Community building and cross-border collaboration through online courses in wind energy

A new online course in wind energy has been developed by the Technical University of Denmark (DTU) as part of the EU-funded project Virtual Campus Hub (FP7 RI-283746, www.virtualcampushub.eu). The course builds upon a successful physical course, which has been offered to the wind energy industry for more than 20 years. The course objectives are:

1. To teach participants to use the Wind Atlas Analysis and Application Program (WAsP) – the wind power industry-standard PC-software for wind resource assessment and siting of wind turbines and wind farms, with more than 4,000 licenses sold in more than 100 countries.

2. To provide participants with enough theory about wind power meteorology to avoid the major pitfalls in wind resource assessment.

This paper describes the design and implementation of the online course in WAsP and the most important learning points gained from two test runs of the course. The course is then placed in the larger context of project Virtual Campus Hub where participants from four technical universities in Europe collaborate in a virtual framework utilizing state-of-the-art European E-infrastructure.

General information

State: Published
Organisations: Department of Wind Energy, Meteorology, Wind Energy Systems, Office for Study Programmes and Student Affairs, Expect Learning
Pages: 5096-5104
Online training in WAsP for wind energy professionals

An online course in wind energy resource assessment has been developed by the Technical University of Denmark (DTU). The course builds upon a successful physical course, which the Department of Wind Energy at DTU has offered to the wind energy industry for more than 20 years. The course objectives are:

1. To teach participants to use the Wind Atlas Analysis and Application Program (WAsP)
2. To provide participants with enough theory about wind power meteorology to avoid the major pitfalls related to wind resource assessment.

WAsP is the wind power industry-standard PC-software for wind resource assessment and siting of wind turbines and wind farms, with more than 4,000 licenses sold in more than 100 countries.

General information

State: Published
Organisations: Department of Wind Energy, Meteorology, Wind Energy Systems, Expect Learning
Number of pages: 4
Publication date: 2013
Virtual Campus Hub

Four technical universities in Europe work together in this EU-funded project to lower the barriers for collaboration across borders.

Universities have an increasing number of and increasingly diverse relations with the outside world but Information and Communications Technology (ICT) is still inward looking. Virtual Campus Hub aims to support a number of activities that are common today for international cooperation in the field of education, research and innovation.

Project partners:
Technical University of Denmark (DTU)
Kungliga Tekniska högskolan, Sweden (KTH)
Politecnico di Torino, Italy (Polito)
Eindhoven University of Technology, Netherlands (TU/e)

Department of Wind Energy
Meteorology
Aeroelastic Design
Wind Energy Systems

Office for Study Programmes and Student Affairs
Period: 01/10/2011 → 30/09/2013
Number of participants: 24
Acronym: VCH
Project participant:
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Andersen, Peter Bjørn (Intern)
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Relations
Activities:
E-learning activities at DTU Wind Energy
Virtual Campus Hub
Publications:
Dissemination and Exploitation Strategy
The Virtual Campus Hub Concept
Press / Media items:
Universiteterne mødes på nettet: E-system. Fire tekniske universiteter er forbundet via den europæiske e-infrastruktur eduGAIN.
International students get single sign-on for wind energy training: A Danish university avoids unnecessary hassles with user management by exchanging student data in an international identity federation.
Den europæiske internetstruktur Géant styrker universiteters samarbejde
Harnessing the power of wind with a learning platform
Project