

TECHNICAL PROFILE FACULTY WEBSITE QUALITY LEVEL EVALUATION

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This paper will analyze the data concerning the required information accessed by candidates for admission in a technical faculty, assessing its level of quality. The Faculty of Electrical Engineering, University Politehnica of Bucharest, website was chosen as subject of study. The evaluation of this website was conducted based on a survey questionnaire of existing utilities on the internet for search engine optimization. After collecting and processing the responses received on the basis of the conducted and distributed survey questionnaire, the obtained results will be presented in this paper.

Keywords: quality, required information, technical profile, electrical engineering

1. The study of required information accessed by different interest groups

The reason why this analysis was performed is because in this moment there are not many case studies concerning the education websites quality level in relation to the accessed information by different categories or types of users.

Based on a previous report on some existing tools on the internet, a survey questionnaire has been conducted containing 23 questions, each of them having 5 predefined answer possibilities.

The website of the Faculty of Electrical Engineering, University Politehnica of Bucharest, was chosen having in mind the history and performance of this faculty since the establishment of the ‘Polytechnic School of Bucharest’.

During the history of Romanian electrical higher education, beginning in 1913 and until this moment, the evolution of this faculty is standing out. [1]

After the study of the Electrical Engineering Faculty website [2], it was found that it covers a very broad spectrum of users who are interested in different

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information among whom are potential or prospective students (students in final grades of high school) and their parents.

Based on this information a survey questionnaire was drawn mainly aimed at the general study of the quality of [3] - [6] the Faculty of Electrical Engineering website.

The main questions or statements of interest implemented in this survey questionnaire are the following:

- Availability of contact data;
- The website is original;
- The possibility of providing feedback on the website page;
- The target groups (students, parents, masters, doctoral students, teachers, etc.) are clearly defined on the website;
- The Faculty of Electrical Engineering activities are clearly described;
- The existence of possible links to additional resources;
- Contents are relevant and of good quality;
- Speed of accessing website is satisfactory;
- It is easy to find the content you are looking for;
- It is easy to go back to the main page after accessing other pages;
- Font size is easy to follow;
- The website visualization is accurate.

From 12th to 28th of July 2014, the period of the entries and registrations in the college admission, it was managed to approach the 75 persons who agreed to answer the survey questionnaire questions done in person.

The statistical data was collected and processed [7] - [10] concerning the quality and the impact over the questioned user of the Faculty of Electrical Engineering website information, in terms of three categories of study (Website page identification, Content, Navigation and design).

2. The collection, processing and analysis of required information accessed by the candidates for admission and their parents

The collection of statistical data on the quality and impact of information [11] existing on the website of the Faculty of Electrical Engineering, in terms of three categories of study, i.e. **Identification of the website, Content, Navigation and design**, over the user interrogated during admission allocated under this faculty (12th to 28th of July 2014).

The analysis of the concerned survey questionnaires, in terms of quality, content and design of the website of the Faculty of Electrical Engineering and processing of the data collected will be the subject of study in which the main source of assessments and responses is the HUMAN FACTOR.

The survey questionnaire was applied to a sample of 75 persons from several age categories.

The respondents were divided as follows:

Table 1

Respondents by age

Age	Procentual value respondents
18 – 20 years	65,33%
over 20 years	34,67%

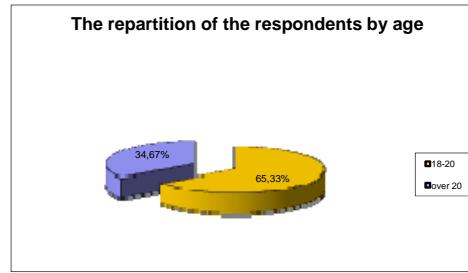


Fig. 1 The repartition of the respondents by age

It may be noted that most respondents are young people aged between 18 and 20 years.

