



Co-funded by the
Erasmus+ Programme
of the European Union

Project No: 585980-EPP-1-2017-1-DE-CBHE-JP

Training for Medical Education via Innovative e-Technology Analysis Report

**Student Pre-Course Questionnaire
and
Student Post-Course Questionnaire**

Table of Contents

1. Introduction	3
2. Results	4
2.1 Student Pre-Course Questionnaire	4
2.2 Student Post-Course Questionnaire	9
3. Conclusion	22

1. Introduction

The MediTec project will support and modernize the medical education in Jordan, Iraq, and Iran by establishing innovative training centers with immersive medical learning platform and realistic simulation models in order to improve the practical and soft skills for students in medical education in Jordan, Iraq, and Iran.

The project objectives are:

1. Establishing an innovative medical training center with Immersive Medical Learning Platform to train teachers and students on innovative medical technology
2. Training of trainers, staff and students on innovative technologies in EU universities
3. Adapting the training on innovative technology in teaching process
4. Enhancement of training-methodical complexes on bases of modernized training courses
5. Development and providing, training program, multimedia and materials for training on innovative technologies
6. Training of students in EU and in the center
7. Development of practical courses especially for this new learning environment.
8. Strengthening quality of the graduate students through visits and cooperation with the EU

The MediTec Network aims to open a wide range of opportunities:

1. To facilitate exchange of good practices between the members through the MediTec portal and twinning procedures in order to promote transfer of knowledge between its members;
2. To encourage the submission of common proposals and development of projects between the members of the network;
3. To assist in the establishment of MediTec best practices;

2. Results

2.1 Student Pre-Course Questionnaire

When people were asked about their feedback on the courses they have taken and their understanding and if it met their expectations, the answers were as follow:

- The level of the students included in this questionnaire, in equal percentage (30%) students of 2nd and 3rd year, (20%) of 4th year, in addition to (10%) from 5th and 6th year.

10 responses

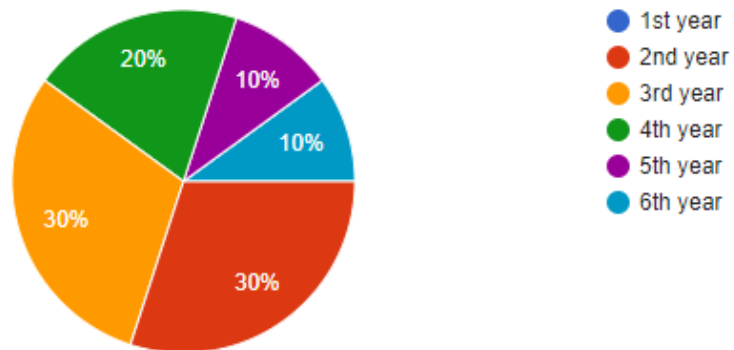


Figure 1: Level of student

- Secondly, for the gender of the surveyed people more than the half were males (70%) and (30%) were females as shown in the figure below.

10 responses

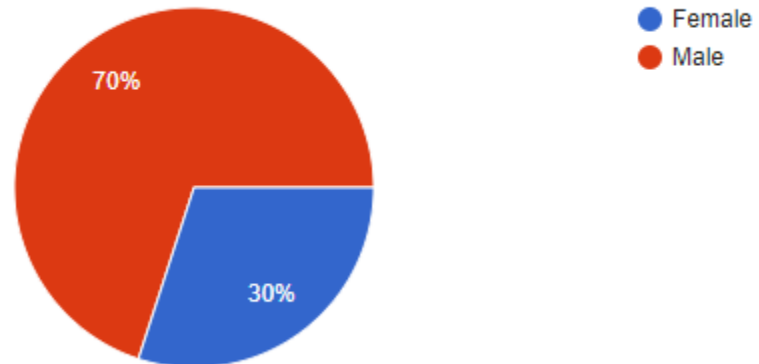


Figure 2: Gender

- As shown in figure 3, the percentage of students in each course, (20%) in AI in health care, (40%) in MediTec, (20%) in Medicine and (20%) in anatomy.

