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CREATING THE NETWORK OF KNOWLEDGE LABS
FOR SUSTAINABLE AND RESILIENT ENVIRONMENTS
561675-EEP-1-2015-1-XK-EPPKA2-CBHE-JP

WB Institution: **Higher technical professional school in Zvečan [HTPSZ]**

Results of Survey
Student evaluation of the second level study program
Fire protection

School year 2017/18

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The Fire Protection Study program at specialized vocational studies was created in response to the contemporary needs of industry, economy and institutions that need engineers with current interdisciplinary knowledge in the field of fire protection. Starting from the fact that the quality of education is the primary goal and one of the priority tasks, HTPS Zvečan is constantly looking for new ways to improve the quality of education with the aim of educating students who will adequately respond to current problems in a turbulent environment. For this reason, through the survey questionnaire, a survey was conducted at HTPS Zvečan with the aim of improving teaching at the study program Fire Protection - specialist vocational studies.

The survey conducted during May and June 2018, which involved 23 HTPS students from Zvečan (total number of enrolled students was 26), gave projections of possible directions for improving the quality of teaching process.

Model of questionnaire is given in Annex 1 of this report.

In the survey questionnaire, students were asked to give their opinion on the question raised on the scale from 1 to 5. An analysis of the answers to the questions asked is provided below.

Analysis of the Evaluation Questionnaire of Study Program Fire Protection – part related to the **study program selection**:

Results of the answer to the question: **Why did you enroll in the Fire Protection Study Program?**

The answers to this question can be grouped into two large groups related to:

- future prospects for employment and
- personal improvement.

Results of the answer to the question: **Was the information on the study program available and quality (for example, on enrollment conditions, on the content and structure of the study program, etc.)?** are shown on Diagram 1.



Diagram 1

In Diagram 1 it is shown that the availability of information about the study program the highest number of students 69.57% has rated by with 5, and 26.09% of students rated 4. While a small number of students gave a grade of 3, in percentage terms, 4.35%.

Results of the answer to the question: **Did the study program fulfill your expectations?** are shown in Diagram 2.

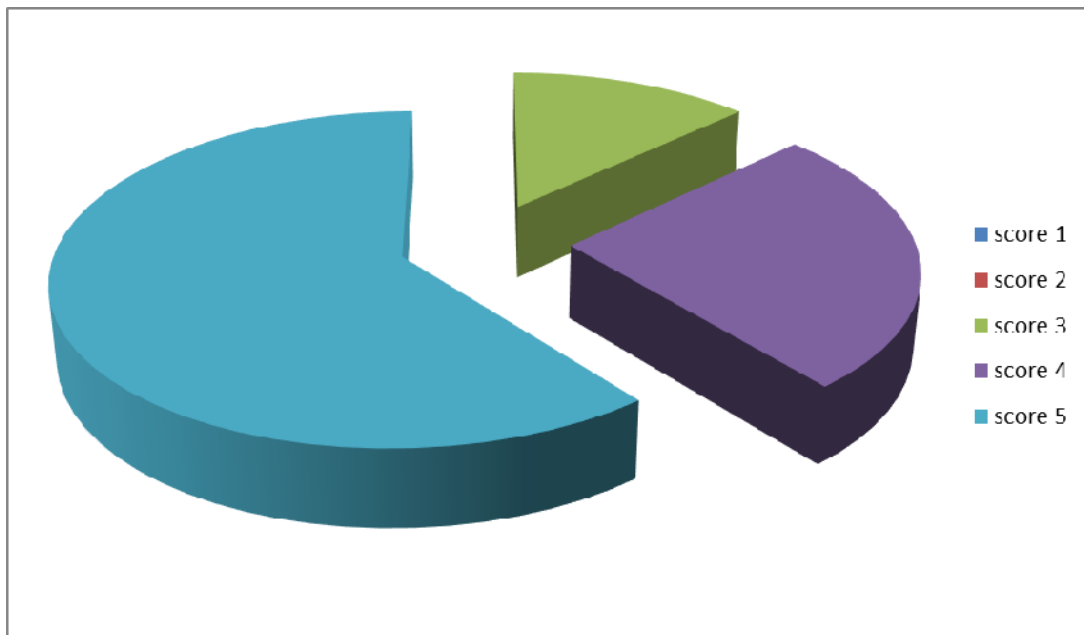


Diagram2

Diagram 2 shows that the highest number of students 60.87% rated fulfillment of expectation with 5, and 26.09% of students rated with 4. While a small number of students rated with 3, in percentage terms, 13.04%.

Analysis of the Evaluation Questionnaire of Study Program Fire Protection – part related to **Realization of the study program.**

Results of the answer to the question: **Is the teaching performed in time and according to the schedule?** are shown in Diagram 3.

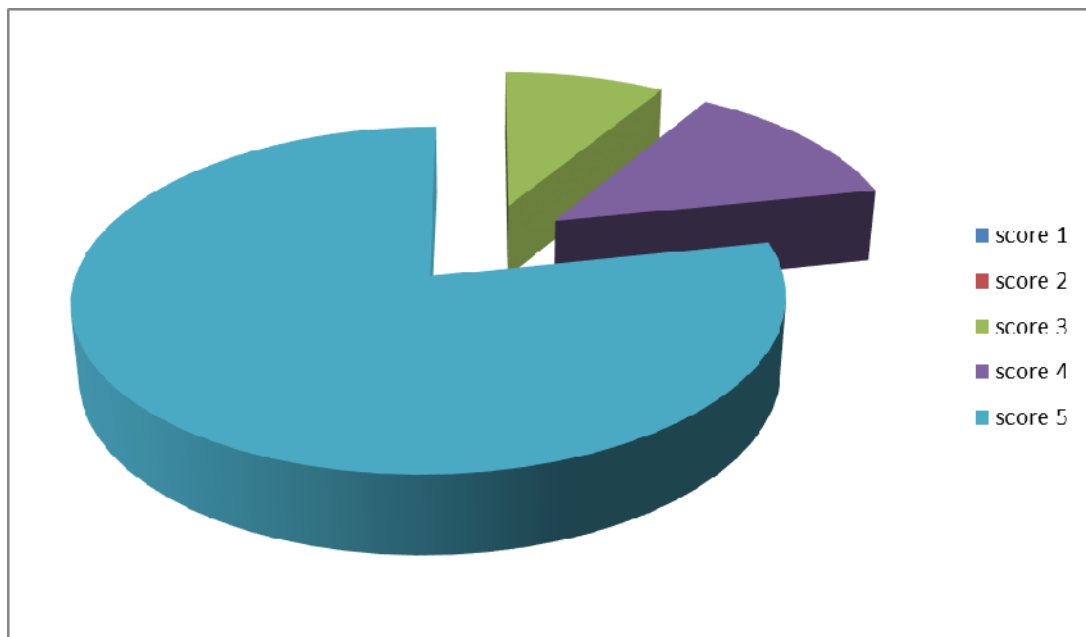


Diagram 3

Diagram 3 shows that the highest number of students 78.26% has rated mentioned question by grade 5, and 13.04% by grade 4. While a small number of students gave grade 3, in percentage terms 8.70%.