2.1. Website page identification

2.1.1. The availability of contact data

The existence of contact data on the faculty website platform:

Table 2

The answers of respondents regarding the availability of contact data

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	25,33	18,67	44,00
To a large extent	34,67	12,00	46,67
Average	5,33	2,67	8,00
To a small extent	0	1,33	1,33
To a very small extent	0	0	0

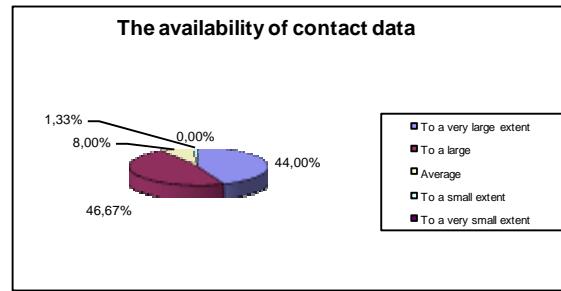


Fig. 2 The repartition of answers to question 2.1.1

As you can see, over 80% of respondents believe that the information on contact details are easy to find.

2.1.2. The website page is original

Question or statement which is trying to show the fact that this page is an original one, not a copied one.

Table 3

The answers to those surveyed in terms of originality website

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	29,33	17,34	46,67
To a large extent	28,00	12,00	40,00
Average	6,67	4,00	10,67
To a small extent	1,33	1,34	2,67
To a very small extent	0	0	0

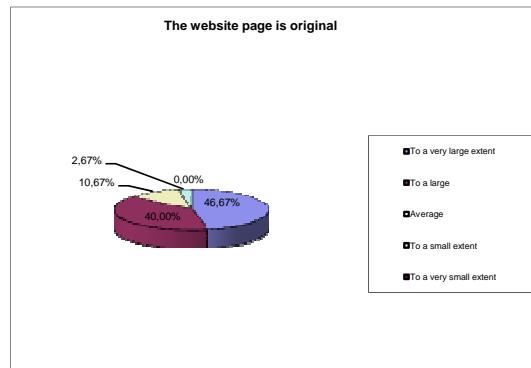


Fig.3 The repartition of answers to question 2.1.2

More than 80% of the respondents believe that the website is genuine.

2.1.3. The possibility of providing feedback on the website page

The existence on the website page of an e-mail address where messages, impressions or suggestions regarding the issue exposed above can be sent.

Table 4

The answers of respondents regarding the possibility of granting feedback in the website

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	18,66	6,67	25,33
To a large extent	28,00	18,67	46,67
Average	17,33	6,67	24,00
To a small extent	0	2,67	2,67
To a very small extent	1,33	0	1,33

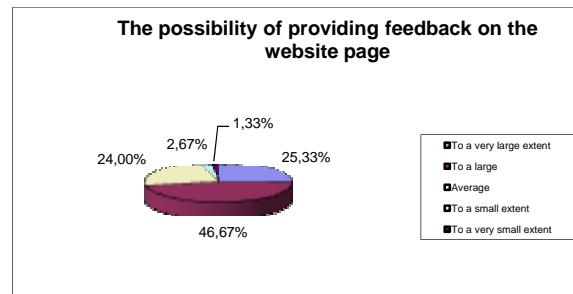


Fig.4 The repartition of answers to question 2.1.3

About 25% of respondents who really understood this question responded favorably, which leads us to consider a minus regarding the granting of feedback within the website. This can be remedied by implementing a feedback form outside the contact, within which you can apply various proposals or questions.

2.2. Content

2.2.1. The target groups (students, parents, masters, doctoral students, teachers, etc.) are clearly defined on the website

On the faculty website page the categories mentioned above are well defined.

Table 5

The answers to those surveyed in terms of the target groups defined in website

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	36,00	21,33	57,33
To a large extent	22,67	12,00	34,67
Average	6,67	1,33	8,00
To a small extent	0	0	0
To a very small extent	0	0	0

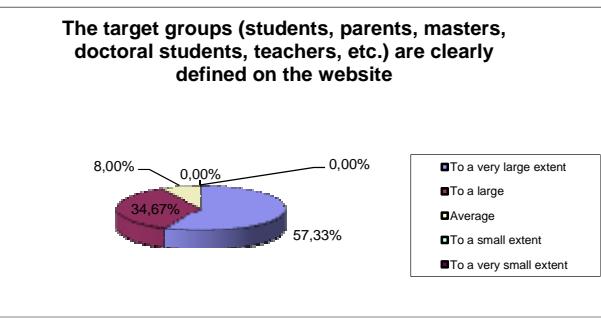


Fig.5 The repartition of answers to question 2.2.1

After an analysis of the answers given by the respondents can be seen that over 90% of them believe that the target groups (students, parents, masters, doctorate, etc.) are well defined within the website.

