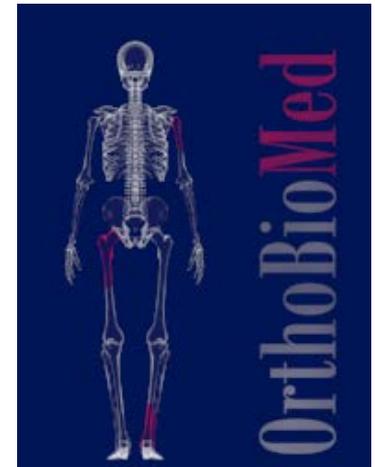




Lifelong
Learning



FIELD TRIAL RESULTS

Project 2013-1-BG1-LEO05-08711

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Pilot test

1. Pilot test
2. Description of the students
3. Web evaluation (Results of the survey)
4. Contents evaluation (Results of the survey)
5. Student grades
6. Student certificates
7. Conclusions

Pilot test

Characteristics of the students	<ul style="list-style-type: none"> Residents in orthopaedics and orthopaedic surgeons Engineers
Total size	62 students of the filed trial (45 Fill the evaluation questionnaire->Results)
Description	Participant entities: <ul style="list-style-type: none"> TECHNICAL UNIVERSITY OF SOFIA MEDICAL UNIVERSITY PLOVDIV DEPARTMENT OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY OF UNIVERSITY OF THESSALIA
Country Context	Bulgaria and Greece
Temporal Context	June - September 2015 Teaching hours: 40 hours
Data collection (Evaluation questionnaire)	Auto-fulfilled web questionnaire

Pilot test calendar

Osteosynthesis for Surgical Management of Fractures for Orthopedic Surgeons and Biomedical Engineers

JUNE						
L	M	X	J	V	S	D
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

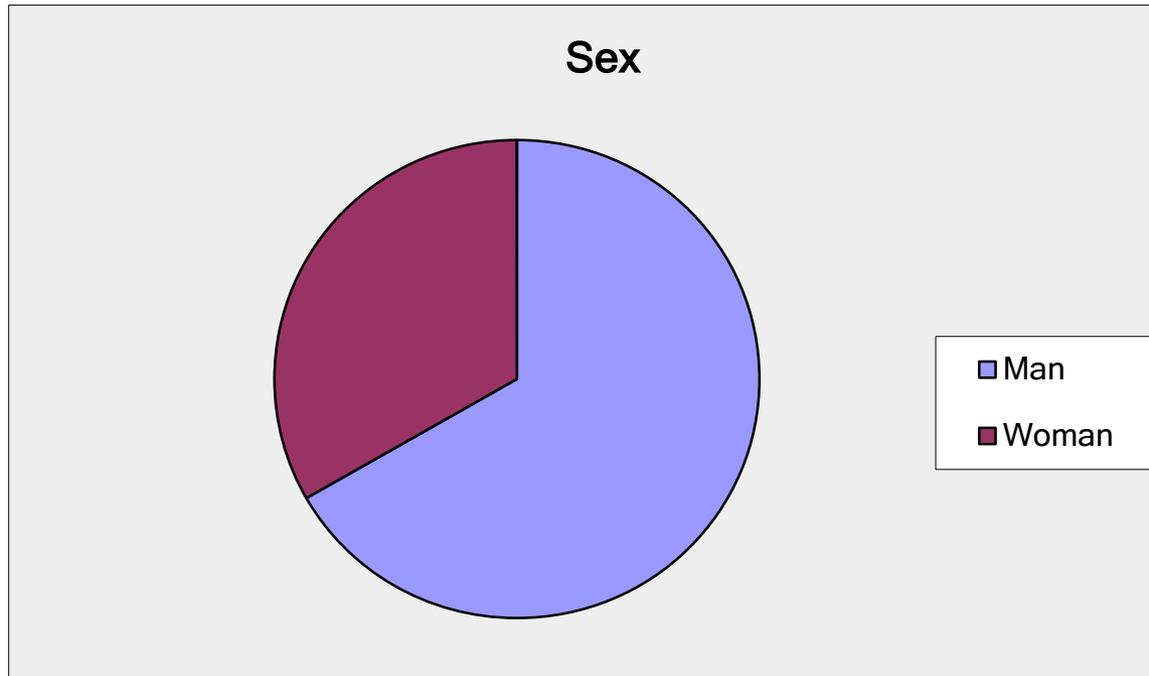
JULY						
L	M	X	J	V	S	D
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST						
L	M	X	J	V	S	D
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SEPTEMBER						
L	M	X	J	V	S	D
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