Results of the answer to the question: **Are teachers well prepared for teaching?** are shown in Diagram 4.

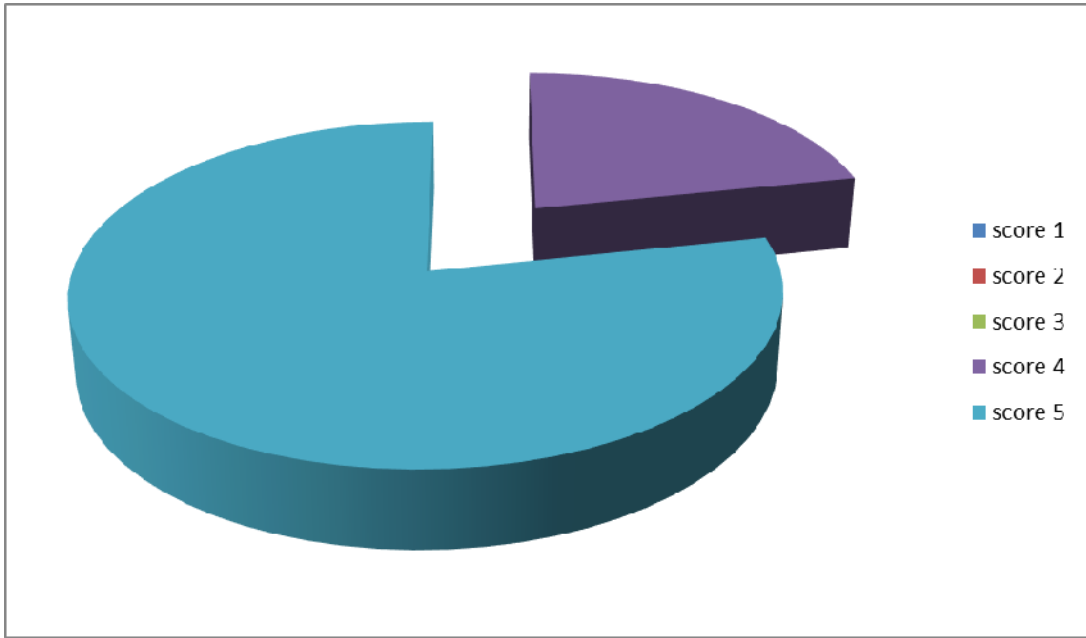


Diagram 4

In Diagram 4, the highest number of students 78.26% rated teachers' preparation for teaching with grade 5, and 21.74% of students rated by 4.

Results of the answer to the question: **Do teachers have good communication skills and create a pleasant working atmosphere?** are shown in Diagram 5.

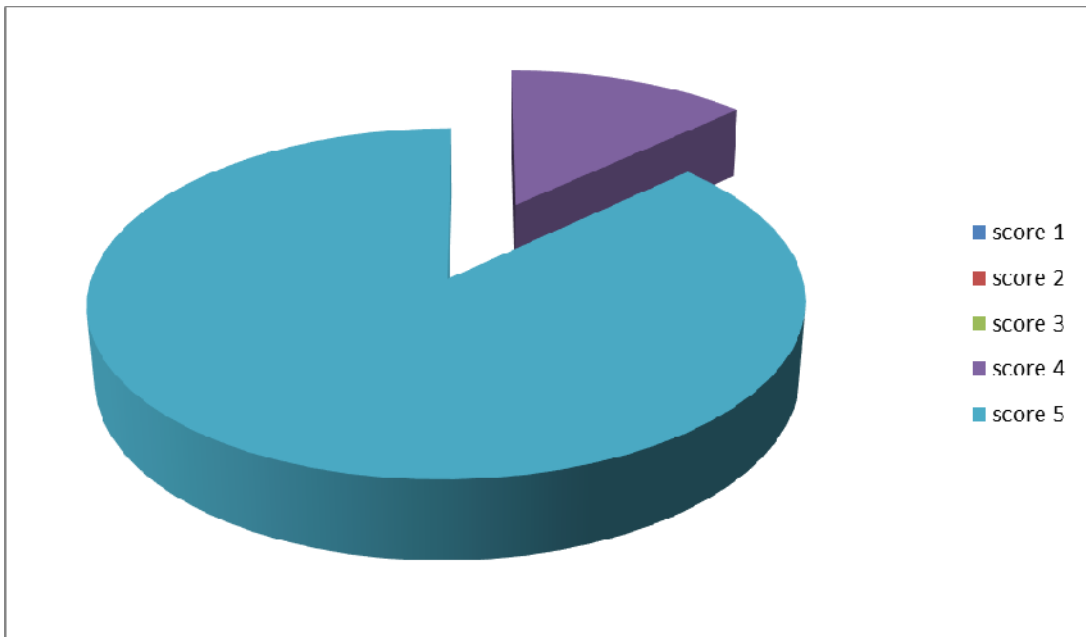


Diagram 5

Diagram 5 shows that the largest number of students 86.96% rated teachers' communication skills and work atmosphere as 5, and only 13.04% of students rates same with 4.

Results of the answer to the question: **Do the methods and forms of teaching correspond to the content of the program?** are shown in Diagram 6.

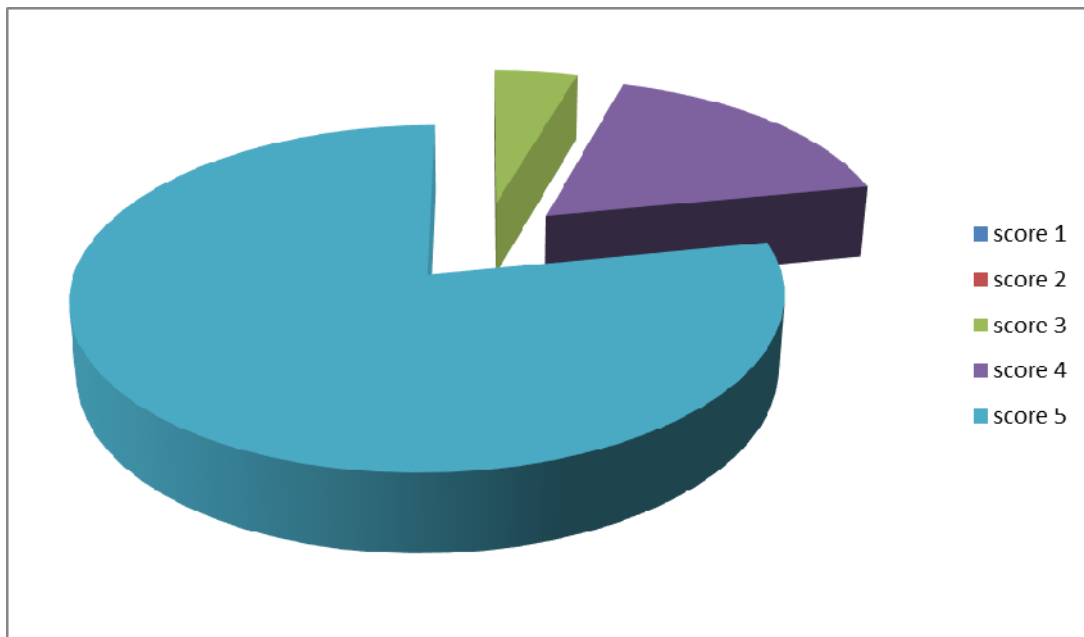


Diagram 6

In Diagram 6 it is shown that the largest number of students 78.26% has rated methods and forms of study content for the study program with a grade of 5 and 17.39% of students assessing by 4. A small number of students gave this question a grade of 3, expressed as a percentage of 4.35%.

