sggugs "Zdravko Cvetkovski" Vocational Education

"Integrating E-Learning and Open Educational Resources into Classroom" – iOERc

Decembar, 2015



СГГУ на Град Скопје "Здравко Цветковски"

- was established 1944
- first Macedonian-technical secondary school
- 1965 the school moved in a new building
- 10 000m², 45 classrooms and offices, workshops, laboratories, offices, meeting rooms, two gymnasiums, library, reading rooms, equipped with new technical devices
- reorganization and transformation in 2002/03, additionally high school
- 4th degree: general education, architectural technicians,
- construction technicians and surveying
- technicians, designer of interior architecture
- 3rd degree: Installers for dry construction and builder-facade makers.
- further training and specialization of certain teaching programs in the field of construction and architecture.
- The classes and the instructions are held on Macedonian and Albanian.

- post-secondary, specialized fields and professions:
- \checkmark , carpenter, painter
- ✓ armature constructer
- ✓ concrete and asphalt constructer
- ✓ constructing and ceramics specialist
- ✓ hydro- isolation and processing organizer
- ✓ technician for industrial building
- ✓ constructing calculator
- ✓ service technician for glass elements and ceilings
- At the moment run projects like:
- ✓ Knauf Junior Trophy
- Twinning project
- ✓ Education for peace with German NGOs
- Project for multhietnichal integration in the education with USAID
- ✓ multycultural workshops, co-operation with parents
- Project for integrated education "We are learning together"

Jasmina Aatanasova Simjanoska

- Expert teacher for architectural technicians and technical interior architecture designers.
- Architect designer, revisionist, supervisor, energy efficiency controller.
- Creative and innovative person with art and poetry affinities.
- Open minded, curious and ambitious person.
- Architecture International experience.

- Work experience in domestic and international companies.
- Expert teacher of 5 different specific subjects.
- Author of 4 specialized program me subjects for technical designers for interior architecture.
- Author of external test exams for 5 subjects and assessor of external exams for 12 specialized subjects of architectural technicians and technical designers for interior architecture.
- Project participant
- Participation in an inclusive teaching project.
- Participation in the project for introducing energy efficiency into education.
- Participation in a project for using IPA educational funds.



Our goals:

- To engage students in production processes related with building
- To train students to be able to work in building companies

- To engage students to work in design studio as a technicians
- To train students who will continue their education on compatible faculty

How to achieve the goals?

- Training in the use of computer technology for Microsoft Office programs
- Training for the use of programs for computer designing

• Training for skills to search webs related to architecture, civil engineering, interior design and furniture, geodesy, etc.

Graphic programs for computer designing







 Those programs are designed for architects, interior designers, construction technicians, geodesy technicians. For each of these vocations program has its own specifications, rarely used the same version



Start learning

- Start from scratch...
- How to draw a point, line, polyline, circle, rectangle?
- How to combine basic commands to draw a useful drawing?

- How to modify the drawing?
- How to implement a text, dimension lines, picture into drawing?
- How to use templates?

Drawing and modified tools





Ground floor









Facade





GRAPHISOFT. ARCHICAD











3D designing

GRAPHISOFT. ARCHICAD



Interior design (Archi CAD)





How to use ICT in teaching?

- My subjects are:
- building materials,
- building construction,
- Detail in architecture and interior,

- History of architecture and art to the XX century
- History of architecture and art of the XX and XXI century



Materials for building

- New daily material innovations possess improved performances. The teachers and students have to follow and use the advantages of those new performances.
- New design construction innovations allow building and constructing diverse forms with almost endless heights.

Cubic houses Rotterdam Netherlands





The highest building in the world, Burj Khalifa, Dubai









Researching for interior details:

- floors, ceilings, walls finishes, furniture design,
- attractive interiors revolution structures



History of art and architecture. Is it possible every single person to visit all world masterpieces?



Altemira, Spain (cave art)



Stonehenge, Great Britain





Kokino, Macedonia





Giza, Egypt



Semiramida gardens, Mesopotamia





Persian apadana



Crete, king Minos palace in Knossos





Mikena, Lion gate





Hellenic column style















Roma, Coliseum



Early Christian period, catacombs





Byzantium architecture, Aja Sofia



Romanic architecture, Pisa, Italy





Gothic interior, Notre Dame, Paris



Renaissance art, Leonardo da Vinci



Baroque, Saint Peter, Roma



Art styles in XX century

- Neoclassicism
- Neoromantism
- Realism
- Impressionism
- Expressionism
- Pointillism
- Cubism
- Pop-art
- Op- art (optical art)
- Naive art



New styles in architecture, XX & XXI century

- Jugend style
- Secesia
- Bauhaus
- Chicago style arch.
- International style (modern architecture)
- Postmodern style

- Interiors and decoration style
- Organic architecture
- Green architecture



Conclusion:

The way to accomplish the education goals is ICT!