



e-Catalogue and e-Survey Web Portal of EIE-Surveyor Project - Task 2

**REFERENCE POINT FOR ELECTRICAL AND
INFORMATION ENGINEERING IN EUROPE**

Thematic Network

User Manual

(v3.0)

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EIE-Surveyor Task2 Web Portal USER MANUAL

Descriptions:

EIE-Surveyor: This is the EU Socrates project (2005-2008) with the declared objectives of:

- Reflection on generic competences and subject-specific competences in Electrical and Information Engineering (EIE)
- Implementation of quality assessment methodologies on some educational resources available in EIE
- Reflection and proposition of a methodology for accreditation, in order to enhance comparability and common certification procedures
- 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.

URL: <http://www.eie-surveyor.org/>

Relationship to the EIE-Surveyor Questionnaire Web Portal:

This web portal has a link from the EIE-Surveyor Questionnaire Web Portal.

URL: <http://laraweb.fei.tuke.sk/questionnaires/>

EIE-Surveyor Task 2: This is the task within the EIE-Surveyor project that deals with the “quality” assessment of some educational resources available through the Internet in the field of Electrical and Information Engineering. In order to do this “quality” assessment e-resources need to be catalogued. This is done using the *e-Catalogue* system. Quality assessment is to be done using an online form based questionnaire that accepts user responses to a number of questions designed to help assess the popularity/usefulness of e-resources from the point of users. This is done using the *e-Survey* system.

e-Cat (e-Catalogue): This is an electronic catalogue (e-Cat) system. It is a repository of electronic resources (e-Resources: web based online electronic resources for learning) available in the field of Electronic and Information Engineering (EIE) within the European arena.

This web site provides a facility for interested parties to contribute to the e-Cat. This can be done by entering summary information about their e-resources available over the Internet. These resources could include resources such as course web pages, course/lecture notes, tutorials, solution manuals, visualisation packages, simulators, virtual labs, remote labs, software, and other e-learning materials. Each e-Cat entry is a record for an e-resource or a collection of e-resources reachable through a given URL (link). E-cat entries keep summary data about each e-resource in a modified SCORM (Sharable Content Object Reference Model) metadata format.

It is advised that each e-Cat entry be used to have a link directly to the resource described. Multiple e-resources available from one URL may be entered separately as distinct e-resources for ease of classification and access.

e-Surv (e-Survey): This is a web based survey facility for user responses on the usefulness of the links provided. These results will be used to star-rate resources in the e-Cat repository and will provide statistics on the type and extent of the resources available for e-learning in the field of Electronic and Information Engineering. Learners and other users of the resources are invited to fill out the e-Survey entries for the links they have used in the e-Cat.



1. e-Cat (e-Catalogue) and e-Surv (e-Survey) GENERAL

i) Unregistered Users/Visitors:

Unregistered users or visitors to the e-Catalogue web page can search material entered in the database through the e-Cat using the “Search” link on the right hand side of the main page. E-survey is not available for use by unregistered users/visitors.

ii) Registered Users:

Registered users can enter new records (summary information and link to e-resources) into the e-Cat, they can maintain these records, they can search through the e-Cat for information and they can carry out e-Survey on any record within the e-Cat except the ones that they have added to the repository.

a) Registration: In order to register to the system please select the “Register” option on the login page which is opened by selecting the login button on the upper right hand side of the main page. The registration page requests the entry of the following information: First Name, Surname, Institution, Position (optional), Country, Degree, E-mail, Username, Password and Confirmation of Password. Once the “Register” button is pressed, the record is entered into the users’ repository and the user is sent a confirmation mail that his account is opened. The mail is sent to the e-mail address provided. The user is authorised to enter the system after approvals by the site administrator.

b) Using the e-Cat: Registered users can “List All Records”, “List/Modify Own Records”, “Add Record”, and “Search” within the e-Cat.

c) Using the e-Surv: Once a registered user logs in, e-Survey can be carried out by first selecting “List All Records” or by searching the records in the e-Cat, (visiting the link indicated in the e-cat record in order to assess its usefulness) and then by selecting the “Evaluate” option on the page. Once this is selected, a questionnaire is presented which must be filled as indicated and submitted to the e-Surv repository. Persons entering new records into the system can not evaluate their own e-resources. However, they can evaluate as many of the other resources as they like but for each resource this can be carried out only once. Multiple evaluations from a given user for a given resource just over-writes the previously entered values. This is designed as described in order to avoid multiple evaluations of one resource by a given user.

d) Displaying the e-Survey Results: This function is only available for super-users. Super users are determined by the administrator. Survey results for any e-resource can be displayed through either the “List All Records” or the “Search e-Cat” option and then by selecting the individual resource, the resource’s page is brought up on the screen where it allows the selection and hence displaying of the results of the survey accumulated so far on the selected resource.

2. Using the e-Cat

i) Add Record:

Each record in the e-Cat consists of the following fields (with explanations and examples):

Key: [A]/[O]/ [M]: **Auto-increment/Optional/Mandatory field.**

General

[A] 1.1 Identifier: This is the content identifier and is auto-incremented by the system and hence this field is not displayed for the user at new record entry.

[M]1.2 Title: Title of the Internet based resource (e-resource); e.g. “EE456 Multimedia



Networking Course Web Page”.

[O] **1.3.1 Catalogue System:** Name of a known cataloguing system (e.g. ISBN or ISSN) if any.

[O] **1.3.2 Entry:** Value representing the e-resource within the catalogue system: e.g. ISBN
100220304.

[M] **1.4 Language:** Course/object language (e.g. English, French, German, etc.)