Results of the answer to the question: **Is the weight of the teaching material consistent with the number of study classes and the studies cycle?** are shown in Diagram 7.

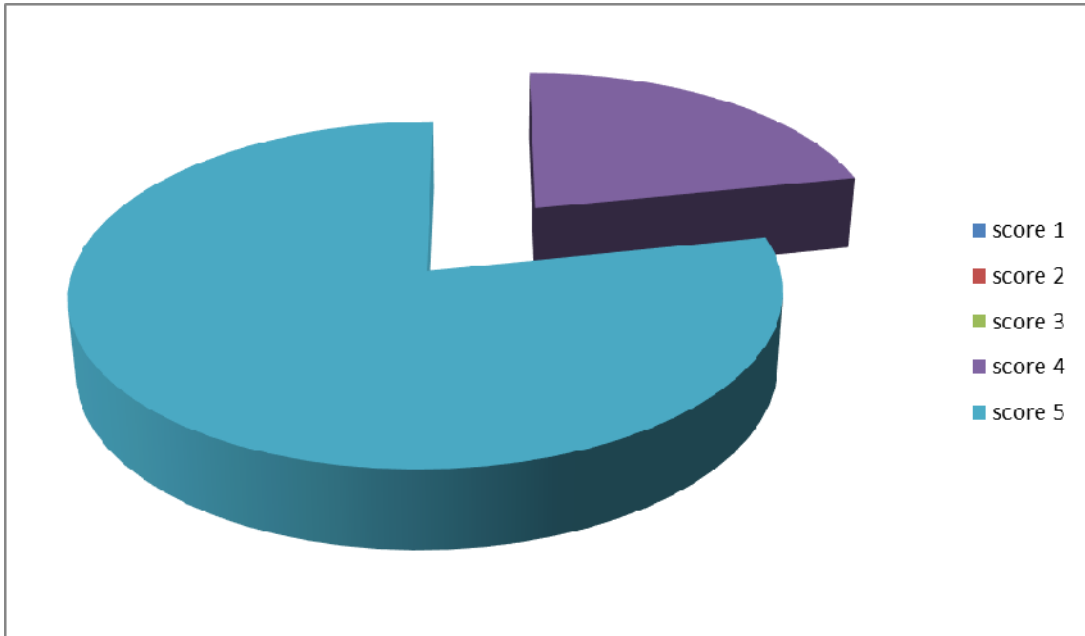


Diagram 7

In Diagram 7, the highest number of students estimated to 78.26% rated weight of the material according to the number of hours of teaching with a grade of 5, and 21.74% of students assessing by 4.

Results of the answer to the question: **Is mastering the teaching material too demanding?** are shown in Diagram 8.

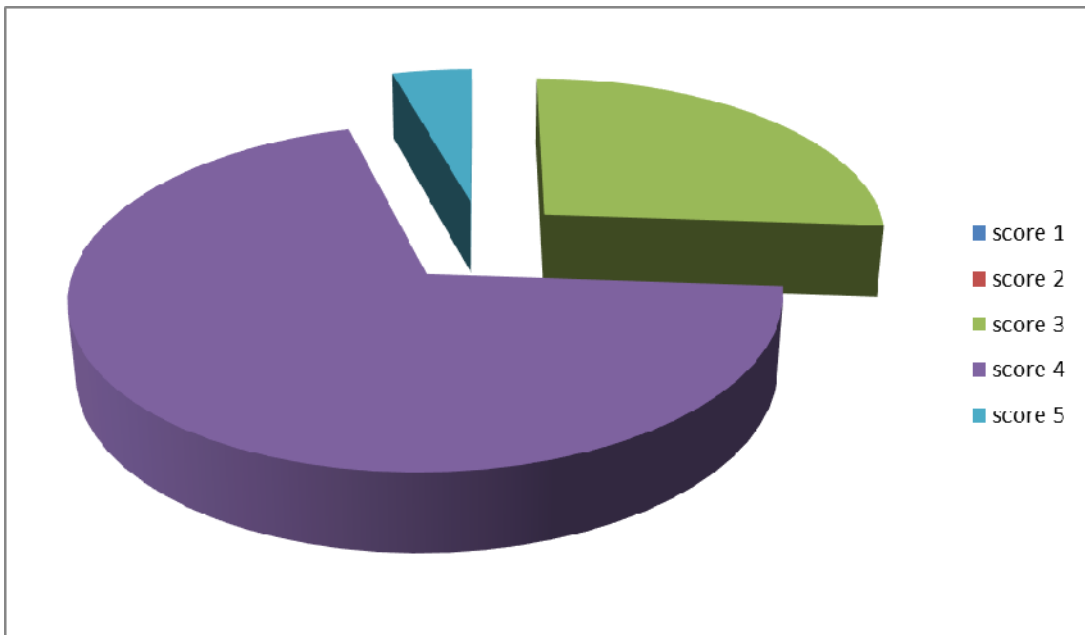


Diagram 8

Diagram 8 shows that the highest number of students 69.57% has rated the difficulty of mastering the teaching material with grade 4, and 26.09% of students assessed 3. A small number of students gave a rating of 5, a percentage of 4.35%.

Results of the answer to the question: **Are the forms of the exam appropriate to the content and curriculum cycle?** are shown in Diagram 9

