



e-Learning in Electrical Engineering

Future Projects

with grant applications made
(or to be made)

EIE-Surveyor

Status : accepted (✓)

- Participation of the association to the « Thematic Networks » EIE-Surveyor :
Reference Point for Electrical and Information Engineering in Europe
- *More than 100 partners accros Europe*
- *Duration : 36 months*
- *Grant : +/- 500.000 €*

- **Task in which the association is implied:**
 - **Objective:** Implementation of quality assessment on some education resources in Electrical and Information Engineering (EIE)
 - **Expected output:** Mediatheque of pedagogical resources available in EIE, with a quality assessment

IULE

Status : application form to be filled (?)

- **New Socrates Minerva project:**
 - Application form to be filled for end of october 2005
 - Duration: 24 months
 - Beginning: october 2006
 - Grant : +/- 200.000 €
 - Main objective: to experiment Distance Learning using the tools of the e-LEE association



Inter University Learning in electrical Engineering

- **Task 1 : Multi-language aspect**

- To translate / to develop new resources in at least 3 new languages



+ the languages presently available



= 7 languages understandable in 11 (among 29) of the UE member states or candidate countries and more than 50% of their population

- **Task 2: Pedagogical Aspects**
 - To use the developed resources (or new ones) in order to organize distance learning program or «half distance learning program»
 - on advanced thematics ➡ power quality
 - for a limited number of selected students (brilliant and having a precise professional goal, i.e., according to previous study, the ones the more able to take advantage of available resources)
 - Open to life long learning students
 - course volume: about 1 ECTS

- **Task 2: Pedagogical Aspects**
 - Goal : to evaluate more precisely
 - the cost,
 - the needed organisation mode (are discussion forum, FAQ, email link with a tutor, videoconferences useful)
 - and the relative efficiency of such program compared to classical (face to face) learning system
 - especially in the context of scientific / technical teaching

- Possible partnership

– Task 1:

Task 2:



- ENS de Cachan

HEI, ENS de Cachan



- IST Lisboa

IST Lisboa



- Craiova

Craiova



- UGent, ULB, UCL (toolbox)

UCL, ULB



- Sophia



- Aachen

9 partners in 6 countries

GET

Status : application form to be filled (?)

- **« Fonds Francophone des Inforoutes »**
 - Main objective of the Fund: to propose contents in French on the Net / to promote the linguistic diversity
 - Main objective of our project : to develop new resources

- **In Electrical Engineering**
 - Electrical circuits ☞ **Task 3**
 - Electrical Machines (*synchronous and DC machines*) ☞ **Task 4**
 - Renewable energy ☞ **Task 5**
 - new but closed thematics : *electromagnetism in electrical machines / numerical simulation for example* ☞ **Task 6**

- + an approach towards mechanics world?
 - working on interface problem (*sensors for examples*)
 - Presentation of common problem / solutions (*finite element method, material characterization, energy transfers, optimization tools...*)  **Task 7**

Génie Electrique sur la Toile

- Application form to be filled for end of october 2005
 - Duration: 24 months
 - Beginning: may 2006?
 - Grant : +/- 200.000 €
- Other objective : To evaluate the use of such resources especially in south and eastern contries (privileged partners in in project call)  **Task 8**

- **Possible partnership**

- Task 3 : ECAM, UCL 
- Task 4 : Craiova, Centrale Lille  
- Task 5 : HEI, Cluj-Napoca
- Task 6 : ULB, ULg, Sophia 
- Task 7 : ENS de Cachan
- Task 8 : ENS de Cachan, ENSA Marrakech,  
Chisinau, Kinshasa (?)

12 partners in 8 countries (6 common with IULE)

– **Last possible action**

- to adapt the resources to the needs of technical teaching institutions: technical secondary schools in Romania, «Hautes Ecoles» in Belgium, IUT / BTS in France...
- ISIB?