5 responses

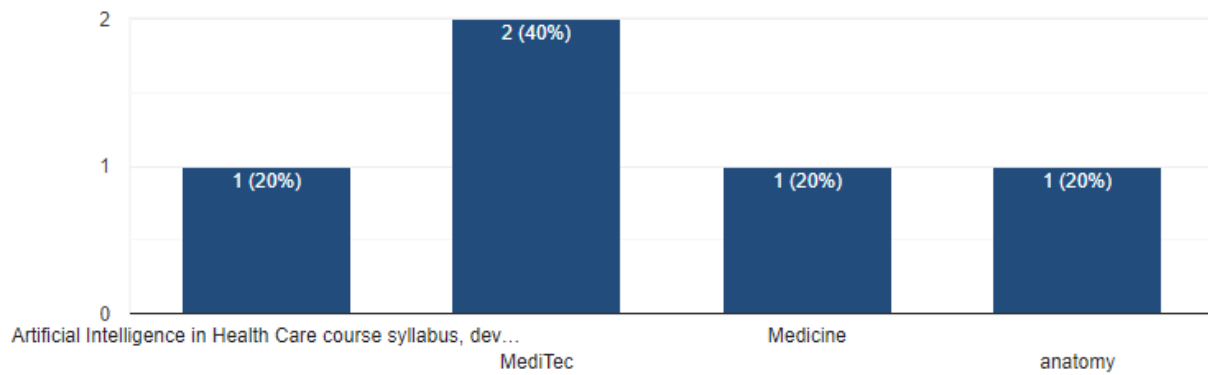


Figure 3: Course Name

- Regarding to their knowledge in the course, (10%) their opinion was excellent, half of the students (50%) who participate in the survey are satisfied and said it's very good, (30%) said it's good, (10%) was poor for them (Figure 4).

10 responses

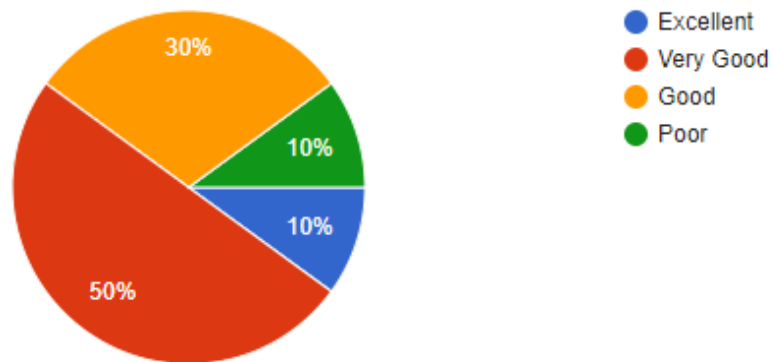


Figure 4: How would you rate your knowledge in this course?

- Majority of the students in survey (60%) believe it is a thriving and promising field to study, (30%) choose this course because they have some knowledge about the field and you want to enhance it and (10%) this is the only course that fits their schedule and they didn't have a choice.

10 responses



Figure 5: Why did you choose this course?

- As shown in figure 6, most of the surveyed people (70%) will benefit from taking this course substantially and on a high level and (30%) will gain some benefits but not on a very high level.

10 responses

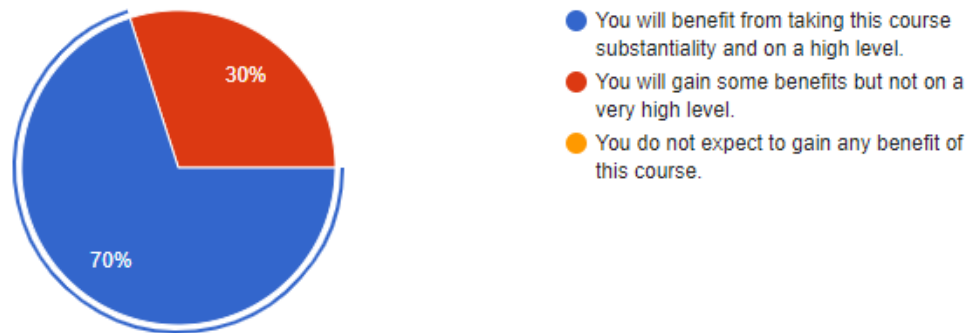


Figure 6: The expected benefits of taking this course can be evaluated as which of the followings?

- (20%) of the surveyed people had practical experience in the area of this course, in contrast (80%) don't (Figure 7).

10 responses

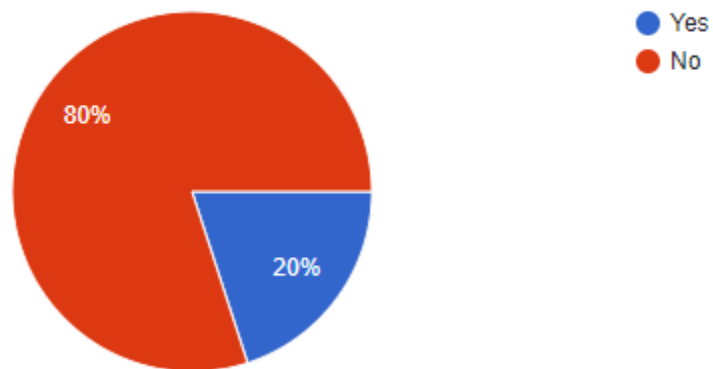


Figure 7: Have you had any practical experience in the area of this course?