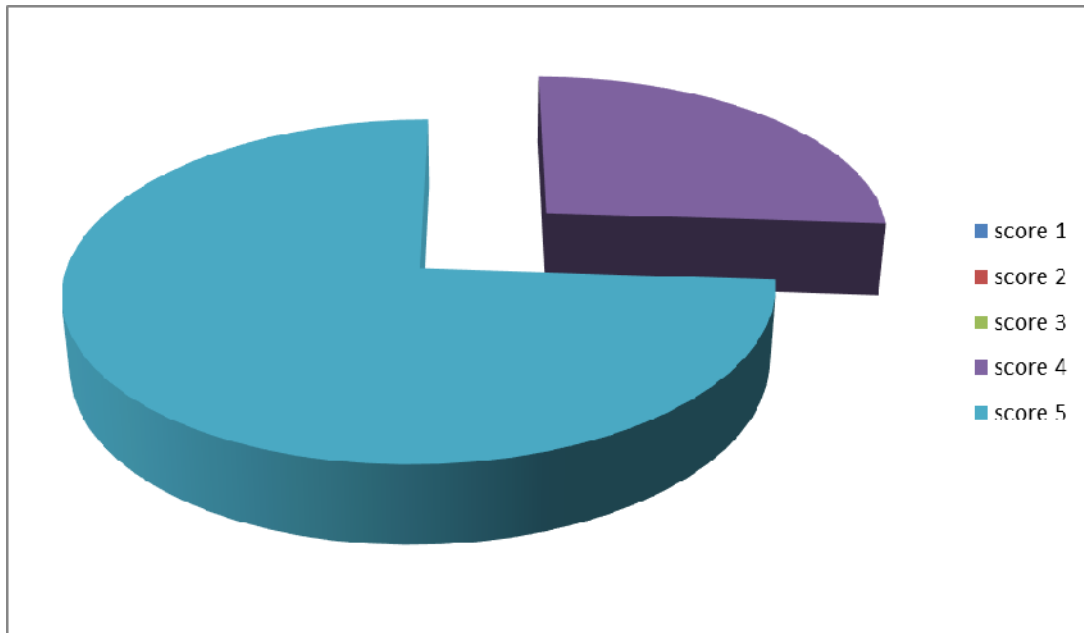


Diagram 9

Diagram 9 shows that the largest number of students is 73.91% rated forms of exam in relation to curriculum content and study cycle with 5, and 26.09% of students estimate by 4 whether the exam form corresponds to the content and curriculum cycle.

Results of the answer to the question: **Is the assessment method transparent and fair?** are shown in Diagram 10.

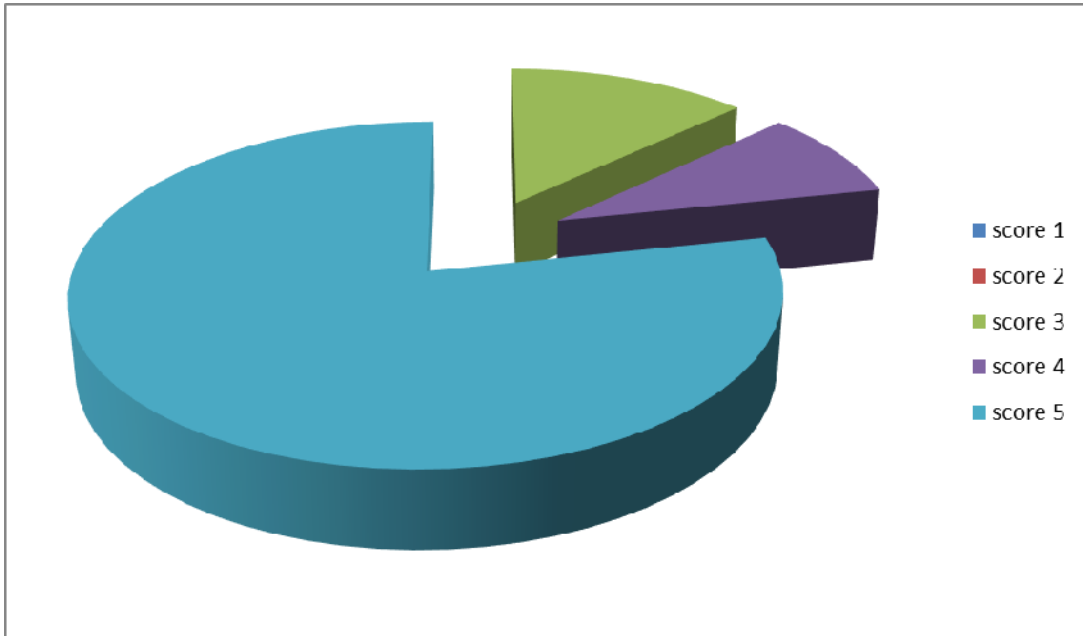


Diagram 10

In Diagram 10, the highest number of students 78.26% has evaluated the assessment method with a grade of 5, and 13.04% of students with a grade 3 rating. A small number of students gave this question 4, in percentage terms 8.70%.

Results of the answer to the question: **Was your work within the study program adequately mentored?** are shown in Diagram 11.

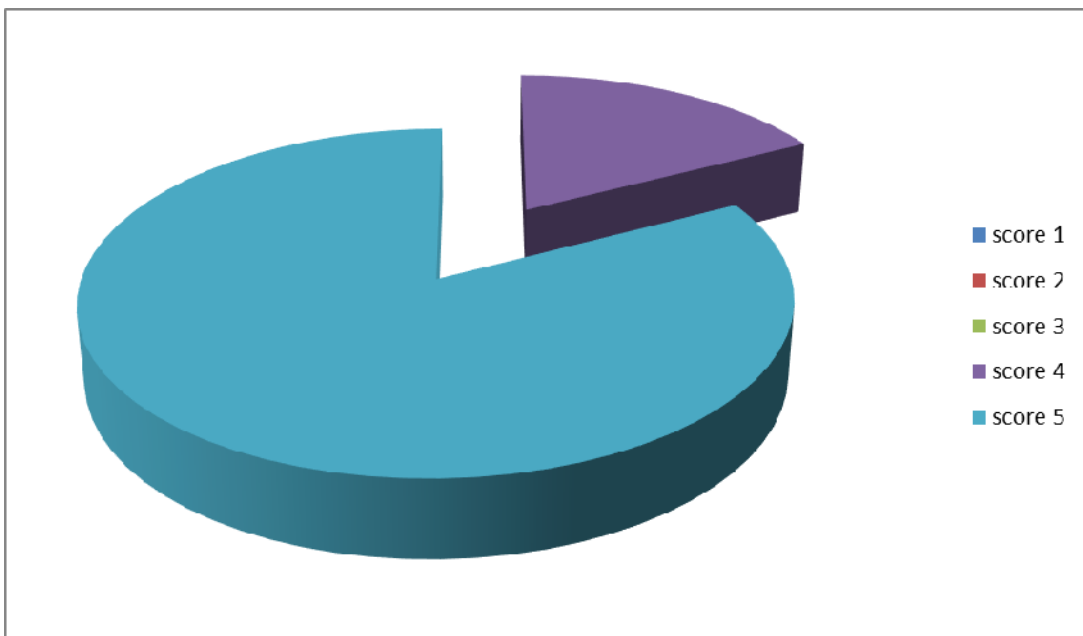


Diagram 11

Diagram 11 shows that the majority of students 82.61% rated with a score of 5, and 17.39% of students rated 4 whether the work within the study program was adequately mentored.

Results of the answer to the question: **Assess the quality of literature that was available to you and recommended?** are shown in Diagram 12.



Diagram 12

Diagram 12 shows that the majority of students 47.83% rated the quality of available literature with a score of 5, and 34.78% of students rated by 4, while 17.39% of students rated by 3.

Results of the answer to the question: **Was the teaching supported by interaction between students (such as discussions, group work, etc.)?** are shown in Diagram 13.

