QUESTE: Quality System of European Scientific and Technical Education Labellization and Scoring

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• European Network for Quality of Higher Engineering Education for industry

• created under European Council of Ministers of Industry recommendation on December 5, 2000 to promote:

  • Higher Engineering Education for industry:
    • European Excellency HEE institution for co-operation with industry
    • European mechanism of quality assessment of HEE for industry:
      Certification and measure of improvement steps

• as stated by the European Quality Charter launched on May 29, 2001
• assessed by European Evaluation system validated on November 22, 2002
• certification of the quality of educational process and measure of improvement steps
ENQHEEI Activities

1999: 1st pilot project of Leonardo programme:
- 7 States-members and 8 partners representing:
  - training institutions: ARMINES(F), VSNU(NL)
  - industry: TT-Conf of Finnish employers(FI), Chambers of Commerce and Industry: DIHT (DE), CSCIN (ES), Assefor Camere (IT), trade unions: Eurocadres (EU)
- The European Quality Charter of Higher Engineering Education for industry

1st French-Swedish Colloquium (Paris-May 2001)

- TU Helsinki; Polotecnico Milano; Blekinge IT; Ecole Mines St-Etienne; UPC

2nd Colloquium UPC-ENQHEEI (Barcelona-November 2002)
- Benchmarking of cooperation: Technology parks, internships, Quality assurance, technology transfer dual system...
- EU, candidate countries, national, Mediterranean Arch, Maghreb, etc.
European Quality Charter of Higher Engineering Education for Industry
The Quality Charter

- 1 - Knowledge and requirements of industry
- 2 - Lifelong Learning and continuous education
- 3 - Adequacy of response to requirements
- 4 - Entrepreneurship
- 5 - Beyond scientific and technical skills
- 6 - Co-operation with industry: design of programs and practical work-internship
- 7 - Mutual exchange of professionals of industry and teachers
- 8 - Scientific and technological innovations
- 9 - Quality assurance and external quality assessment
- 10 - Feedback from Industry
The Hague Initiative
December 10 2004

- **Participants:** France, The Netherlands, Sweden, Italy, Germany, Russia

- Promotion of Higher Engineering education Quality for industry
  - Stakeholders-oriented Improvement steps in pilot-institutions
  - Platform for dialog and exchanges of best practice between Higher Engineering Education institutions and industry

- The Lisbon Declaration strategy and EU competitiveness

- European Excellency label and *scoring*

- European Area of Education and Bergen Conference
Final Announcement
Luxemburg E.U. Presidency Echternach Symposium
June 27-28, 2005

The missions:
- to set up a platform of exchanges and co-operation between companies and higher education of technical managers and scientists as to be warrant of the required profiles,

- to constitute European working groups in main branches of industry to gather information available on the quality of the relationship/partnership between higher engineering education and companies

- to organize the assessment to deliver quality labels, to diffuse them and to proceed to a scoring of higher education institutions process.
Queste
Quality System of European Scientific and Technical Education
Labellization and scoring

Partners:

Participants: at the EU level or national level, Russia and TACIS countries
- Technological Universities association,
- Accreditation authorities or organisations
- stakeholders as professional bodies,
- trade unions
- students representatives.
QUESTE
Stakes

- Crossroad of:
  - the progress of Lisbon Strategy in order to build a competencies/abilities engineering process
  - the implementation of the Bologna process in higher education

- Double approach of: European industry companies and higher scientific and technical education institutions:
  - rapid evolution of the companies demand for junior technical managers and scientists at the three respective cycles (Bachelor, Master, Ph D),
  - yearning for a continuous adaptation of the qualifications required from technical managers and scientists with a double goal:
    - attractiveness of scientific and technical higher education institutions towards the best pupils and students
    - competencies diversification and abilities development with regard to the profiles required by the globalisation of economy
QUESTE

Goals

- promotion of quality of higher education of technical managers and scientists
- labellization of higher education for industry
- scoring of higher Scientific and Technical Education institutions process.

Launching of:
- a private independent European Agency
- EFEED - European Foundation for Engineering Education Development
Industry /Innovation-Research Label

Quality Charter Scoring

ACADEMIC

100
75
50
25
0

1 2 3 4

Quality Charter Scoring

HEE
Partnership with RAEE

- Support to ENQHEEI project
- Support to The Hague initiative
- Adoption of Echternach Declaration (June 28, 2005)

Partnership to QUESTE:
- 1-A) Elaboration of referentials and criteria in 4 main branches:
  - Civil Engineering
  - Mechanics and Materials
  - ICT
  - Chemical Engineering
- 1-B) Exchange of best practice of improvement steps methods
- 2- Developing an assessment methodology
- 3- Launching improvement steps in TPU and among pilot institutions in Russia
- 4- Having benefit of an accompanyment and coaching for improvement steps
- 4- Participation to the external Assessment and scoring
- 5- Sharing decision of labellisation
- 6- Diffusion of the Label results among Higher Scientific and Technical education and their networks in Russia and EECA.
Partnership with RAEE

Over the past years, the RAEE actively works on establishing the contacts with different constituencies: engineering societies and unions, industry representatives, employers federations in order to play a decisive role in training engineers in Russia.

The RAEE has the agreements with the following organizations:

- **Federal Service on Supervision in Higher Education and Science** (signed in February, 2005)
- **Chamber of Commerce and Industry of RF** (signed in December, 2004)
- **Academy of Engineering** (signed in 2005)
Partnership with RAEE

Participating in **QUESTE** the RAEE intends to cooperate with:

- Polytechnical Universities,
- Technical Universities,
- Industrial companies,
- Employers federations

for studying the industry requirements for the quality of specialists’ training
Thank You!!!