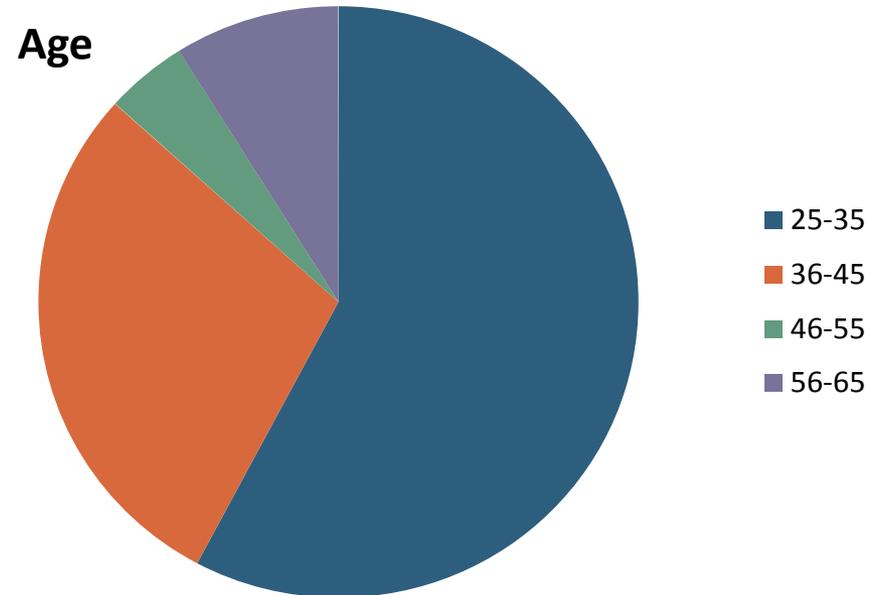
-  SECTION "Before You Begin"
-  MODULE 6 PRINCIPLES OF SURGICAL TREATMENT OF FRACTURES
-  MODULE 1 BIOMECHANICAL ANALYSIS OF BONE IN TERMS OF ITS STRUCTURE
-  MODULE 7 ERRORS IN OSTEOSYNTHESIS
-  MODULE 2 BIOMECHANICAL FRACTURE STUDY
-  MODULE 8 NEW TENDENCIES IN ORTHOPAEDIC SURGERY AND TRAUMATOLOGY
-  MODULE 3 SKELETAL ADAPTATION TO FUNCTIONAL STIMULI
-  MODULE 9 PRACTICE
-  MODULE 4 ORTHOPAEDIC FRACTURE REPAIR SYSTEMS
-  Final Exam
-  MODULE 5 SURGICAL FRACTURE REPAIR SYSTEMS
-  NON-ACADEMIC DAY