2.2.2. Faculty of Electrical Engineering activities are clearly described (schedule, timetable, etc.)

Regarding this statement, the reference is clear, namely: the curriculum, the schedule on defined categories, the scientific manifestations, the job offers, and the events supported by the faculty, etc.

Table 6
The answers of respondents regarding the description of the activities of the Faculty of Electrical Engineering

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	37,33	26,67	64,00
To a large extent	25,33	6,67	32,00
Average	2,67	1,33	4,00
To a small extent	0	0	0
To a very small extent	0	0	0

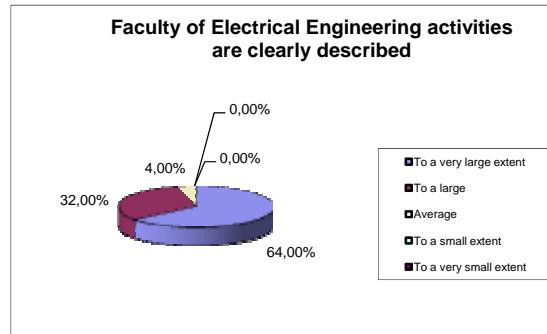


Fig.6 The repartition of answers to question 2.2.2

Over 90% of those surveyed responded favorably in this question which relates to activities description Faculty of Electrical Engineering.

2.2.3. The existence of possible links to additional resources

On the faculty website page there are links which direct to partners or to those who are standing out by offers or educational resources.

Table 7
The answers of respondents regarding the existence of possible links to additional resources

Answers	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	16,00	10,67	26,67
To a large extent	24,00	21,33	45,33
Average	24,00	2,67	26,67
To a small extent	0	0	0
To a very small extent	1,33	0	1,33

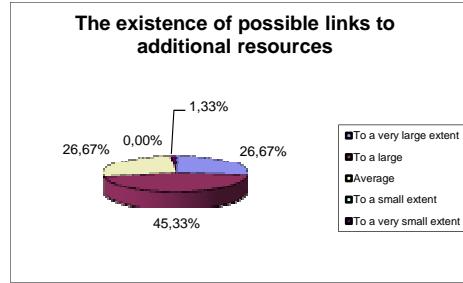


Fig.7 The repartition of answers to question 2.2.3

Regarding the existence of possible links to additional resources can be seen that improvements can be made in this category can be deployed many links to partner companies of the Faculty of Electrical Engineering which offers students employment opportunities, internship, scholarship or internship practice.

2.2.4. The content is relevant and of good quality

The website page contains quality and relevant information in terms of history and description of the faculty, educational offer, research, etc.

Table 8

The answers to those surveyed in terms of web page content

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	44,00	17,33	61,33
To a large extent	20,00	14,67	34,67
Average	1,33	2,67	4,00
To a small extent	0	0	0
To a very small extent	0	0	0

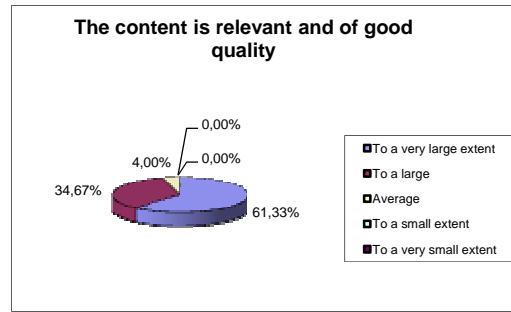


Fig.8 The repartition of answers to question 2.2.4

As you can see, the content and its relevance in the website are quoted as favorable with 90% of responses.

2.3. Navigation and design

2.3.1. The speed of accessing website is satisfactory

The accessing and loading speed of the website page is low which indicates a consistent connection between the web pages of the site.

