgrade Polish tutors, to complete an equipment and preparing Polish staff to use it.

YEAR 2

1. Education Center for CAD starts with under-graduate, graduate Computer Aided Architectural Design courses for students of architecture - and Post-Graduate CAD Studies - as -in upgrading CAD course for professional computer users. Under-graduate courses taught by Polish staff.
2. Lectures - made by German and Dutch instructors with tutorial support of trained Polish tutors.
3. Further group of Polish tutors trained in EEC university.
4. Further completion of equipment.

YEAR 3

1. Education Center for CAD runs as before with Polish tutors teaching part of lectures.
2. Last group of Polish tutors trained.

3. With complete equipment and complete trained staff Education Center for CAD becomes self-sufficient.

General register of subjects to be taught:

- Introduction to CAD
- Fields of CAD use
- Overview of application software
- Computer Aided Architectural_Design
- Computer Aided Environmental and Urban Planning
- Computer Assisted Structural Analysis and Design
- Computers in renovation, remodelling, rebuilding
- Project visualisation
- Data Bases
- Marketing, Management, Finance

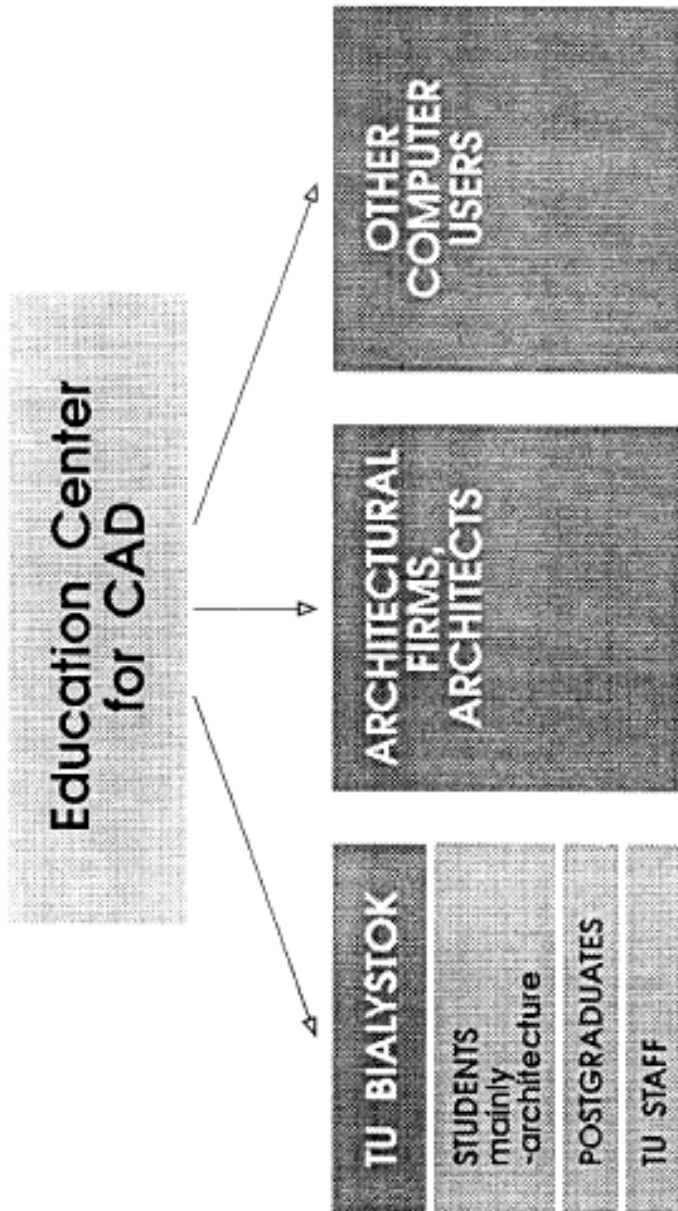
Scheme 3 shows proposed curriculum.

Number of hours for each subject - is the issue to fix when the project is accepted by Tempus.