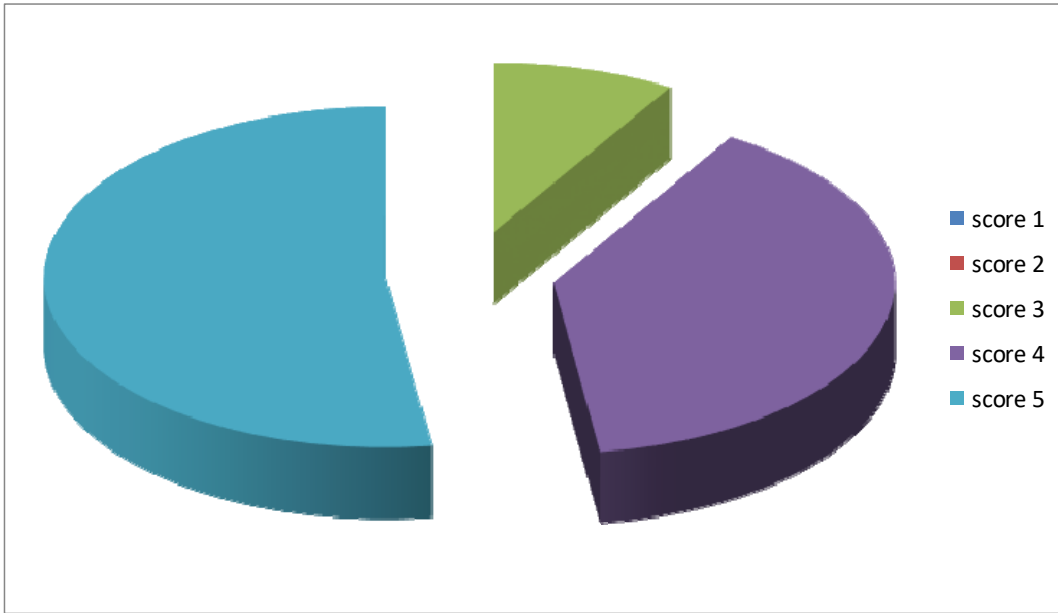


Diagram 13

In Diagram 13 it is presented that the largest number of students 52.17% rated the interaction between teachers and students by 5, and 39.13% of students evaluates as 4. A small number of students rated it by 3, in percentage terms 8,70%.

Results of the answer to the question: **Was the teaching supported by practical forms of learning (such as fieldwork, excursions, projects from a real context, etc.)?** are shown in Diagram 14.

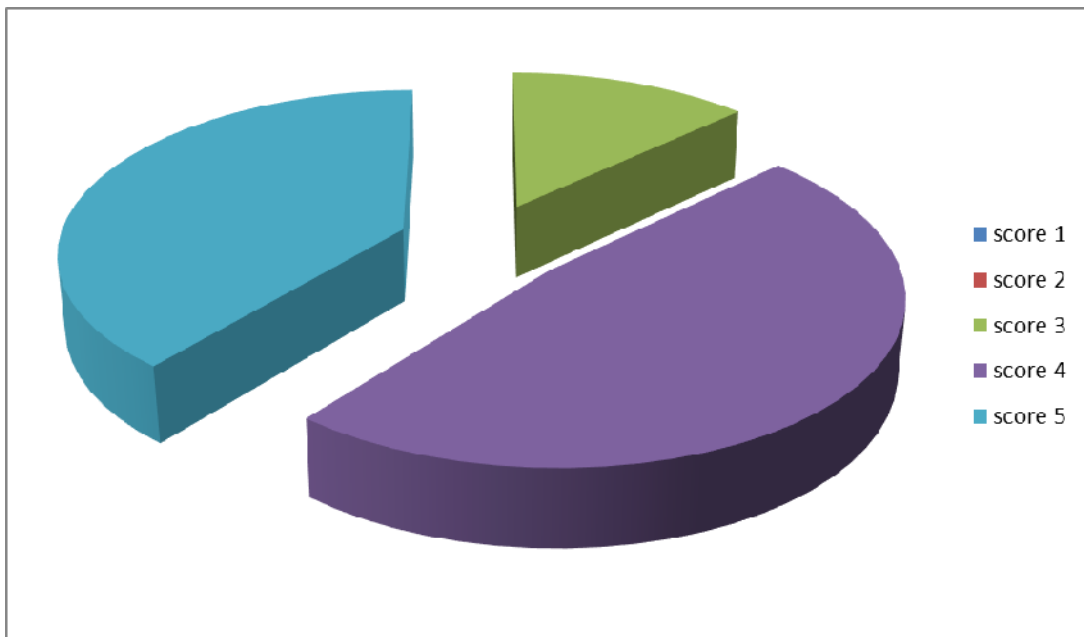


Diagram 14

Diagram 14 shows that the highest number of students 47.83% was rated practical forms of learning during classes with a grade of 4, and 39.13% of students rated by 5 and 13.04% of students assessing by 3.

Results of the answer to the question: **Provide your suggestions for improving your teaching.** The answers are different, but they can be grouped into:

- Improving teaching with more practical teaching
- Increased cooperation with companies
- Opening e-learning and distance learning.

Analysis of the Evaluation Questionnaire of Study Program Fire Protection, part related to –

Space and supporting infrastructure:

Results of the answer to the question: **Evaluate the quality of the space in which the study program is realized.,** are shown in Diagram 15.

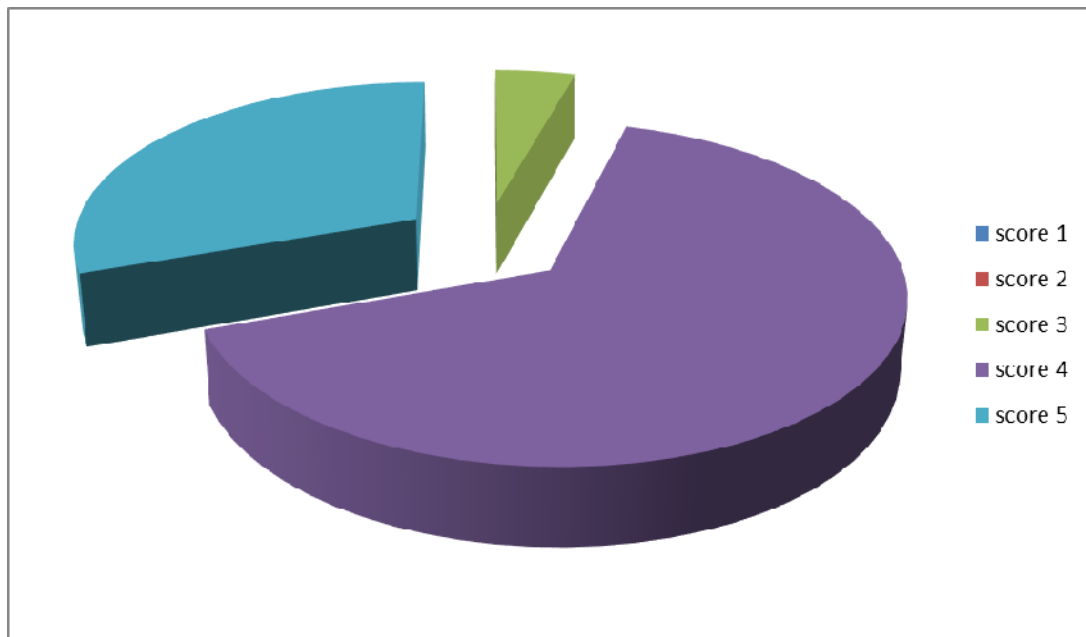


Diagram 15

Diagram 15 shows that the highest number of students 65.22% was rated quality of the space where the study program was realized as 4, and 30.43% of students assessed the 5. A small number of students gave this question a grade of 3, expressed as a percentage of 4.35%.