Description of the students



Male	66,7%
Female	33,3%

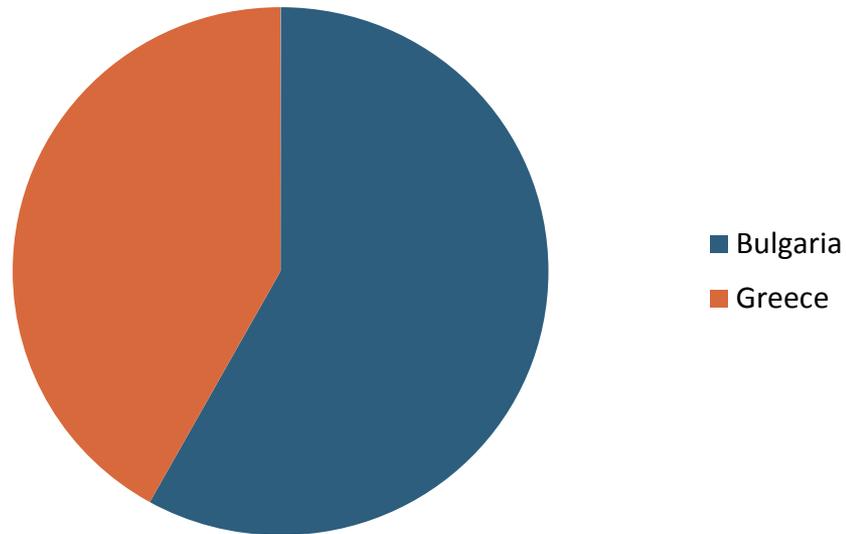
Description of the students



25-35	57,8%
36-45	28,9%
46-55	4,4%
56-65	8,9%

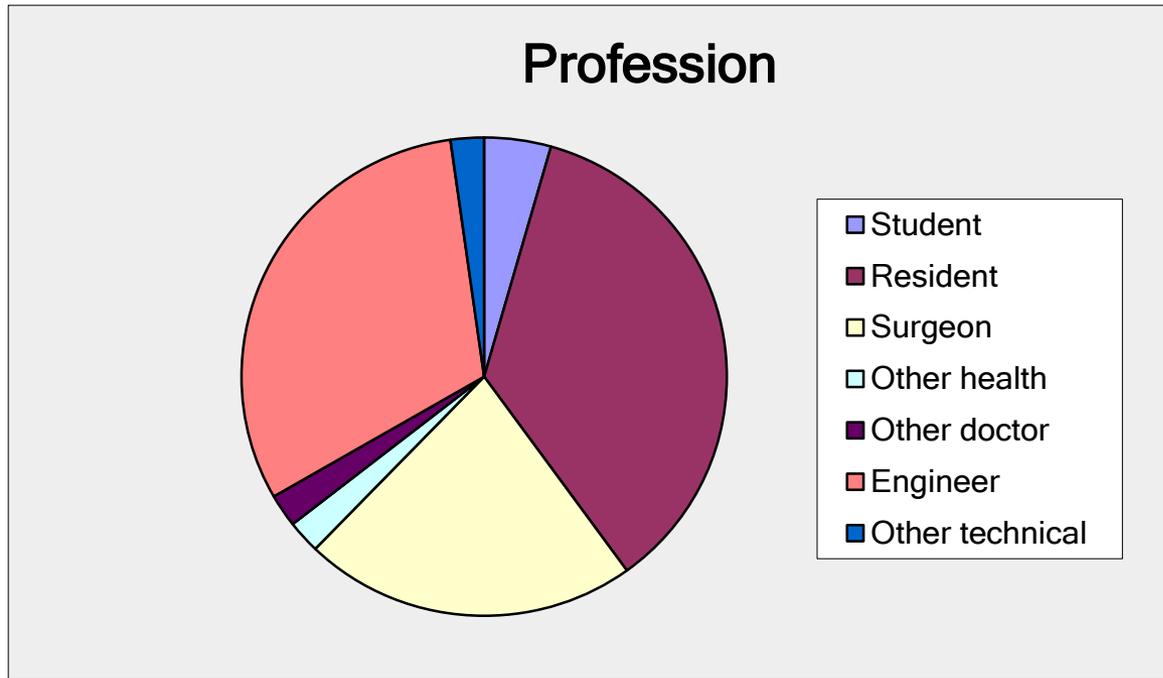
Description of the students

Country



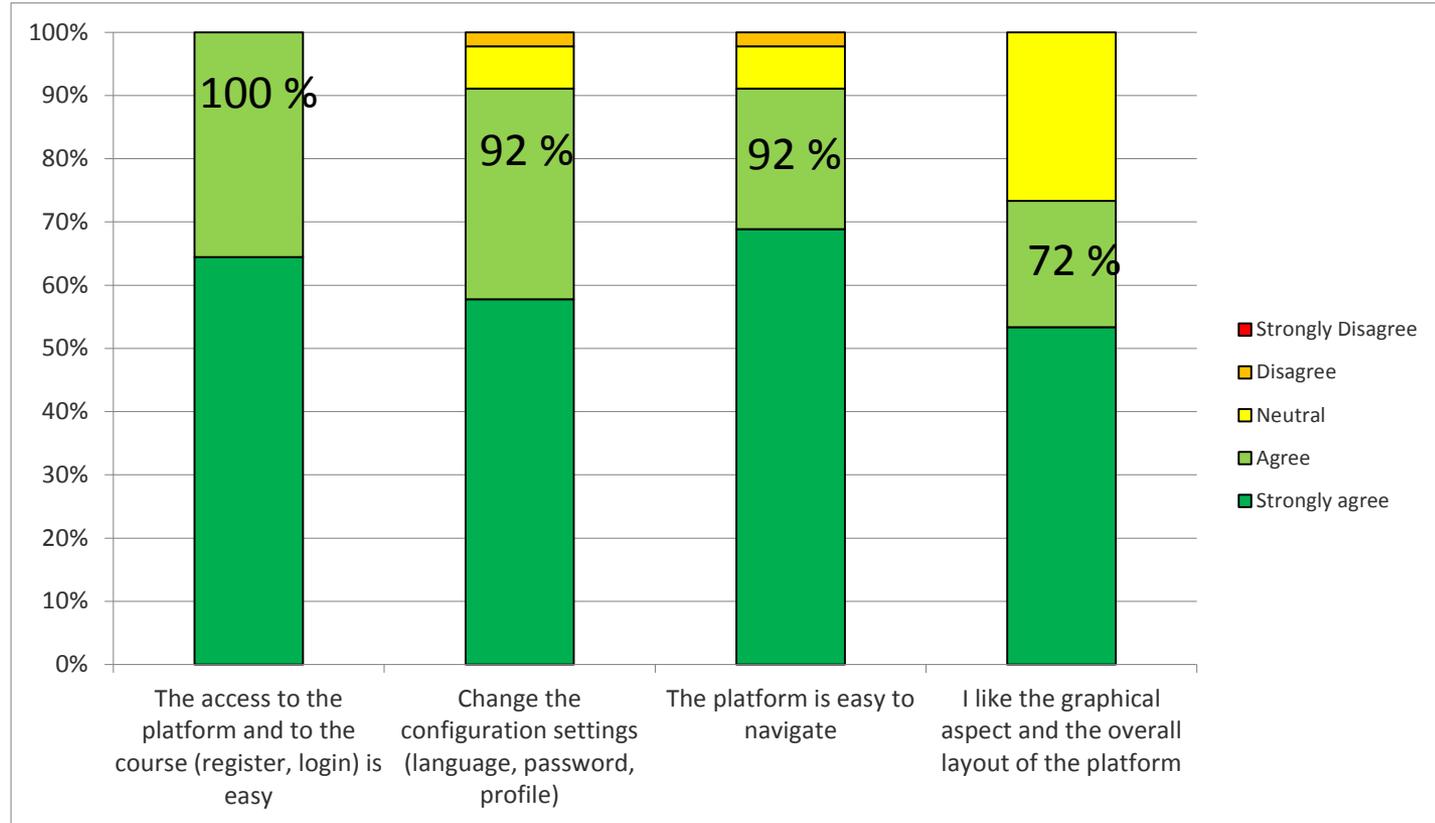
Bulgaria	58,1%
Greece	41,9%

Description of the students



Student	4,44%
Resident	35,56%
Surgeon	22,22%
Other health	2,22%
Other doctor	2,22%
Engineer	31,11%
Other technical	2,22%

Web course evaluation



Answer Options	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The access to the platform and to the course (register, login) is easy	64,4%	35,6%	0,0%	0,0%	0,0%
Change the configuration settings (language, password, profile)	57,8%	33,3%	6,7%	2,2%	0,0%
The platform is easy to navigate	68,9%	22,2%	6,7%	2,2%	0,0%
I like the graphical aspect and the overall layout of the platform	53,3%	20,0%	26,7%	0,0%	0,0%