- As shown in figure 8, (90%) strongly believe it is applicable in the industry and (10%) believe it is only applicable if some criteria are met and under some circumstances.

10 responses

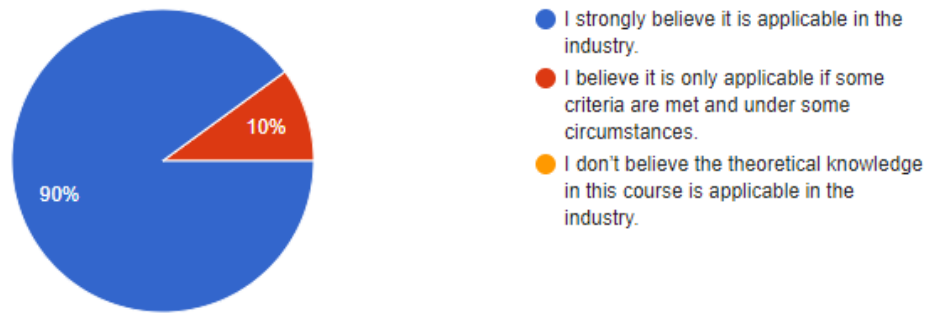


Figure 8: How much do you believe that the theoretical knowledge you gain through this course is applicable?

- When they asked about any other comments, suggestions, recommendations, and special requirements? The answer was: i hope that we will gain the best knowledge.

2.2 Student Post-Course Questionnaire

When people were asked about their feedback on the courses they have taken and their understanding and if it met their expectations. Also, they asked about the lecturers who introduced this course and their responses for both sections were as follow:

- Firstly, for the gender of the surveyed people more than the half were males (64.1%) and (35.9%) were females as shown in the figure below.

142 responses

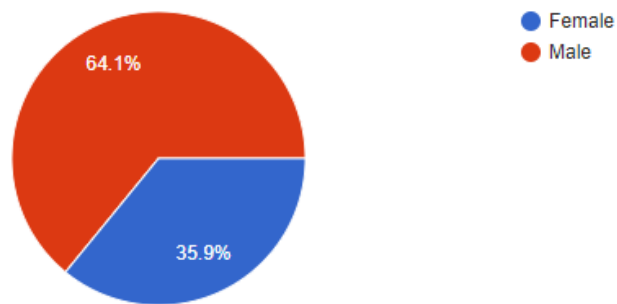


Figure 9: Gender

- As shown in figure 2, for the question if they gained knowledge most of the surveyed people (71.4%) answer that they fully applies the knowledge they gained, (20.7%) does rather apply , (4.3%) does rather not apply and (3.6%) does not apply at all.

140 responses

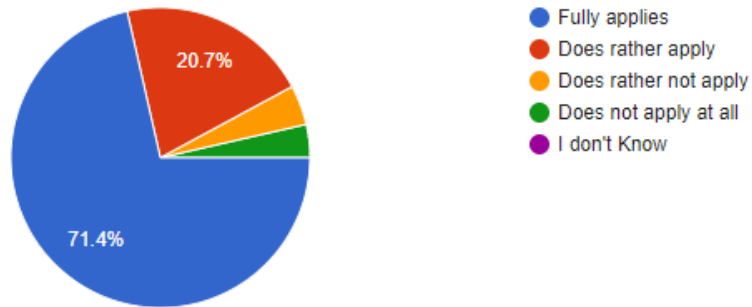


Figure 10: I've gained new knowledge

- Regarding if they have gained a more comprehensive understanding in this course. So, (67.4%) fully applies, (22.7%) does rather apply, (2.8%) does rather not apply, (6.4%) does not apply at all and (0.7%) don't know as shown in figure below (Figure 3).

141 responses

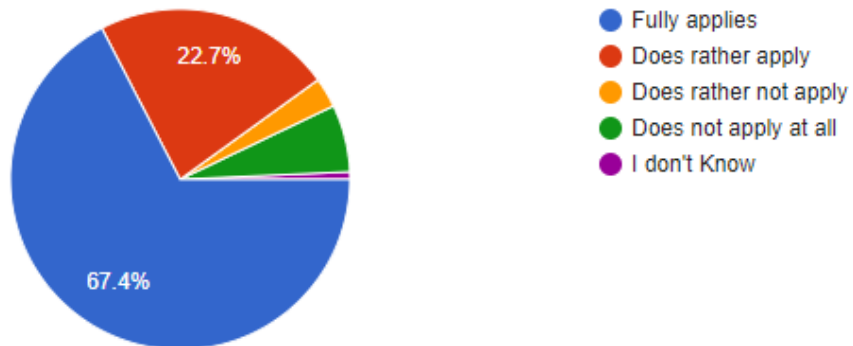


Figure 11: I have gained a more comprehensive understanding in this course

- For 140 responses on this question, (53.6%) the course content meet their expectations, where (33.6%) does rather apply, (3.6%) does rather not apply, (8.6%) does not apply at all and (0.7%) refers to 1 person don't know (Figure 4).