[M] **1.5 Description:** Descriptive text for the e-resource (e.g. Technical Elective Course web page).

[M] **1.6 Keyword(s):** Comma separated list of keywords appropriate for the content of e-resource;
e.g. Multimedia, Networking, etc.).

Life Cycle

[O] **2.1 Version:** Version number of the e-resource document/facility (if any); e.g. v1.0

[O] **2.2 Status:** Indication of whether the e-resource is Final or Draft.

[O] **2.3.1 Role:** Select; Author; Editor; Contributor; Publisher; Unknown.

[O] **2.3.2 Entity (Contributor(s)):** None or Comma separated list of contributing
authors/organisations for the course/object (e.g. person, dept., agency, etc.)

[O] **2.3.3 Contribution Date:** Contribution date; e.g. date of last update.

Technical

[O] **4.1 Format:** Format of the document/site, tool, or e-resource; e.g. .html, .doc, .pdf, .xml, etc.

[O] **4.2 Size:** Approx. size of the e-resource (i.e. in mega bytes); if appropriate.

[M] **4.3 Location:** URL of the resource; e.g. <http://www.utopia.edu/ECE/ee456/index.htm>

[O] **4.4 Requirement:** Technical requirements for object/course commitment; e.g. Flash, Direct X,
etc.

Educational

[O] **5.1 Interactivity Type:** Indicate the amount of interactivity required by the e-resource (e.g.
Select; active, expositive (just display and read), mixed, undefined.

[M] **5.2 Learning Resource Type:** Indicate what best describes the type of the e-resource; Select;
CWP (Course Web Page/Site); Lecture Notes; e-book; Tutorial; Examples; Solutions; R-
LAB (Remote Laboratory); V-LAB (Virtual Laboratory); Simulation; Software; Other.

[O] **5.3 Interactivity Level:** Indicate what best describes the type of the e-resource; Select; Very
low; Low; Medium; High; Very high.

[M] **5.6 Context:** Further Education (Further Edu.); University 1st Cycle; University 2nd Cycle;
University 3rd Cycle; Tech. School 1st Cycle; Tech. School 2nd Cycle; Professional
Formation (Professional); Continuous Formation (Continuous Edu.); Vocational Training
(Vocational)

[M] **5.8 Difficulty Level:** Select; Very easy; Easy; Medium; Difficult; Very difficult

[O] **5.9 Typical Learning Time:** Select; Less than 1 hr; 1-2 hrs; 3-5 hrs; 6-10 hrs; >10 hrs.

Rights

[M] **6.1 Cost:** Indicate whether the e-resource usage is at cost or is free; Select; Yes; No; Don't
Know.

[M] **6.2 Copyright:** Indicate if the e-resource has a copyright (i.e. select yes or no).

[O] **6.3 Description of Copyright:** Describe the nature of the copyright; (e.g. (c) Univ. of Padoa).

Classification (Purpose and Objective of the Course)

[M] **9.1.1 Discipline:** Indicate the title of the program/discipline area within/related to the Electrical
and Information Engineering the e-resource relates to: Select; or one of the following in
the list: (Electrical Engineering, Electronic Engineering, Electrical and Electronic



Engineering, Electrical and Computer Engineering, Electronic and Computer Engineering, Electrical and Information Engineering, Electronic and Information Engineering, Electrical Engineering and Computer Science, Electronic Engineering and Computer Science, Communications Engineering, Communications and Control Engineering, Computer Network Engineering, Computer Studies, Computing, Computer Science, Computer Engineering, Computer Science and Engineering, Information Engineering, Informatics, Software Engineering, Management Information Systems, Computer Education and Instructional Technology, Electronics and Computer Education), or Other (If Other is selected a new text box will open and accept the new entered Discipline/Program/Department name)

[O] 9.1.2 Idea: Indicate the idea behind the e-resource (purpose & objective of the content); e.g. To provide in-depth analysis of the subject area or to provide supplementary notes for the EE456 Multimedia Networking Course given at the Univ. of Padoa.

[M] 9.1.3 Pre-requisite: Indicate the prerequisite knowledge areas or course needed in order to follow the contents of the e-resource; e.g. Computer Networks.

[M] 9.1.4 Educational Objective: Indicate the educational objective of the e-resource; e.g. covers the course requirements of the technical elective for computer Engineering BS degree 4th year course.

[M] 9.1.6 Educational Level: Select; Introductory; Normal; Advanced.

ii) List/Modify Own Records:

This selection brings up the list of the records entered by the user. Using this option a user can maintain his/her own records. By selecting any of the records entered by oneself, a user can then display and modify/update any record entered into the system by himself/herself. No record entered by others can be modified. If any errors are spotted in any record by non-owners of the record, this can be corrected by editing the record by pressing the edit button at the bottom left hand corner. Alternatively these errors can be corrected by reporting these to the administrator of the site.

iii) Search:

A text based search is available within the whole of the e-Catalogue. By entering a text all records within the e-Cat can be searched and the results are displayed. Results are the records that contain the “text” entered anywhere within the record. This way either title, keyword or author searches are included in such a search.

3. Using the e-Surv

E-Survey results are only visible to the administrator and super-users. Normal users can carry out surveys but they can not see the survey results. Authorised persons are given super-user status by which they can access the survey results. E-Survey provides a summary of the answers as a percentage of answers falling to selections. User answers are kept anonymously for making the statistics of the survey results available. Hence, no user information is kept to identify the person who has carried out the survey. To activate from “home” do: “Search (with no text) / List all records → Display of all records available in the system appears → select “Results” button on the right hand side of the record that you want to see the statistical evaluation of.