

## CONTEXT OF THE PROJECT

Today, across Europe, work is in progress to align curricula with the **Bologna Agreement**. The aim of this realignment is to improve readability and comparability of degrees, **enhance and encourage the mobility of students and academic staff**, to facilitate the **recognition of qualifications across Europe**, and to **attract students from outside Europe**.

Some European Universities have already introduced new qualification programmes that conform to the Bologna-process. Others are either in the process of assessing the implications or are designing conforming programmes.

In parallel, European Commission programmes are encouraging HEIs to collaborate in the development of common or shared curricula and notably, at Masters level, to improve the emergence of international degrees and to strive for excellence under the framework of the ERASMUS MUNDUS programme.

In this context, EIE-Surveyor focuses on the fields of "Electrical and Information Engineering" (EIE) and its applications with a specific focus on the realignment issues.

The background to the project comprises in part, the results of the THEIERE project ([www.eaeeie.org/theiere](http://www.eaeeie.org/theiere)) during which an **observatory on the implementation of the Bologna process** in Europe, in Electrical and Information Engineering was established. The THEIERE project also considered the development and **proposition of pedagogical resources** in Electrical and Information Engineering with the aim of harmonising the curricula for Online Distance Learning (ODL) and life long learning processes.

Finally, this project has been proposed under the aegis of EAEEIE. The EAEEIE (<http://www.eaeeie.org>) is a European non profit organization, with members from nearly seventy European Universities, teaching in the field of Electrical and Information Engineering (EIE).

## OBJECTIVES OF EIE-SURVEYOR

- Reflection on generic competences and subject-specific competences in Electrical and Information Engineering (EIE), cooperation with the TUNING project,
- Reflection and proposition of a methodology for accreditation, in order to enhance comparability and common certification procedures,
- Implementation of quality assessment methodologies on some educational resources available in EIE,
- Proposition of a census of the existing curricula in EIE in Europe, the multinational degrees, and the situation of the implementation of the Bologna-process in EIE, at the bachelor, master and PhD levels.

## TARGET GROUPS

- Professional engineering associations, Life Long Learning institutions,
- Students, teachers (and responsible for mobility) and learners,
- Accreditation boards.

## MAIN ACTIVITIES

- Application of the TUNING methodology to EIE, to identify competences,
- Analysis of existing accreditation procedures, proposition of a methodology,
- Quality assessment of some resources in EIE available through internet,
- Observatory on the degrees available in EIE in Europe, and state of the implementation of the Bologna-process.

## OUTPUTS OF EIE-SURVEYOR

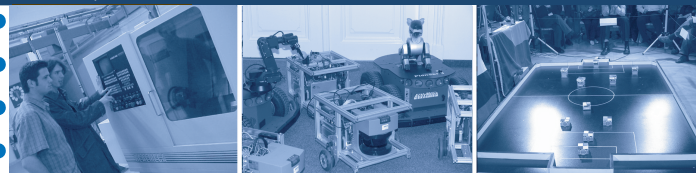
- Guidelines for contents as generic competences and subject-specific competences in EIE, implementing the TUNING methodology
- Census of existing accreditation procedures and accreditation methodologies,
- Quality assessment approach for selected pedagogical resources available in EIE.
- Monograph on the degrees and international degrees available across Europe, at the Bachelor, Master and Doctoral levels.

Some results are based on thousands of feedback questionnaires from HE institutions accross Europe.

All these outputs will be **available freely** on the EIE-Surveyor website, (Please go to <http://www.eie-surveyor.org/outcomes.htm>) in 2008.

[www.eie-surveyor.org](http://www.eie-surveyor.org) - [jean-marc.thiriet@ujf-grenoble.fr](mailto:jean-marc.thiriet@ujf-grenoble.fr) - [www.eaeeie.org](http://www.eaeeie.org)

## EIE - SURVEYOR



reference point for

**E**lectrical and **I**nformation **E**ngineering in Europe

**Funded by the European Union**  
**225997-CP-1-2005-1-FR-ERASMUS-TNPP**  
**October 2005 - September 2008**

**For any information and documentation :**

<http://www.eie-surveyor.org>  
[jean-marc.thiriet@ujf-grenoble.fr](mailto:jean-marc.thiriet@ujf-grenoble.fr)