Table 9

The answers to those surveyed in terms of access speed web page			
Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	40,00	13,33	53,34
To a large extent	16,00	17,33	33,33
Average	9,33	4,00	13,33
To a small extent	0	0	0
To a very small extent	0	0	0

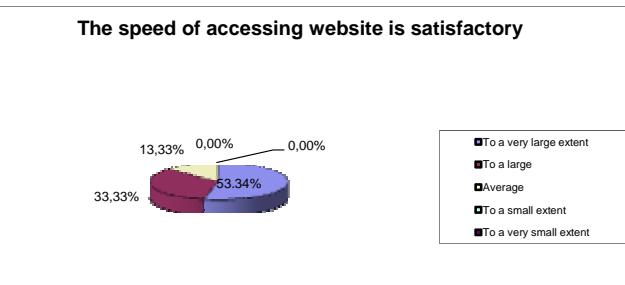


Fig.9 The repartition of answers to question 2.3.1

Those that connect to the site have in most cases a fast internet connection, shown by very rapid access to the website of the FIE, but there are some that do not have such a connection, mainly those in rural areas, 16 % of respondents are in this environment, which can be seen in the answers given on web page access speed, approximately 13% of them giving a negative response.

2.3.2. It is easy to find the content they are looking for

The information sought on the web site is easy to find and access.

Table 10

The answers to those surveyed in terms of ease of finding content of the information sought

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	28,00	16,00	44,00
To a large extent	28,00	13,33	41,33
Average	9,34	5,33	14,67
To a small extent	0	0	0
To a very small extent	0	0	0

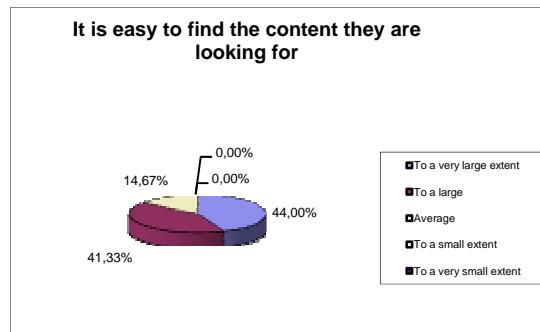


Fig.10 The repartition of answers to question 2.3.2

Even if we have a percentage of approximately 80% favorable, it can be seen that about 14% of respondents are dissatisfied with the existing structure of the web page. For an improvement in this category may be made to restructure the website according to the information most often sought, from a study of search engine optimization possibly more frequent links to pages within existing sub-categories, the home page or by a search mode in the website.

2.3.3. It is easy to go back to the main page after accessing other pages

The access of the first page of the website page of the faculty is easy.

Table 11

The answers to those surveyed in terms of ease of accessing first page

Answer	18 – 20 years (%)	Over (%)	Total (%)
To a very large extent	46,67	21,33	68,00
To a large extent	18,67	10,66	29,33
Average	0	2,67	2,67
To a small extent	0	0	0
To a very small extent	0	0	0

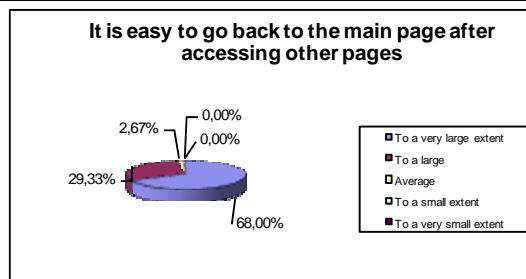


Fig.11 The repartition of answers to question 2.3.3

The existence of a button "HOME" shows that over 95% responded favorably to this question.

2.3.4. The font size is easy to follow

The text size is easy to view.

Table 12

The answers to those surveyed in terms of ease tracking web page font

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	44,00	14,67	58,67
To a large extent	17,33	16,00	33,33
Average	4,00	4,00	8,00
To a small extent	0	0	0
To a very small extent	0	0	0

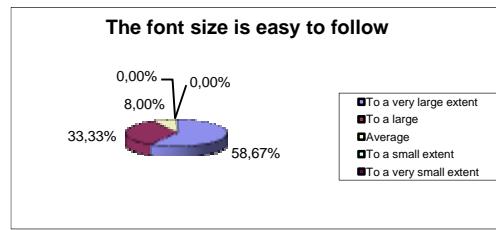


Fig.12 The repartition of answers to question 2.3.5

The positive response of over 90% proves that using a font easy to follow.