Web course evaluation

POSITIVE ASPECTS

- Well structured
- There are quick links and is easy to orient.
- Easy learning
- Easy-to-use platform
- Easy to navigate and to read the courses.
- Accessibility
- It has everything needed : Modules, news, evaluations, messages...
- User-friendly
- Very didactic

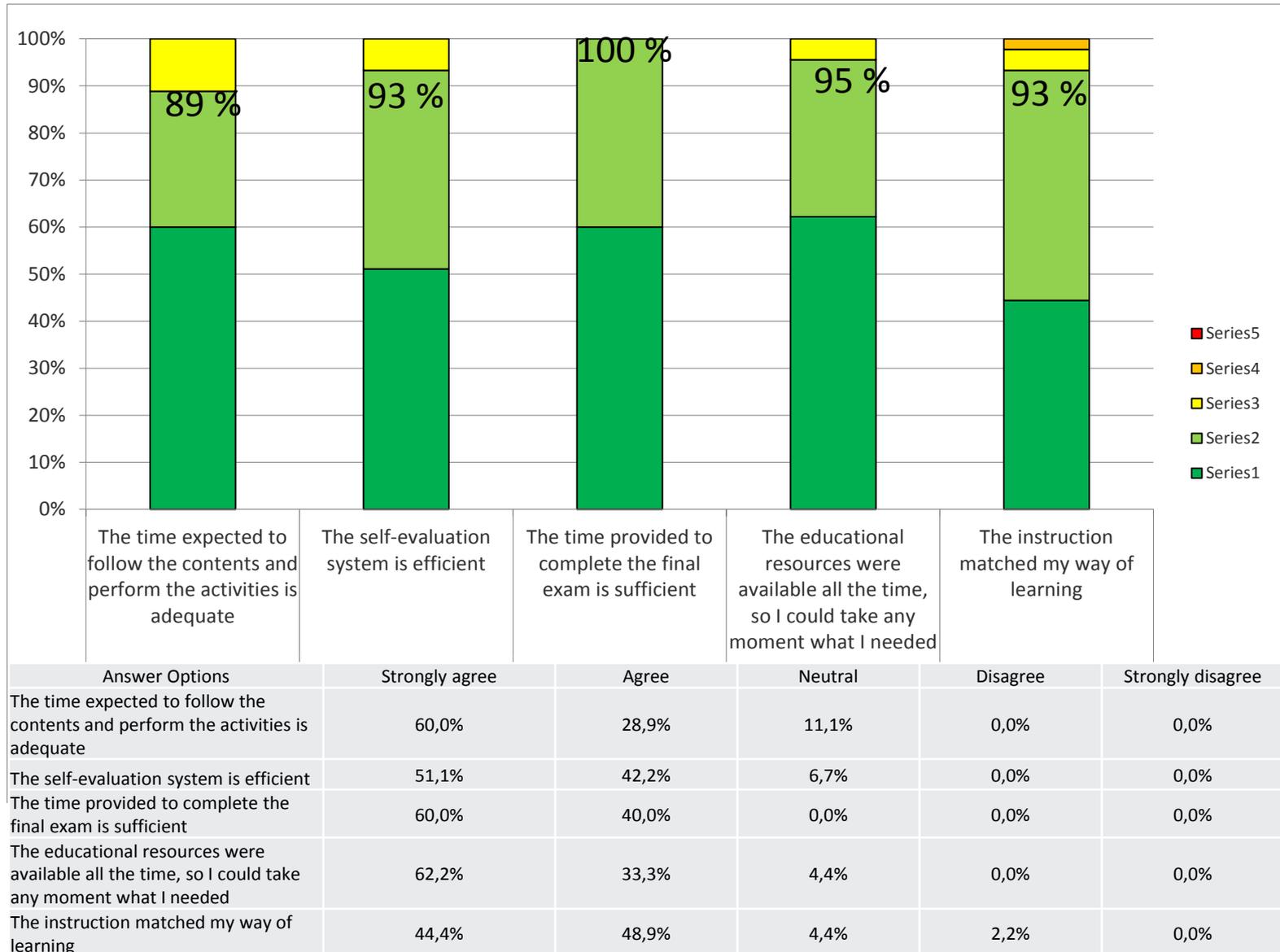
NEGATIVE ASPECTS

- Too much information
- More pictures, videos etc... would make it more interesting.