140 responses

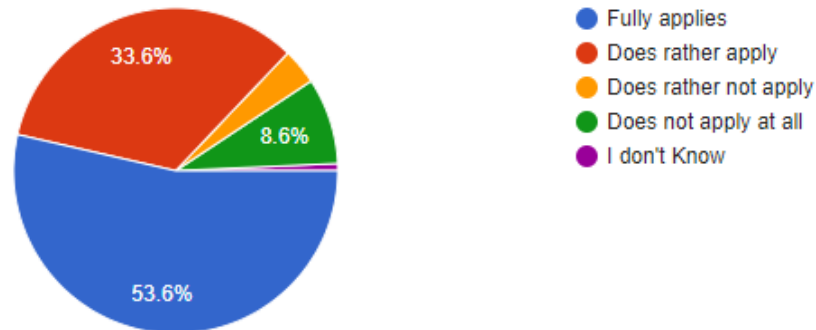


Figure 12: The course content met my expectation

- Interest is a powerful motivational process that energizes learning, guides academic and career trajectories, and is essential to academic success. In our survey (55.7%) their interest in the issues dealt with was enhanced while (30%) does rather apply, (4.3%) does rather not apply, (7.9%) does not apply at all and (2.1%) don't know (Figure 5).

140 responses

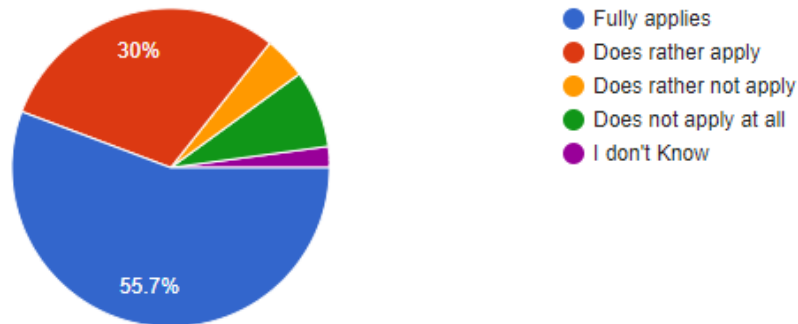


Figure 13: My interest of the issues dealt with was enhanced

- Teaching students to apply knowledge and skills to benefit others or serve the public good and to use these skills in their future careers is one exceptionally high impact method to foster these capabilities across the disciplines, a high percentage of the surveyed people (70.9%) believe that they learn skills and knowledge that will be useful for their careers in the future, (18.4%) does rather apply that the skills and knowledge

will be useful, (2.8%) does rather not apply, (5.7%) does not apply at all and (2.1%) don't know (Figure 6).

141 responses

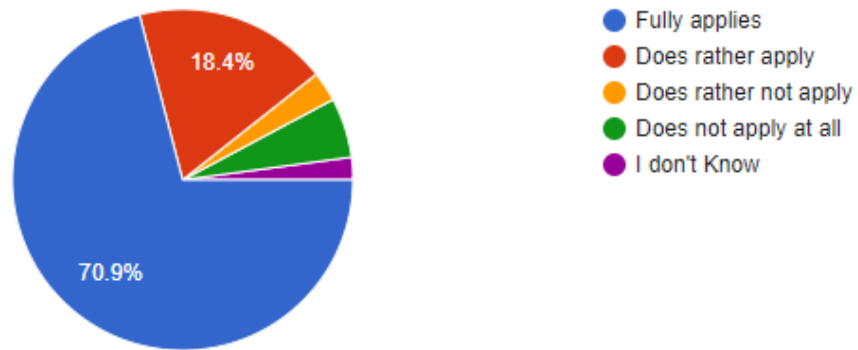


Figure 14: Knowledge and skills were taught will be useful for my career in the future

- Most of the surveyed people (67.4%) would like to participate at other/more teaching courses dealing with this topic, (20.6%) do does rather apply, while (2.1%) does rather not apply, (6.4%) does not apply at all and (3.5%) don't know (Figure 7).