2.3.5. The visualization of website page is precise (the apparition of errors on the page, the changing of the structure, etc.)

In the studied web page there are no errors which usually appear when accessing a page, nor viewing errors in a navigation program utilized by those who were questioned.

Table 13

The answers to those surveyed in terms of FIE web page view

Answer	18 – 20 years (%)	Over 20 years (%)	Total (%)
To a very large extent	36,00	14,67	50,67
To a large extent	28,00	18,67	46,67
Average	1,33	1,33	2,66
To a small extent	0	0	0
To a very small extent	0	0	0

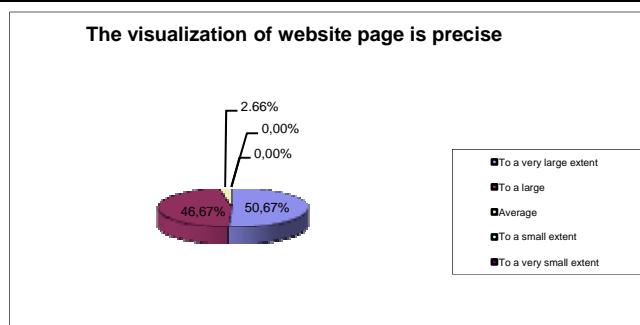


Fig.13 The repartition of answers to question 2.3.7

After the response to the over 90% who rated favorably this question can conclude that this website does not contain errors and is easily accessible. The main questions used in the survey questionnaire which are of interest as far as this statistic made in the present, are those which largely determine the quality of information and of the structure of a website in the field of electrical engineering.

Table 14

Dependance on the domicile the distribution of the respondents

Domicile	Procentual Value
Bucharest	21,33%
Urban	62,67%
Rural	16,00%

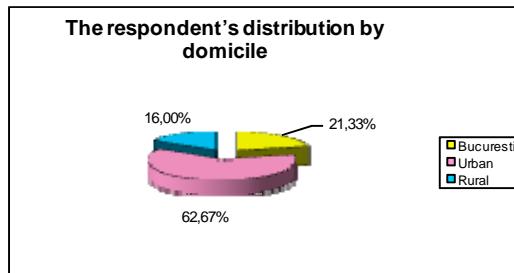


Fig. 14 The respondent's distribution by domicile

We can notice that we have over 80% of respondents with urban residence, including Bucharest, while 16% come from rural environment with a poor internet connection, somewhere over 80%.

4. Conclusions

This questionnaire consisted of 23 questions distributed in such a way as to provide information on respondents' opinions on the quality of the Faculty of Electrical Engineering website.

The questionnaire was divided into three chapters: ***Identification of the website, Content and Navigation and design.***

Upon analyzing the responses provided by all (75 respondents) questioned, we may grant admission to the following percentage based on the quality level of the web site in question:

- 49.91% of the respondents rated the web site as very much satisfactory.
- 38.66% of the respondents rated the web site as satisfactory.

Given these circumstances, we can state that the web site of the Faculty of Electrical Engineering is, at this moment, largely rated as above average, more accurate that 88.04% is based on terms of quality of design, graphics and the need for information contained and accessed from this page.

As proposals for improving the quality of the web site of the Faculty of Electrical Engineering are, in the first place, building a version of the web site in a foreign language, preferably in English, the implementation of statistical information on graduate opportunities for employment, etc., which could be available on the web site and, not the least, the possibility given to the user to have a reaction to the content and quality of this web site by providing online feedback.

A percentage of approximately 14% of those polled are dissatisfied were laid to the structure of the web page. It can address a restructuring of the web page according to the information most often sought. This can be defined in one study regarding search engine optimization (SEO), possibly implementing a search mode in the web page of the Faculty of Electrical Engineering.

After an analysis of 16% of unfavorable responses regarding web page access speed, default responses throughout the questionnaire data in question, it may propose a "cleaning" of the website, a reconstruction of existing information and inserting links to partner companies or budgetary organizations faculty of Electrical Engineering.

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R E F E R E N C E S

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