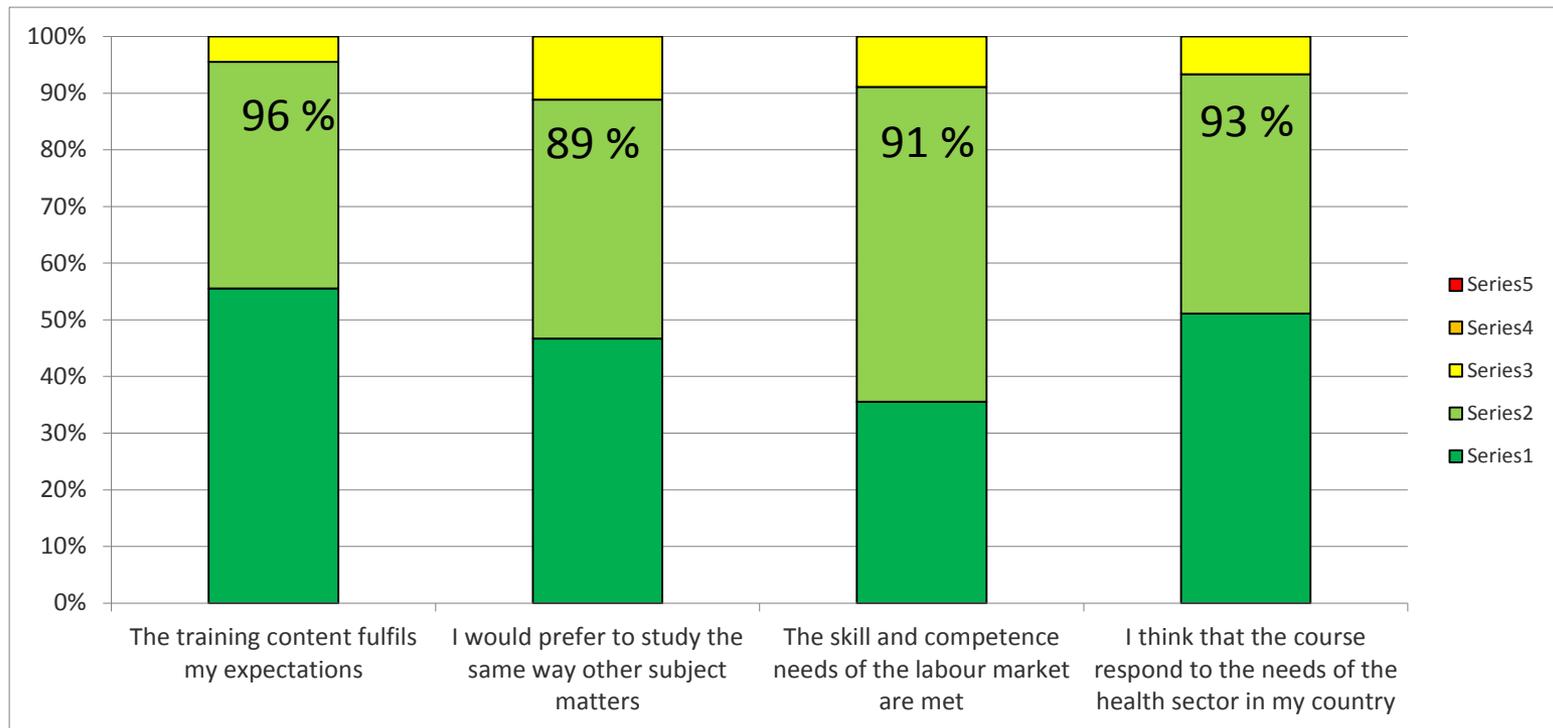
Contents evaluation



Contents evaluation

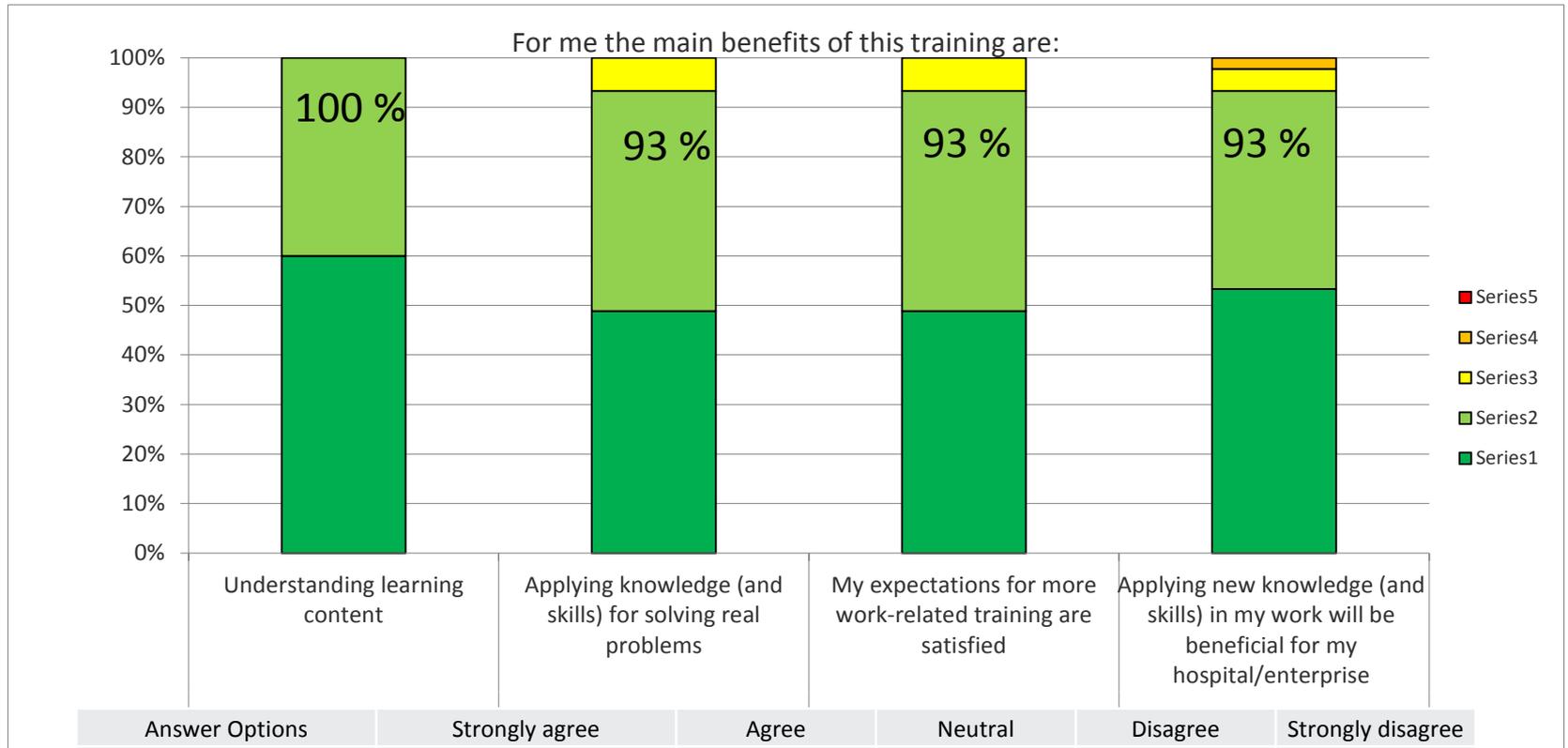


Contents evaluation



Answer Options	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The training content fulfils my expectations	55,6%	40,0%	4,4%	0,0%	0,0%
I would prefer to study the same way other subject matters	46,7%	42,2%	11,1%	0,0%	0,0%
The skill and competence needs of the labour market are met	35,6%	55,6%	8,9%	0,0%	0,0%
I think that the course respond to the needs of the health sector in my country	51,1%	42,2%	6,7%	0,0%	0,0%