Results of the answer to the question: **Assess the quality of the infrastructure that supports the realization of the study program (such as student service, library, IT support, on-line learning, etc.)**., are shown in Diagram 16.

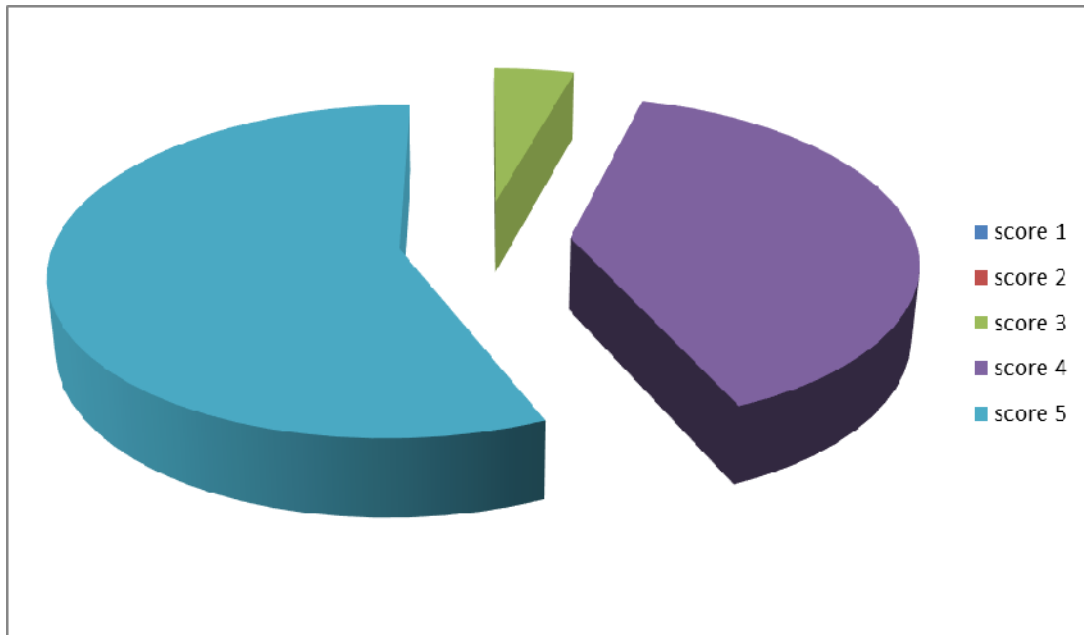


Diagram 16

Diagram 16 shows that the highest number of students 56.52% has rated the quality of the infrastructure with a grade of 5, and 39.13% of students assessed by 4. A small number of students rated by grade of 3, expressed as a percentage of 4.35%.

Analysis of the Evaluation Questionnaire of Study Program Fire Protection – part related to the **Study program and the labor market**.

Results of the answer to the question: **If you are employed, could you successfully coordinate the work and studies?**, are shown in Diagram 17.

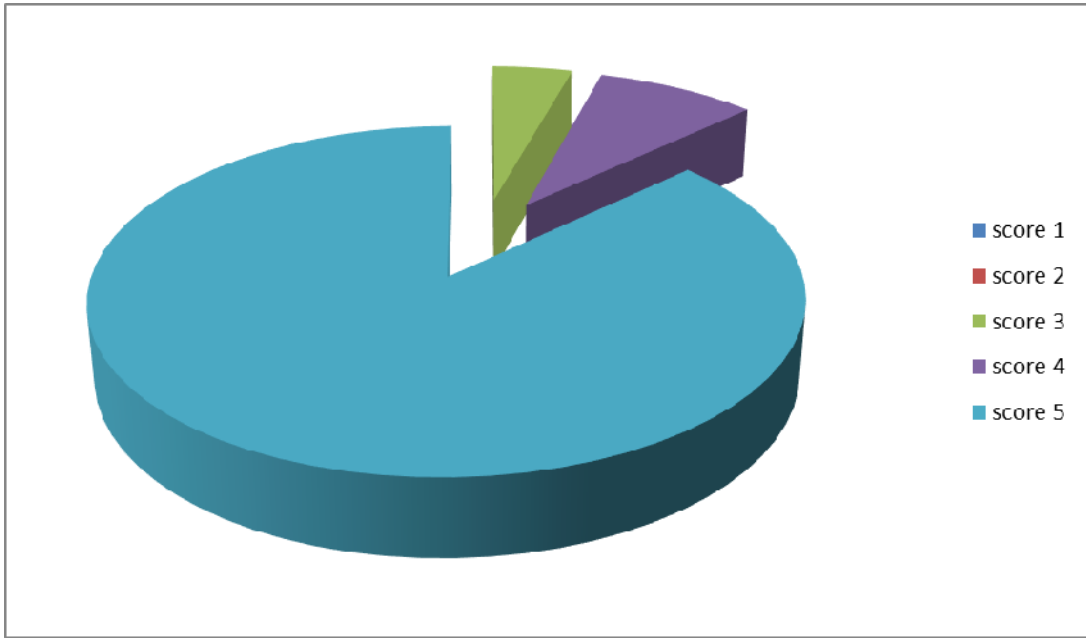


Diagram 17

In Diagram 17, the largest number of students is 86.96% rated coordination between work and studies as 5, and 8.70% of students rated by 4 work and study conformity. A small number of students rated by 3 in percentage terms of 4.35%.

Results of the answer to the question: **Assess the applicability of the acquired knowledge in the study program in practice.**, are shown in Diagram 18.