**Coordinating institution:**

Université Henri Poincaré Nancy 1





- 1 Université Henri Poincaré Nancy 1 - FR
- 2 European Association for Education in Electrical and Information Engineering (EAEEIE) - EU
- 3 Board of European Students of Technology (BEST) - BG
- 4 Technische Universität Graz - AT
- 5 Fachhochschulstudienbetriebs GmbH, Standort Wels - AT
- 6 Karel de Grote Hogeschool Antwerpen - BE
- 7 Universiteit Gent - BE
- 8 Katholieke Hogeschool Sint-Lieven - BE
- 9 Haute École de la Province de Liège "Rennequin SUALEM" - BE
- 11 Русенски университет "Ангел Кънчев" (Rousse University "Angel Kanchev") - BG
- 12 Технически Университет - София (Technical University Sofia) - BG
- 15 Πανεπιστήμιο Κύπρου (University of Cyprus) - CY
- 16 Vysoké učení technické v Brně - CZ
- 17 Technická univerzita v Liberci - CZ
- 18 VŠB – Technická univerzita Ostrava - CZ
- 19 České vysoké učení technické v Praze - CZ
- 20 edaw, s.r.o. - CZ
- 21 MA&T Sell & Partner GmbH - DE
- 22 Technische Universität Ilmenau - DE
- 23 Fraunhofer-Institut Digitale Medientechnologie - DE
- 24 Deutsches Chapter IEEE Education society - DE
- 25 Universität Siegen, Institut für Regelungs- und Steuerungstechnik - DE
- 26 Universität Ulm - DE
- 27 Fachhochschule Würzburg-Schweinfurt - DE
- 29 Tallinna Tehnikaülikool - EE
- 30 Universitat de Barcelona - ES
- 31 Universitat Politècnica de Catalunya - ES
- 32 Universitat de Girona - ES
- 34 Universidad de Oviedo - ES
- 35 Universidad de Cantabria - ES
- 36 Universidad Politécnica de Valencia - ES
- 37 Universidade de Vigo - ES
- 38 Universidad de Zaragoza - ES
- 39 Lappeenranta teknillinen yliopisto – Sähkötekniikan osasto - FI
- 40 Oulun yliopisto - FI
- 41 Chapitre Education de la section française de IEEE - FR
- 42 Club EEA - FR
- 44 Université de Savoie – Ecole Supérieure d'Ingénieurs d'Annecy - FR
- 45 Université Bordeaux 1 - FR
- 46 Université de Bourgogne/IUT Le Creusot - FR
- 47 Ecole Nationale Supérieure des Arts et Métiers - FR
- 48 Ecole Nationale Supérieure de l'Electronique et de ses Applications - FR
- 49 Ecole Nationale Supérieure d'Ingénieurs du Mans - FR
- 50 Université des Sciences et Technologies de Lille - FR
- 51 Ecole des Hautes Etudes d'Ingénieur (membre de l'Université Catholique de Lille) - FR
- 52 Université Claude Bernard Lyon 1 - FR
- 53 Ecole Nationale Supérieure des Arts et Métiers - FR
- 54 POLYTECH/Montpellier - Université Montpellier II - FR
- 55 Institut Universitaire de Technologie d'Epinal, Université de Nancy 2 - FR
- 56 Université Pierre et Marie Curie - FR
- 57 Université de Perpignan - FR
- 58 Université de Rennes 1 - FR
- 59 Institut Supérieur des Techniques Avancées de Saint Etienne - FR
- 60 Institut National des Sciences Appliquées de Rouen - FR
- 61 Université P. Sabatier, Toulouse III - FR
- 62 Université Pierre Mendès-France, IUT Valence - FR
- 64 Τεχνολογικό Εκπαιδευτικό Ίδρυμα Καβάλας (Technological Educational Institution (TEI) of Kavala) - GR

- 65 Budapesti Műszaki és Gazdaságtudományi Egyetem, Elektronikai - HU
- 66 Budapesti Műszaki Főiskola - HU
- 67 Ollscoil Luimnigh (University of Limerick) - IE
- 68 Háskóli Íslands - IS
- 69 Università degli studi di Cagliari - IT
- 70 Università degli Studi di Genova – Dipartimento di Ingegneria Biofisica ed Elettronica (DIBE) - IT
- 71 Università degli Studi di Napoli Federico II - IT
- 72 Università degli Studi di Siena - IT
- 73 Politecnico di Torino - IT
- 74 Kauno technologijos universitetas - LT
- 75 Rīgas Tehniskā Universitāte - LV
- 76 University of Malta - MT
- 77 Technische Universiteit Delft - NL
- 78 Hogeschool I Telemark - NO
- 79 Akademia Techniczna – Humanistyczna w Bielsku Białej - PL
- 80 Politechnika Śląska - PL
- 81 Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie - PL
- 82 Politechnika Krakowska im. Tadeusza Kościuszki - PL
- 83 Politechnika Lubelska - PL
- 84 Delphi - PL
- 85 Instituto Superior Técnico - PT
- 86 Academia Militar - PT
- 87 Instituto Superior de Engenharia de Lisboa - PT
- 88 Universidade Nova de Lisboa - PT
- 89 Faculdade de Engenharia da Universidade do Porto - PT
- 90 Instituto politécnico do Porto - PT
- 91 EST Setúbal - PT
- 92 Universitatea Politehnica din București - RO
- 93 Universitatea Tehnică din Cluj Napoca - RO
- 94 Institutul National de Cercetare Dezvoltare pentru Tehnologii Izotopice si Moleculare - RO
- 95 Universitatea din Craiova - RO
- 96 Universitatea Tehnică "Gh. Asachi" Iași - RO
- 97 Universitatea "Politehnica" din Timisoara - RO
- 98 Kungliga Tekniska högskolan - SE
- 99 Uppsala universitet - SE
- 101 Jozef Stefan International Postgraduate School - SI
- 102 Slovenská technická univerzita Bratislava - SK
- 103 Technická univerzita v Košiciach - SK
- 104 Doğu Akdeniz Üniversitesi - TR
- 105 T.C. Doğu Üniversitesi - TR
- 106 Boğaziçi Üniversitesi - TR
- 107 Ege Üniversitesi - TR
- 108 The Open University - UK
- 109 University of York - UK
- 110 Приазовський державний технічний Університет - UA
- 111 Faculté de Génie, Université Libanaise - LB
- 112 Université Joseph Fourier Grenoble - FR
- 113 e-LEE
- 114 ENS de Cachan - FR
- 115 Spectrum-tec Ltd - UK
- 116 Universitatea de Vest "Vasile Goldis" din Arad - RO
- 117 TEI KphthΣ (Technical Educational Institute of Crete) - GR
- 118 Ingeniørhøjskolen i København - DK

European and  
national Societies

2 24 42  
3 41 113