141 responses

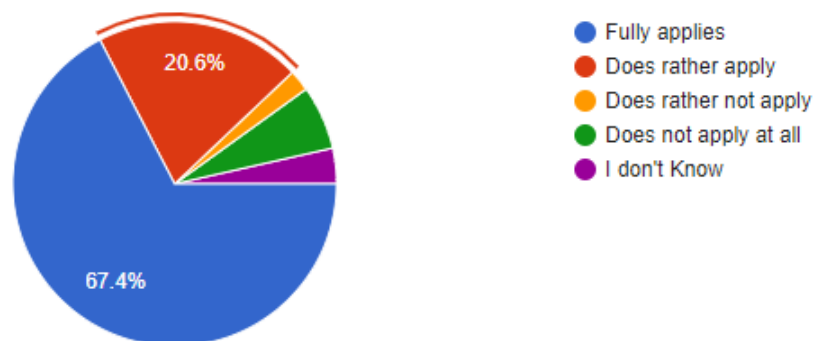


Figure 15: I would like to participate at other/more teaching courses dealing with this topic

- Depending on the survey, the majority of the surveyed people (72.9%) will recommend the course to their fellow students, (16.4%) does rather apply, while (2.9%) does rather not apply, (6.4%) does not apply at all and (3.5%) don't know. (Figure 8)

140 responses

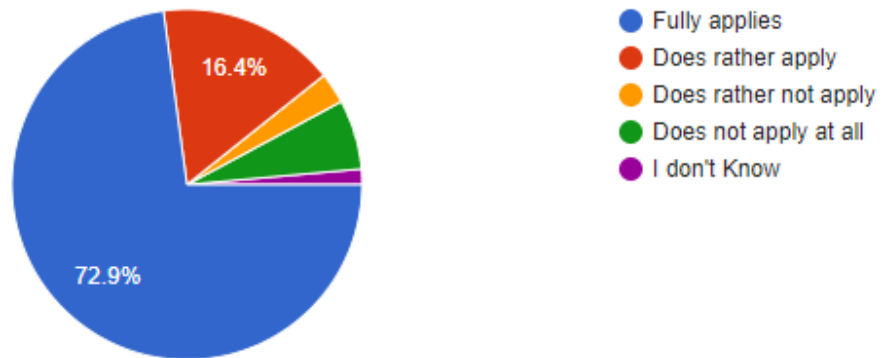


Figure 16: I would recommend this course to my fellow students

- According to figure 9, the majority of people (66.7%) are fully applies that the teacher is well prepared, (24.8%) does rather apply, while (2.1%) does rather not apply that the teacher is prepared and (6.4%) does not apply at all.

141 responses

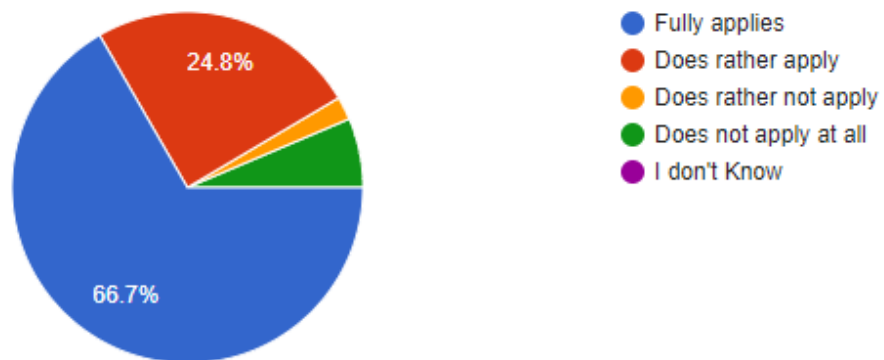


Figure 17: The teacher seemed to be well prepared

- A high percentage of the surveyed people (71.6%) thought the teacher seemed to be proficient in the field tackled by the course, (20.6%) also apply, while (0.7%) does rather not apply and (7.1%) are against.

141 responses

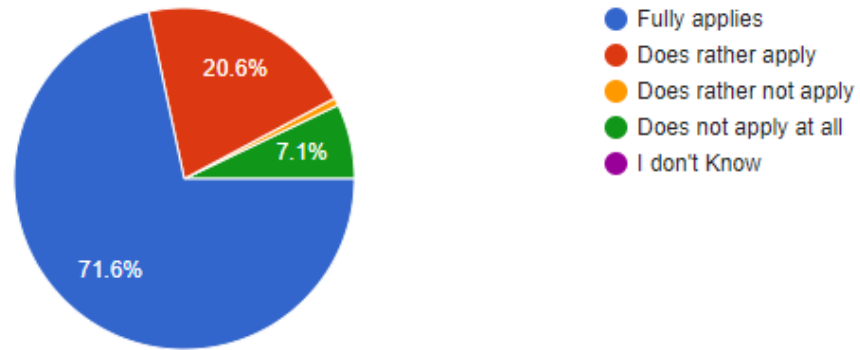


Figure 18: The teacher seemed to be proficient in the field tackled by the course

- As seen in figure 11, if the course content met the pre-announcement, (64.5%) fully applies, (25.5%) does rather apply, (3.5%) does rather not apply, (5%) does not apply at all and (1.4%) don't know.

