Development of higher education qualifications standards and study programmes on the basis of CROQF for wood industry sector

13th InnovaWood General Assembly
10-11th June 2015, Zagreb, Croatia.

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Project description

- **Faculty of Forestry, Wood Technology Section was project holder and the main beneficiary**

- Partners were:
  - Biotechnical Faculty of University in Ljubljana (Slovenia)
  - Croatian Chamber of Forestry and Wood Technology Engineers
  - University Computing Centre (SRCE)

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb - Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Project description

- Project was cofinanced by European Union from European Social Fund
- Total project budget was 451.364,84 EUR
- Duration of the project was 18 month (from August 2013 to February 2015)
Location of project activities

- Activities were maintained at:
  - Project headquarters – Faculty of Forestry, Wood Technology Section
  - 3 additional Counties:
    » Vukovar – Srijem County,
    » Virovitica – Podravina County
    » Lika – Senj County

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb–Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Project Team

- Project Manager /Coordinator
- Executive Manager
- Project assistant
- 3 Team Leaders for QS
- Team Leader for procurement, installation and training
- Coordinator of Quality Committee
- 10 Coordinators and Coordinator assistants from 5 Departments
- Procurement administrator
- Office coordinator
- Partners coordinator for BSc
- Partners coordinator for MSc
- Partners coordinator for PhD
- Partners coordinator for Labour market
- Partners coordinator for e-learning
- 2 e-learning Trainers

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb - Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Project objectives

Improve higher education for better qualifications and employability in the wood industry sector.
Developed by higher education qualifications standards and study programmes on the basis of CROQF for wood industry sector
Cofinanced by European Union from European Social Fund

Specific

- Development of Qualification Standards
- Networking key competences (digital and entrepreneurial)
- Promotion of lifelong learning
- Education process improvement of implementing active learning
- Training of academic staff
- Dissemination of information about the introduction of the CROQF

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb – Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Methods - activities
Methods - activities

**Activity 1.** Analysis and Development of learning outcomes and Qualification Standards

**Activity 2.** Adjustment of existing study programmes based on proper use of learning outcomes, ECTS and student workload

**Activity 3.** Training of academic staff for development and enhancement of student’s entrepreneurial competencies and development of new practical course for students

**Activity 4.** Training of academic staff in student centred learning and development of e-learning courses

**Activity 5.** Evaluation, Dissemination and producing promotion materials
University of Zagreb
Faculty of Forestry

Development of higher education qualifications standards and study programmes on the basis of CROQF for wood industry sector
Cofinanced by European Union from European Social Fund

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
University of Zagreb
Faculty of Forestry

Development of higher education qualifications standards and study programmes on the basis of CROQF for wood industry sector
Cofinanced by European Union from European Social Fund

"Investing in the future"

CROQF WORKSHOPS

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
University of Zagreb
Faculty of Forestry

Development of higher education qualifications standards and study programmes on the basis of CROQF for wood industry sector
Cofinanced by European Union from European Social Fund

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Analysis of wood technology study programmes in European countries

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Analysis of wood technology study programmes in European countries

Fachhochschule University of Applied Science, Kuhl Salzburg
Analysis of wood technology study programmes in European countries

Berufsakademie Dresden

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Workshops with wood technology experts’ and employers
Vinkovci (Vukovar– Srijem County)

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Workshops with wood technology experts’ and employers
Slatina (Virovitica– Podravina County)

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
**Workshops with wood technology experts’ and employers**

Otočac (Lika – Senj County)

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Workshops with wood technology experts’ and employers
Zagreb (Zagreb County)
Analysis and Development of learning outcomes and Qualification Standards
Adjustment of existing study programmes based on proper use of learning outcomes, ECTS and student workload

- Analyses of existing learning outcomes
- Development of courses based on proper use of learning outcomes, ECTS and student workload
- Adjustment of learning outcomes according to recommendations from labour market
WORKSHOPS ON ASSESSING STUDENT WORKLOAD

Development of higher education qualifications standards and study programmes on the basis of CROQF for wood industry sector
Cofinanced by European Union from European Social Fund

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Procurement of necessary equipment for adjustment of active learning
16 CAD work stations and Rotary viscometer
Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb - Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
CONSTRUCTION WORKS

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb - Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Procurement of necessary equipment for adjustment of active learning
CNC machine

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
TRAININGS FOR ACADEMIC STAFF
CNC machine

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb – Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
TRAININGS FOR ACADEMIC STAFF
Rotary viscometer

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb - Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Training of academic staff for development and enhancement of student’s entrepreneurial competencies, development of new practical course for students and Study visit

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
External training of academic staff in development of entrepreneurial competences

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb - Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
STUDY VISIT
Poznan, Poland

Development of higher education qualifications standards and study programmes on the basis of CROQF for wood industry sector
Cofinanced by European Union from European Social Fund

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb – Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Training of academic staff in student centred learning and development of e-learning courses
Training of academic staff in student centred learning

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Training of academic staff in student centred learning

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Trainings of academic staff in development of e-learning courses

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia

Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Trainings of academic staff in development of e-learning courses

University of Zagreb
Faculty of Forestry

Development of higher education qualifications standards and study programmes on the basis of CROQF for wood industry sector
Cofinanced by European Union from European Social Fund

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetosimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.
Evaluation, Dissemination and producing promotion materials

• Project management
• External evaluation of produced Qualification Standards
• Financial audit of the Action
• Producing promotion materials
• Dissemination workshops
MEASURABLE RESULTS

• Four proposals for qualification standards were developed: Bachelor of Wood Technology, Master of Wood Technology, Master in Wood Product Design and Doctor of Biotechnology, the field of Wood Technology.

• Guidelines for improving three related study programmes in line with the CroQF were developed.

• A practical classroom was equipped with modern CNC technology (a five-axial CNC machine was procured, together with 16 CAD computers and rotary viscometer).
MEASURABLE RESULTS

• Six teachers were trained in using the CNC machine.
• Eleven teachers were trained in networking entrepreneurial skills.
• Twelve teachers were trained in implementing active learning methods and critical thinking in tertiary level teaching.
• Ten teaching units were developed to implement active learning and ERR framework.
• Eight e-courses were developed and implemented.
MEASURABLE RESULTS

• Four qualification standards were prepared to be submitted to the CroQF register.

• A promotional video was published, together with a booklet on project results and activities.
For more information

- http://hko.sumfak.unizg.hr/ or type “IPA4 news” in your web search
- Project brochure

Beneficiary: University of Zagreb – Faculty of Forestry, Wood Technology Section, Svetošimunska 25, HR 10 000 Zagreb, Croatia
Partners:

The content of this publication is the sole responsibility of the University of Zagreb- Faculty of Forestry and does not necessarily reflect the opinion of the European Union.