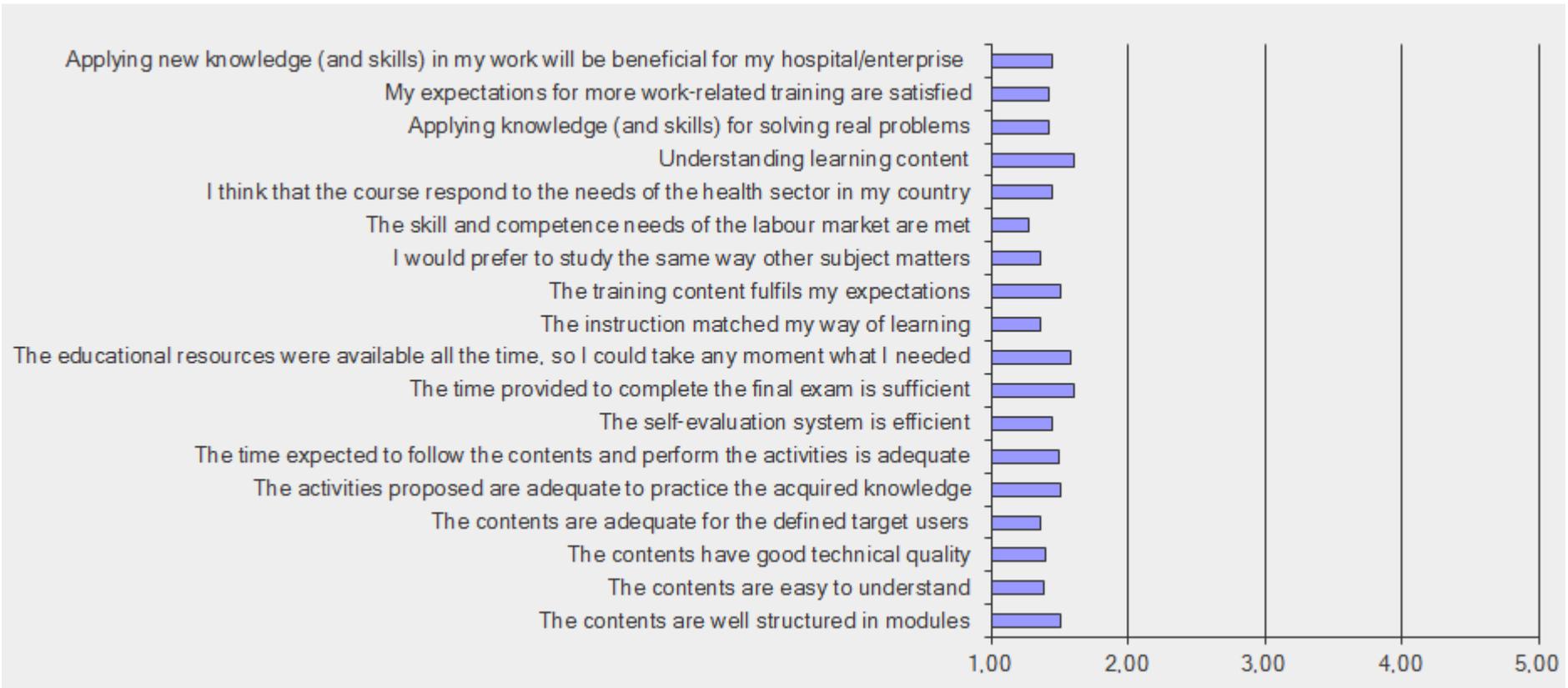
Contents evaluation



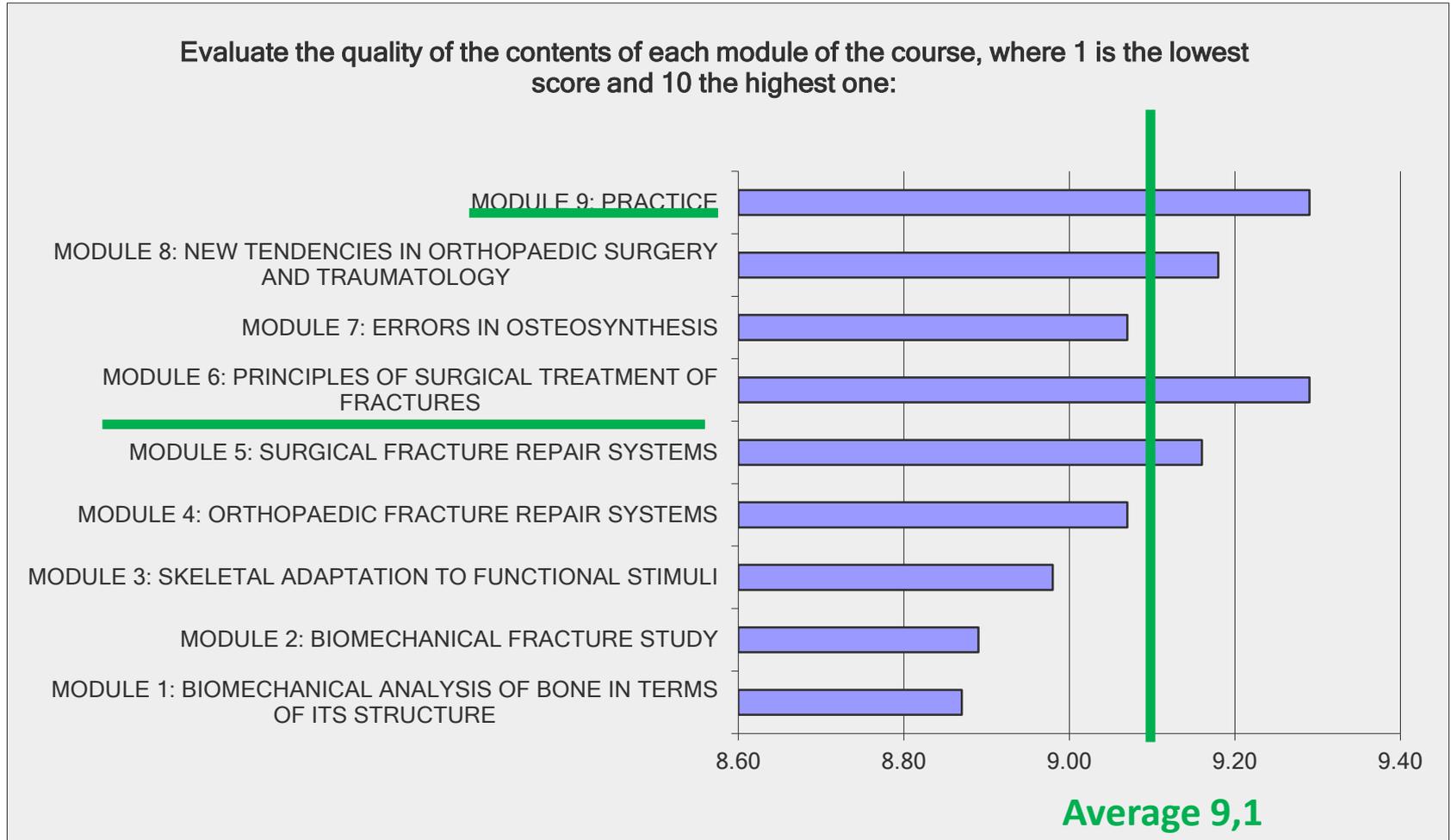
Answer Options	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
Understanding learning content	60,0%	40,0%	0,0%	0,0%	0,0%
Applying knowledge (and skills) for solving real problems	48,9%	44,4%	6,7%	0,0%	0,0%
My expectations for more work-related training are satisfied	48,9%	44,4%	6,7%	0,0%	0,0%
Applying new knowledge (and skills) in my work will be beneficial for my hospital/enterprise	53,3%	40,0%	4,4%	2,2%	0,0%