141 responses

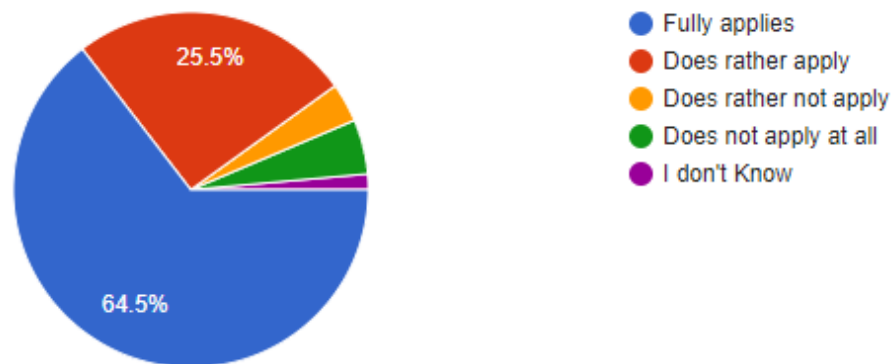


Figure 19: The course content met the pre- announcement

- The surveyed people were asked “The content was well and logically structured and a red thread was visible”, as shown in figure 12, (64.3%) fully applies that the content was well and logically structured, (22.9%) does rather apply, (4.3%) does rather not apply, (5.7%) does not apply at all and (2.9%) don't know.

140 responses

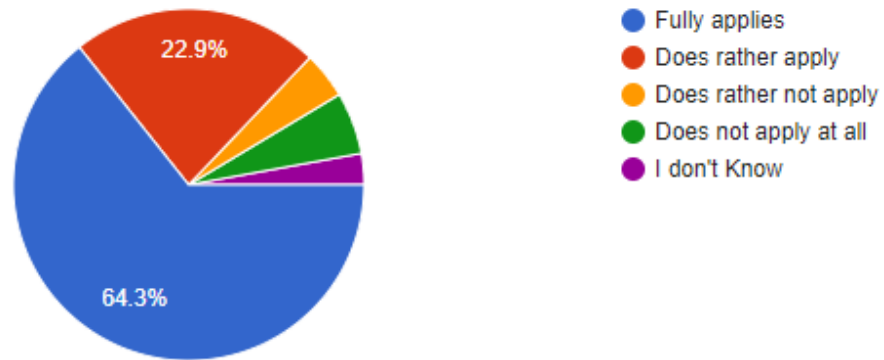


Figure 20: The content was well and logically structured and a red thread was visible

- People surveyed are completely in favor (65.7%) and in favor (22.9%) that the topic was explained in an understandable manner. On the other side, (5%) are against that the topic is understood and (6.4%) are totally against. (Figure 13)

140 responses

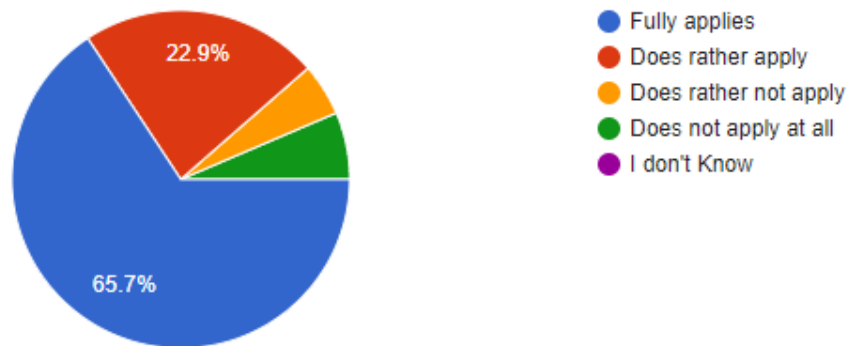


Figure 21: The topic was explained in an understandable manner

- Even though some people said that the topic is not explained in understandable manner, - as shown in figure 14- the majority of the surveyed people (58.9%) were agreed that the scope and the degree of difficulty of the course contents are appropriate, (27.7%) also rather apply, on the other hand, (5.7%) and (7.1%) are opposed and (0.7%) don't know.

