SuperNova 1.0

The SuperNova Project, initiated in 2005, was developed in free software and is public and free. The files and documentation are on site GitHub. The SuperNova is a tool to help assess the quality of teaching of the undergraduate course POLI and currently is used for five USP units.

Latest Activity

• 22.07.13Relatórios General of the 1st half of 2013

• 17.07.131 º Informative Assessment Subcommittee of POLI

• 15.07.13Evolução student participation in CDE

Partnership with IMEUSP

This project involved the collaboration of Prof.. Dr João Eduardo Ferreira, Institute of Mathematics and Statistics, USP.

The quality built together

Students and teachers to develop tools for assessing the quality of teaching

Free public

Supernova is a project created in collaboration with POLI professors USP. </ P>

Different data, the same bank

To evaluate the quality of teaching means taking into account different levels of education. Gathering this information is a challenge

History

Since 2001, POLI is developed in the process of evaluating Student Consultation on Education (CDE

Communication first

The concept of evaluation based on student and seeking dialogue in the school community began in quarterly POLI courses.

• This model is currently used also in some courses in the School of Communications and Arts, Faculty of Law, Institute of Physics, Institute of Mathematics and Statistics and Institute of Chemistry (all USP).

• Says Prof. Pacheco that "were created by the students with encouragement CCK, evaluations of learning and teaching aspects of the disciplines of a module, conducted in a systematic and part of the calendar of meetings of the CCQ, which proved important tool for improvement of current quarterly . "

Based on student participation

Since 2001, POLI-USP makes the evaluation of disciplines by assessing students' opinion, called Student Consultation on Education (CDE). The purpose is to promote a discussion about the quality of the courses offered at the Polytechnic School: classes, teaching materials and integration between disciplines on the same module. Also highlight gaps in curricular content.

The CDE does not want to track the progress of classes or to punish or promote teachers, whether well or badly evaluated.

In 2005, in order to streamline the process and cross-reference information, SuperNova Project was created to manage the information from the CDE.

Professor Dr. Claudio Pacheco, creator of this evaluation model, says that "these assessments are extremely important, since the dynamics of learning is changed according to the profile of the students always renewed. Teach techniques age and ratings allow a regular basis so that they can be continuously updated without traumas that occur in teaching processes that are not self observed. "

Currently, this type of evaluation occurs throughout Polytechnic with expected changes, since the process is flexible and aggregates local characteristics. On average, the rate of nominal participation of students completing the questionnaires optical is about 50%, and in the first year some classes have up to 90% coverage. At USP, this evaluation model is also used in some courses at the School of Communications and Arts, Faculty of Law, Institute of Physics, Institute of Mathematics and Statistics and Institute of Chemistry.

The application of the CDE SuperNova

Flexibility

SuperNova is possible that in each year of a course or degree course each has its unique set of questions. By customizing the CDE approaches the local demands.

Maintain a fixed set of questions can help in historical analysis of a particular index.

Data Analysis

With a well-structured set of data to conduct research becomes easier and faster. Through specific software can perform regression analysis and correlation, nonparametric tests and other statistical inferences.

The Idea Base SuperNova

The SuperNova is designed to help the CDE. Here, we show step by step how this occurs.

Step 1: Course Information

Initially it is necessary to fill the database with the course information as the names of disciplines, teachers and classrooms. This can be done manually or by a bot.

2nd Step: The questionnaire

After constructing the questionnaire collaboratively with the Class Representatives, the questions are inserted in SuperNova. After a file is generated for printing the questionnaire.

Step 3: Insert the answers

The data obtained from the questionnaire are entered into the SuperNova. Version 1.0 works with an input format typical machine-readable.

Step 4: Reporting

At the interface of SuperNova, reports can be generated and made available in PDF.

5th Step: Crossing data

The SuperNova was built in MySQL This makes it possible to use survey software with database and use statistical software for analysis.

The intense interest in building quality

Consultation on Student Education (CDE) and the Project SuperNova were only possible due to the collaborative work of the USP community. The dialogue makes new solutions are found. By overcoming these challenges, students and teachers end up believing further evaluation.

Data collected since 2007 in POL

Worksheet for the Database

In the beginning, they were used spreadsheet programs and text editors to prepare the reports, which were ready after six months of employment.

In 2005, we started the development of a database, Project SuperNova.

The first pilot application of SuperNova occurred in 2007, and the reporting is automated and lasts a few seconds.

• Since then many improvements have been made to reach SuperNova version 1.0

Reports POLI USP

The legitimacy of the CDE and the agility of the SuperNova

The consolidation process was made possible due to the significant participation of the students in completing the questionnaires and the rapid distribution of results, which helped in the preparation actions for the improvement of teaching.

The student to see that the assessment generates results, ultimately believe even more in the process.

The SuperNova can be used for collecting and analyzing opinions

Measure quality

Activities where there is exchange of services and products are subject to quality analysis. Customer perception can be an index on the composition of the meaning of quality.

Currently, it is increasingly common use of survey tools for customer feedback to improve service or product.

The SuperNova, being free software, can be adapted to different needs. A student can be understood as a client and a teacher can be a identified as a service provider.

The files and documentation are on site GitHub

Free Software

The SuperNova has been developed in free software. With access to the code, changes to the database and interface can be made.

To learn more about free software visit the Center of Competence in Free Software

Interests in Congress and Books

Dissemination of knowledge

One of the goals of the SuperNova is the dissemination of its results to the scientific community

The papers presented deal with the concept of the evaluation, the technology used in the evaluation process and the consequences of data analysis and dialogue between teachers and students.

The opportunity to exchange information with researchers was instrumental in the development of assessment activities and tools SuperNova.

Own publications

In order to disseminate the results of the evaluation and successful teaching practices in the students' opinion, the Subcommittee on Evaluation of POLI-USP decided to produce a newsletter containing data and analysis.

• 1st edition of the newsletter of the Subcommittee on Evaluation POLI-USP.

New ideas for SuperNova 2.0

Developing

- New graphic formats

- Direct connection system online questionnaires

- Correlation with databases of student performance in undergraduate

- Statistical analysis

The POLI invests in SuperNova

The Polytechnic School of USP continues to invest in staff and infrastructure to the SuperNova face new challenges.

There is interest SuperNova am applying for lifting opniões teachers and former students. The next version will meet this demanada