Contents evaluation

**Rate the following aspects, about the contents and the activities
(1 = Strongly Agree --- 5 = Strongly Disagree)**



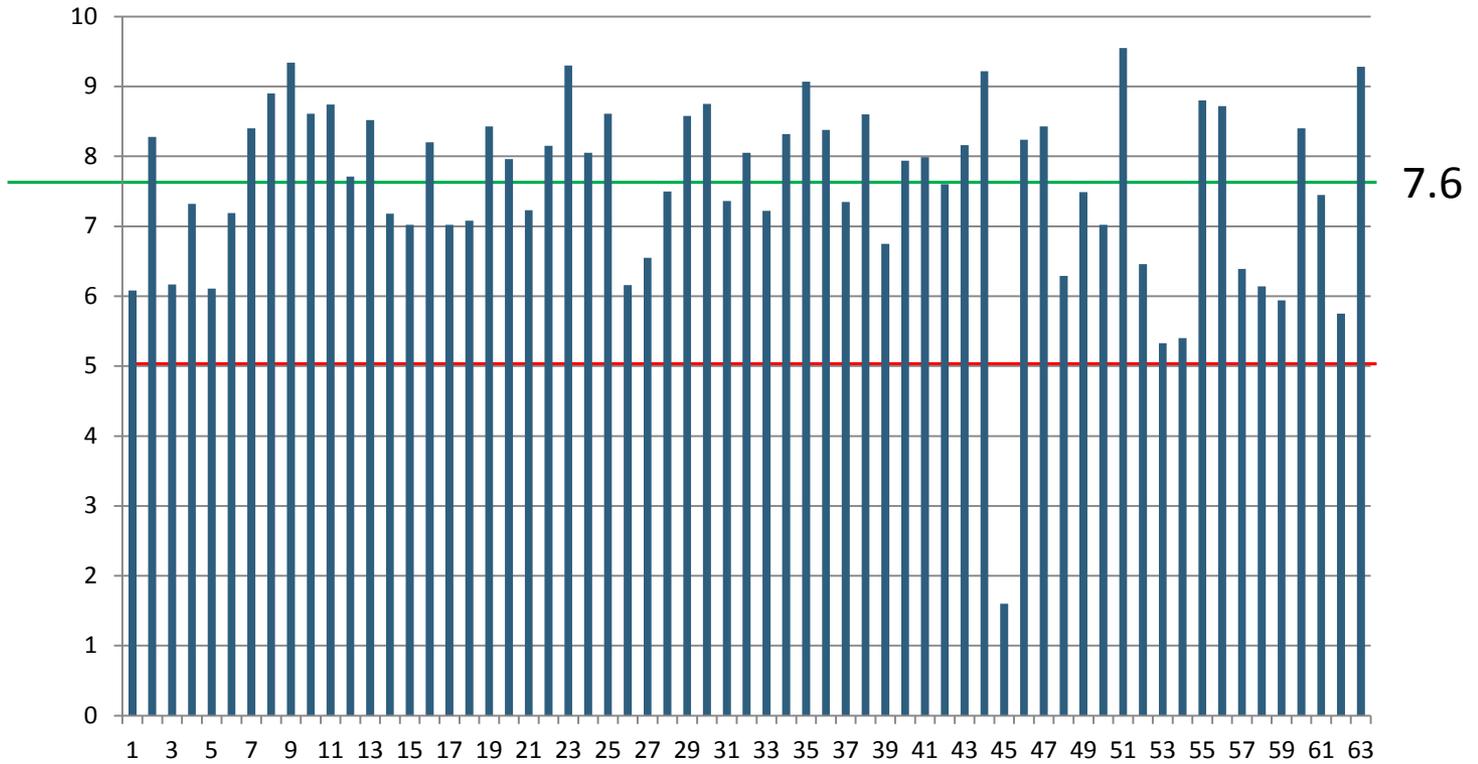
Contents evaluation



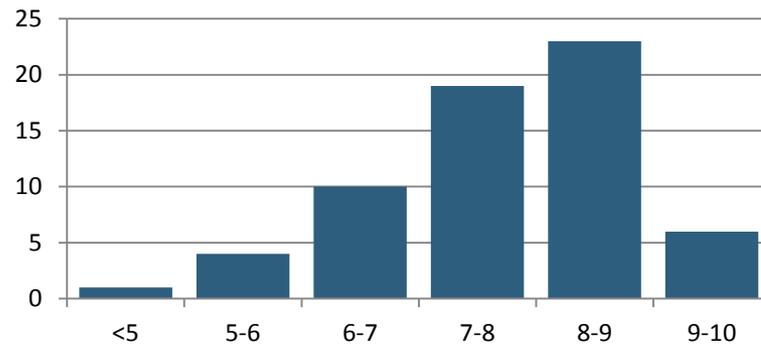
GRADING SYSTEM:

- The 60% of the global grade corresponds to the result of the final exam.
- The 40% remaining corresponds to the score obtained doing the 9 modules.
 - Activities : 20 %
 - Self-evaluation and Questions : 20 %

Grades



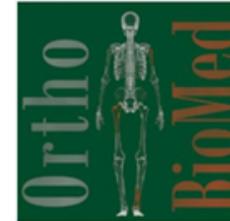
Grade	Number of students
<5	1
5-6	4
6-7	10
7-8	19
8-9	23
9-10	6



Student certificate



Lifelong
Learning
Programme



The Biomechanics Institute of Valencia (IBV), considering that:

has participated in the validation process of the on-line course

Osteosynthesis for Surgical Management of Fractures for Orthopedic Surgeons and Biomedical Engineers

organized by the ORTHOBIOMED Project Consortium held from June 2015 to September 2015, corresponding to a total of 4 ECTS,

issues the present

Certificate of Completion

and for the record for the appropriate purposes, signs it in Valencia, September 28th, 2015.

Signed: **Javier Sánchez**
Biomechanics Institute of Valencia
(IBV) Director



INSTITUTO DE
BIOMECÁNICA
DE VALENCIA



Orthopaedic Surgery
& Musculoskeletal Trauma
Faculty of Medicine, University of Thessalia

Conclusions

- Good rating of the web and structure of the course (89 % agree), better than the pilot test (78% agree)
- Very good rating of the course contents (9,1/10), better than the pilot test (8,8/10)
- Good grades of the students (7.6/10)
- Overall good results of the field trial



INSTITUTO DE
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DE VALENCIA



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