141 responses

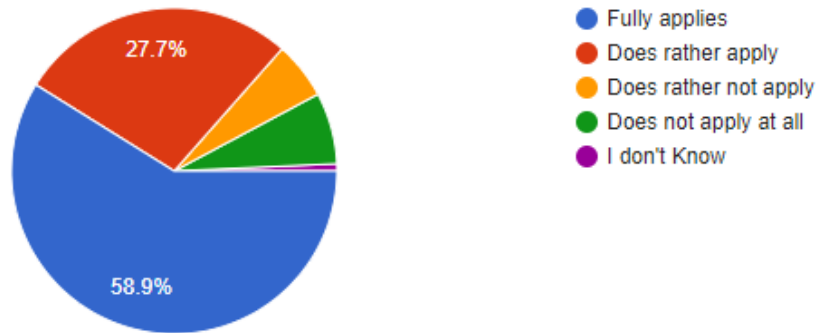


Figure 22: The scope and the degree of difficulty of the course contents are appropriate

- The rate of students that thought the material are well elaborated and useful are (65.2%) and also (22%) are in favor. Otherwise, (5%) are against that the topic is understood and (7.1%) are totally against and (0.7%) don't know. (Figure 15)

141 responses

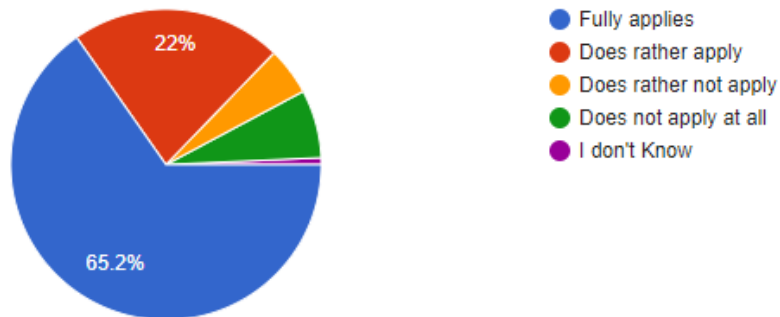


Figure 23: The teaching materials are well elaborated and useful for me

- They also asked, in case they rated "Does rather not apply" or "Does not apply at all" of above statement please briefly explain your opinion to help improving the course, and the answers were as following:
 - Knowledge and skills were taught may not benefit students for their future career (too many details)
 - No
 - really it was helpful

- Just stop stuffing useless things in the course
 - Redo everything
 - To learn medical subjects
 - We have to get more of these lectures
 - Forgetting is an issue
 - Not good enough
 - It's great and doesn't need any improvements
 - The only issue was the insufficient amount of time, anatomy & Physiology are essential topics & students need more time to cover them in an enough manner
 - improve some weak point
 - The teachers aren't prepared well and some of them even don't know how to teach us properly so we need better teacher, but to be honest there are few teachers are very good.
 - Doctors aren't even doctors
 - The lecture are short
 - The explaining could have been better
 - Kinda hard to study everything
 - Not enough practical sessions
 - It's great and doesn't need any improvements
 - The only issue was the insufficient amount of time, anatomy & Physiology are essential topics & students need more time to cover them in an enough manner
 - Body's complete anatomy for 1 semester???
- In addition, we get their responses on "What did you like about the course?" question, and they answered:
 - Organized and informative
 - Too good
 - It was very informative
 - Everything
 - Almost everything
 - The fact that we were able to experience clinical exposure at an early stage so that we would have a broader idea of what we should expect during clinical rotations
 - how to examine and how to deal with patient
 - Develops skills in an efficient and beneficial way
 - We could improve our knowledge and skills earlier than we were expecting
 - first we didn't know what we will gain from knowing anatomy but then the teacher explained in every lecture that for example when a patient arrives and

have problems in this part of the body according to anatomy and physiology we will think about ... that's what i like to think more like a doctor!

- Everything! best one yet
- The efficiency of the doctors and the experience in general
- All the new information provided was excellent and very useful
- The teachers were very well prepared
- Very practical information was given
- Very practical information was given and the course was impressive
- Improved my knowledge and skills
- Actually, the teacher inspired me and make me very interested in the course because he was full of knowledge in the material.
- The course was amaizing
- The glasses were weird and a genius invention, and the teachers were motivating the students to learn more
- All things
- Very informative
- Our vision for clinical life
- It was practice
- Anatomy and physiology of the heart
- I liked the knowledge I gained which is obviously helped by the competency of the lecturers and their understanding of the material
- Learning about parts of the human body i never knew existed!
- It was great seeing the clinical side of the medicine in early stages
- Learn more information
- Perfect
- I liked the things I've learned early about clinical life it was really beneficial
- Everything was perfect and very beneficial
- Too informative
- 80%
- The content of it.
- It was beneficial and useful we get benefit alot
- I liked that we learned more about forensic medicine
- It was very informative and I gained a lot of benefit from it
- It was very beneficial and I gained a lot of knowledge from it
- It was very eye opening and exciting to be a part of
- The oral related subject
- Absolutely nothing
- Improvement of information
- The knowledge