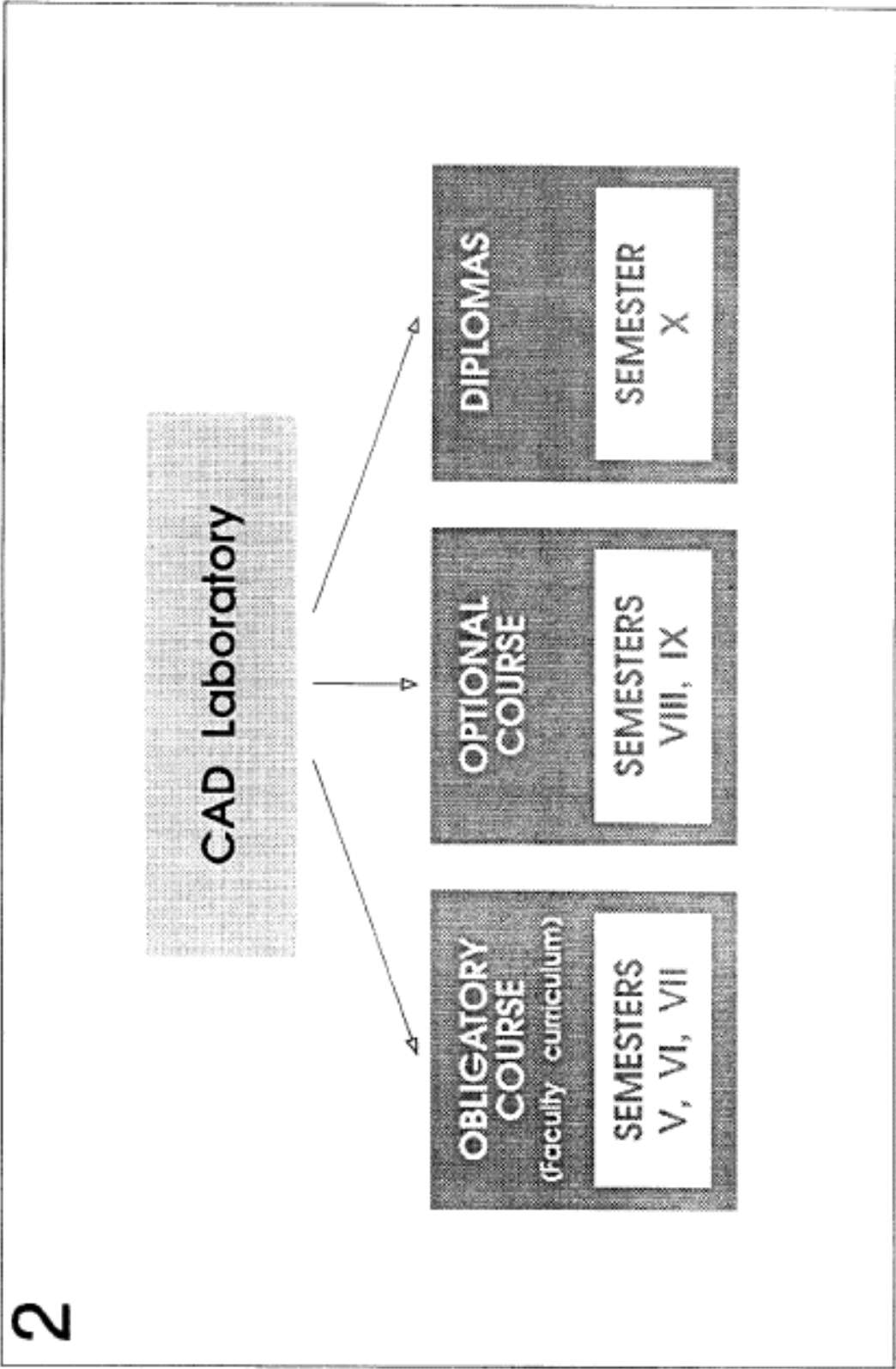
The result of the course - would be a Diploma in CAD confirmed by 3 universities.

This project (it will be possible to look into details) was the first ordeal of cooperation of Technical University of Bialystok, Technical University in Munich, Eindhoven University of Technology. Cooperation was very successful, the result is already known.

1



2



PROPOSED POST-GRADUATE COURSE CURRICULUM

September- -October	October-May	May-June	July
Introductory courses	Core subjects	Electives	Examinations
<ol style="list-style-type: none"> 1) Introduction to computers 2) Fields of use of Computer Aided Design 3) Overview of application software 	<ol style="list-style-type: none"> 1) Computer Aided Architectural Design 2) Computer Aided Environmental and Urban Planning 3) Computers in renovation, remodelling, rebuilding of buildings and urban spaces 4) Virtual Reality 	<p>According to participants needs:</p> <ol style="list-style-type: none"> 1) Marketing 2) Management 3) Finance 4) Computer Assisted Structural Analysis and Design 5) d-Base 	<p>Result: Diploma in CAD confirmed by 3 universities</p>

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