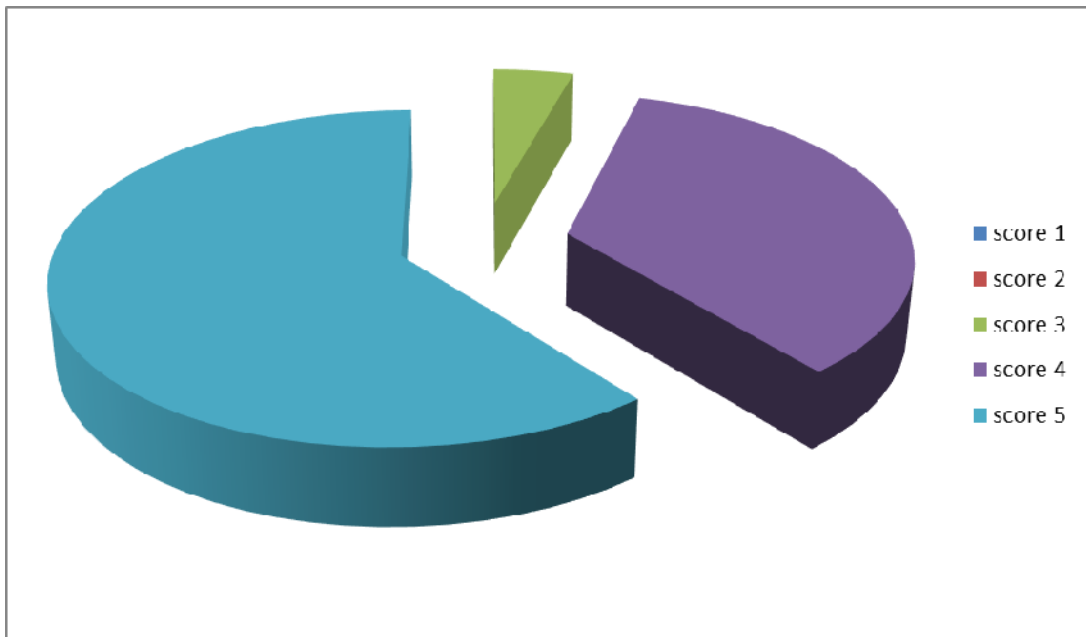


Diagram 18

Diagram 18 shows that the highest number of students 60.87% was rated applicability of the acquired knowledge in practice as 5, and 34.78% of students assessed by 4. A small number of students rated by 3, in percentage terms, 4.35%.

Results of the answer to the question: **Evaluate your readiness for the international labor market after the study program.**, are shown in Diagram 19.

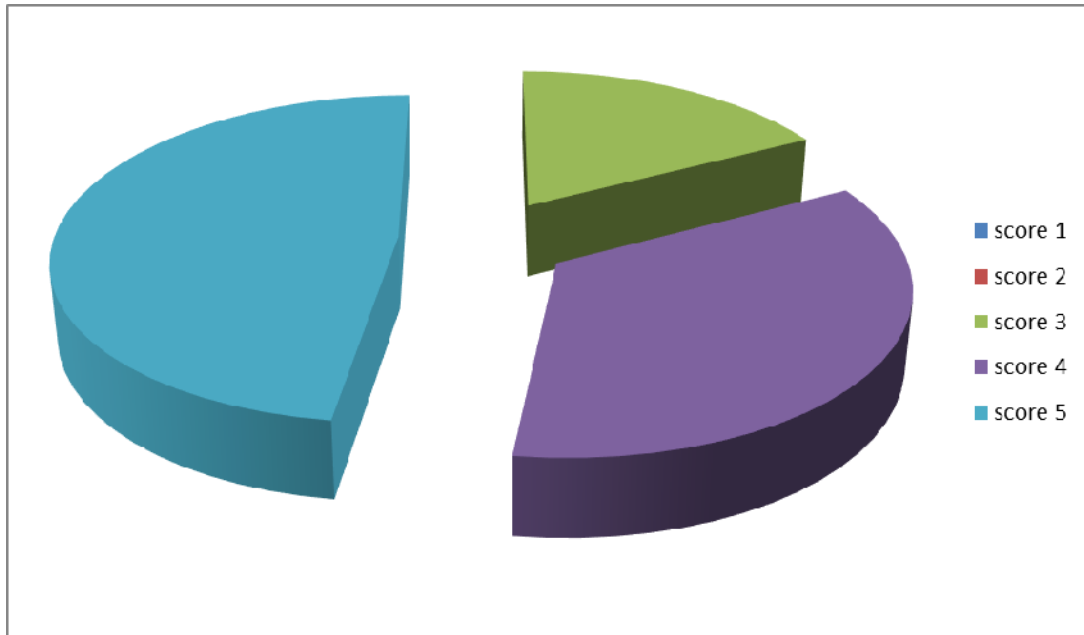


Diagram 19

Diagram 19 shows that the highest number of students 47.83% has rated students preparation for the international labor market with grade 5, while 34.78% of students has rated with 4, and 17.39% has rated with 3.

Results of the answer to the question: **Which area would you like to specialize in practice?**

Since this question was a free answer, we will provide a few most frequent:

- Fire protection
- Emergency Rescue
- Designing fire protection measures.

Analysis of the Evaluation Questionnaire of Study Program Fire Protection – part related to the **General Assessment of the Study Program**:

Results of the answer to the question: **List the most important knowledge and skills you have gained by attending a study program.**

The skills and knowledge that the students most frequently listed as acquainted by attending a study program are:

- ability to work in the field of fire protection
- basics for taking professional exams in the field of fire protection
- knowledge of mobile and stationary fire protection equipment.

Results of the answer to the question: **Name your favorite subject.**

Favorite courses in the opinion of students were:

- | | |
|--|-----------------|
| • Emergency Management | for 18 students |
| • Fire dynamics | for 16 students |
| • Design and maintenance of a fire alarm system | for 16 students |
| • Reengineering of fire protection | for 16 students |
| • Estimation of damage, insurance and premiums | for 16 students |
| • Safe electrical installations with fire protection systems | for 16 students |
| • Risk management and risk assessment methods | for 16 students |
| • Inspection, testing and servicing of fire protection systems | for 15 students |

Results of the answer to the question: **Would you recommend a study program to others? Why?**, are shown in Diagram 20.

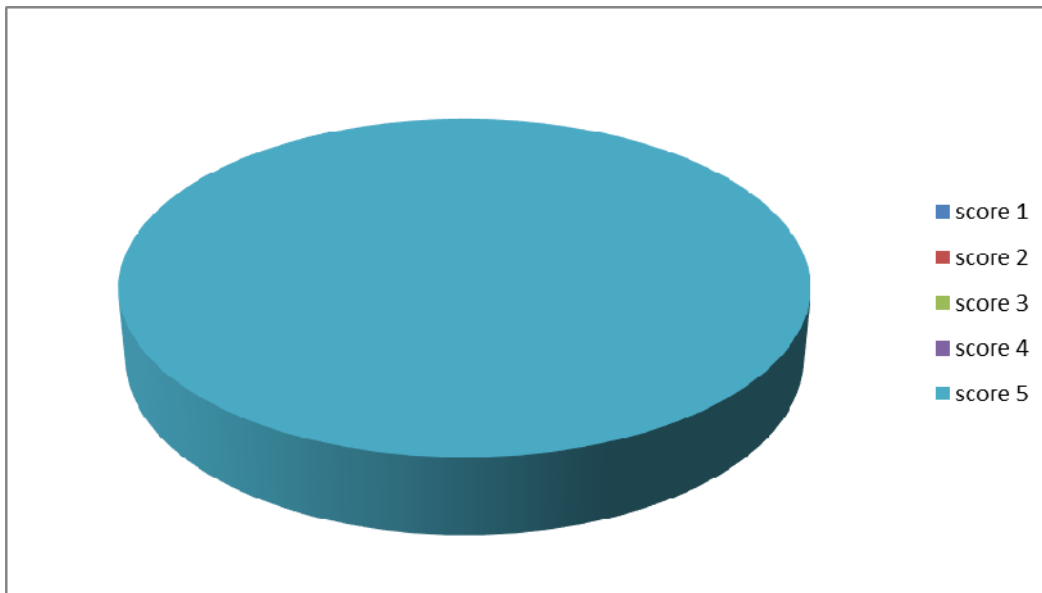


Diagram 20

Diagram 20 shows that all students, 100%, were rated as 5, i.e., so that everyone would recommend this study program to others, as a reasons they stated:

- Upgrading knowledge after basic studies;
- Because of the perspective of employment and professional advancement.