- The detailed structure
 - Various types of pathology and etiology
 - It is very well organized and you will understand things very easily
 - The practical sessions
 - because it's so important to see the clinical case in real not just studying and memorizing so as you communicate with a real patients you will not forget easily
 - The course was perfect specially the way of explaining was very smoothly
 - The doctors were very helpful
 - The manikins
 - Everything was very good
 - The simplified subjects were very understandable
 - The idea
 - The explanation with each step was really helpful and understanding
 - Perfect Course
 - Of course it's an interesting course for future and for basic
 - Theory lectures were very understandable
 - of course you feel like a doctor and you detect new things in medicine as you examine the patient
 - about course I'd like because will make you an ethical and fair doctor
 - I like how practical and essential skills were taught in more of a interactive-group matter.
 - I like how the anatomy was explained
 - The hand skills I acquired.
 - The doctors were helpful regarding exams
 - I've gained the knowledge that i was seeking
 - The subjects related to my section
 - It encouraged me to become a successful communicator with patients
 - I learned that both anatomy & Physiology are essential material for being successful future doctor
 - The interaction with an actual model
 - Everything's brilliant
- To accurately determine areas for improvement, the students asked about" What didn't you like? What could be improved?" , and answers was as mentioned below:
 - Nothing
 - The time of presenting lectures
 - Too long
 - Nothing
 - Nothing its perfect

- idk it seems to be perfect for me
- We took nervous system clinically before taking it theoretical , i would rather take it theoretically first
- Honestly the one thing is , the course needs to be done more often
- The course was perfect to me
- It's very good so far
- The session was perfect so far
- Increase the number of participants so more we get more educated medical staff
- No thing
- We were a lot of students in the same session
- A lot of students in the same session
- There's no need for a teacher to tell the students speak in English while practicing to take the history
- There's nothing to be improved, the course itself is difficult
- Study plan
- I didn't like the course this way, maybe it would be better if taken in practical sessions. Otherwise the teachers and the topics were good
- It was a little bit hard because we didn't have enough basic information
- The way teaching
- The time of presenting lectures
- It was a clinical course but we're taking it online because of Covid
- Nothing everything was perfect
- I need more to improve
- The way the teachers explain and the structure of teaching is not good enough.
- I would like to bring more manikins so every student can use them
- I didn't like that we take all the course as theory lectures
- Teaching 90% useless things in the course
- Nothing really
- I didn't like anything, this course is beyond improving
- Dentistry subjects
- Too much information in short time, longer time needed
- Not enough room
- Everything was almost perfect
- I would love to have more clinical anatomy rather than theory although was excellent in theory
- Short time
- Nothing can't be better in my opinion
- Everything was perfect
- More time if we had was better for more cases
- Too long sometimes
- No practice
- We were a lot students with few manikins

- Poor in clinical need more clinical
 - I like the organizers to be more serious about the course.
 - Huge number of students.
 - Quality of manikins
 - The one-sidedness of the only having lectures be explained.
 - I almost liked everything about it
 - It's too much
 - The time was not completely suitable, we wanted more time to learn more clinical examination knowledge
 - Depend on text books not on power point presentations, or at least explain them using the marker & white board, provide enough time for lectures
 - Lack of time to cover all lectures
 - More histology and CT sections
 - In my opinion if we had distributed the body's anatomy over the course of 2 semesters it would've been much better
- To get overall feedback, last question was "Please grade the course in general – which mark would you give?, the majority of surveyed people (60.3%) the course was very good for them, (27%) said it is good, (6.4%) in their opinion it is ok and (6.4%) it was insufficient for them. (Figure 16)

141 responses

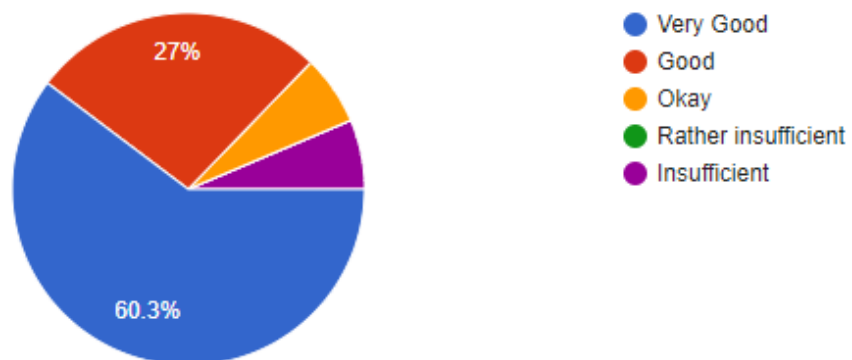


Figure 24: Please grade the course in general – which mark would you give?

3. Conclusion

The survey results show that there is a very high favor between students, and they will recommend it to fellow students in addition they give some recommendations to improve the course.