Results of the answer to the question: **Evaluate the study program overall.**, are shown in Diagram 21.

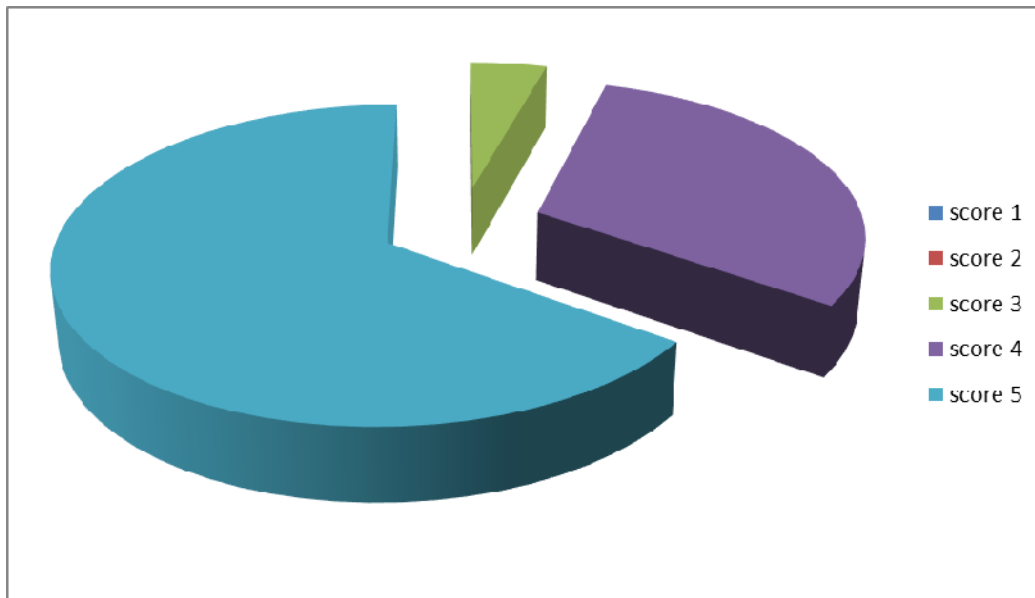


Diagram 21

Diagram 21 shows that the highest number of students 65.22% has rated the overall quality of the study program by 5, and 30.43% of students rated by 4, while a small number of students rated by grade of 3, expressed as a percentage of 4.35%.

From the gained results we can conclude that a huge contribution is expected to be given to the wider social community, through the education of professional staff that would make our work and living environment safer and securer thanks to their knowledge and competences. By introducing new, compulsory and elective courses, which are defined on the basis of the dominant identified problems in the protection and management of risks and threats from fire, industry, economy and science, on the one hand and in accordance with the new needs and affections of students HTPS Zvečan on the other, will contribute to the sustainable solution of serious and accumulated problems in these areas in our country, region and globally. We emphasize the high level of student satisfaction with the subjects and their expectations in terms of acquiring new and innovating already existing knowledge, vocational training and continuous improvement for the protection and management of risks and threats from fire, through a series of organizational, educational forms and activities.

Annex 1: Student Evaluation – Questionnaire sample

Student Evaluation of the second-cycle study program Fire Protection (60 ECTS) in 2017/18 school year

The Fire Protection program is a second cycle program, which was first innovated at the Higher Technical Professional School in Zvečan. It was designed and accredited within the Erasmus Plus project “*Creating the Network of Knowledge Labs for Sustainable and Resilient Environments - KLABS*, 561675-EPP-1-2015-1-XK-EPPKA2-CBHE-JP)

Introduction. Please, complete the survey questionnaire on the evaluation of the Fire Protection study program, which you attended in the school year 2017/18 as a regular student. The survey is anonymous and the results of the survey will be used exclusively for formulating the guidelines for the improvement of the study program.

You need 15 minutes to complete the questionnaire. The form does not remember the answers and the questionnaire is filled in at once.

Rate from 1 to 5 (1 – the lowest score, 5 – the highest score).

1. Study program choosing

- a. Why did you enroll to the Fire Protection Study Program?

Free answer:

- b. Were the information on the study program accessible and quality (for instance, on admissions requirements, on the content and structure of the study program, etc.)?

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

- c. Did the study program meet your expectations?

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

2. Study program implementation

- a. Are the classes conducted on timely manner and according to the timetable?

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

- b. Are the teachers well prepared for the lectures?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

- c. Do the teachers have good communication skills and do they create pleasant working atmosphere?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

- d. Do the methods and forms of teaching correspond to the content of the program?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

- e. Do the number of lessons and study cycle correspond to the teaching content complexity?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

- f. Is acquisition the teaching material too demanding?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

- g. Do the forms of examination correspond to the content and cycle of the curriculum?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

- h. Is the evaluation method transparent and fair?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

- i. Was your work on the study program adequately mentored?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

- j. Assess the quality of the literature that was available and recommended to you?
Rate from 1 to 5. 1 - 2 - 3 - 4 - 5
Comment:

k. Was the teaching supported by interaction between students (such as discussions, group work, etc.)?

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

l. Was the teaching supported by practical forms of learning (such as field lectures, excursions, real context projects, etc.)?

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

m. Provide your suggestions for teaching process improvement.

2. Facilities and supporting infrastructure

a. Assess the quality of the facilities in which the study program is realized.

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

b. Assess the quality of the infrastructure that supports the realization of a study program (such as student service, library, IT support, on-line learning, etc.)

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

3. Study program and labor market

a. If you are employed, were you able to successfully coordinate the work and studies?

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

b. Assess the applicability of the acquired knowledge at the study program in practice.

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

c. Assess your preparedness for the international labor market after the study.

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:

d. Which area would you like to work on in practice?

The answer field:

4. General assessment of the study program

a. List the most important knowledge and skills you have gained by attending the study program. The answer field:

b. List your favorite courses.

There is a possibility of multiple answers:

- Fire dynamics
- Inspection, testing and maintenance of fire protection systems
- Design and maintenance of a fire alarm system
- Fire Protection re-engineering
- Estimation of damage, insurance and premiums
- Safe electrical installations with fire protection systems
- Risk management and risk assessment methods
- Emergency management

c. Would you recommend a study program to others? Why?

Yes and no. The answer field:

d. Assess the study program as a whole.

Rate from 1 to 5.

1 - 2 - 3 - 4 - 5

Comment:
