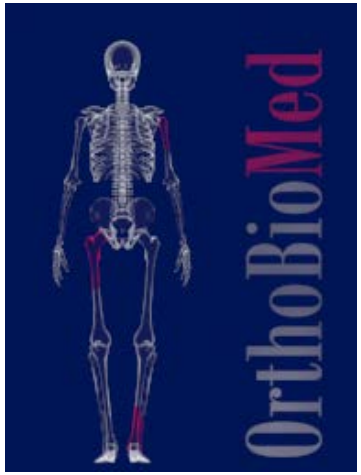
Lifelong Learning



PILOT TEST RESULTS
Project 2013-1-BG1-LEO05-08711

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	• Residents in orthopaedics and orthopaedic surgeons • Engineers
Total size	21 students of the Pilot Test (19 Fill the evaluation questionnaire->Results)
Description	Participant entities: • TECHNICAL UNIVERSITY OF SOFIA • MEDICAL UNIVERSITY PLOVDIV • DEPARTMENT OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY OF UNIVERSITY OF THESSALIA
Country Context	Bulgaria and Greece
Temporal Context	January - April 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

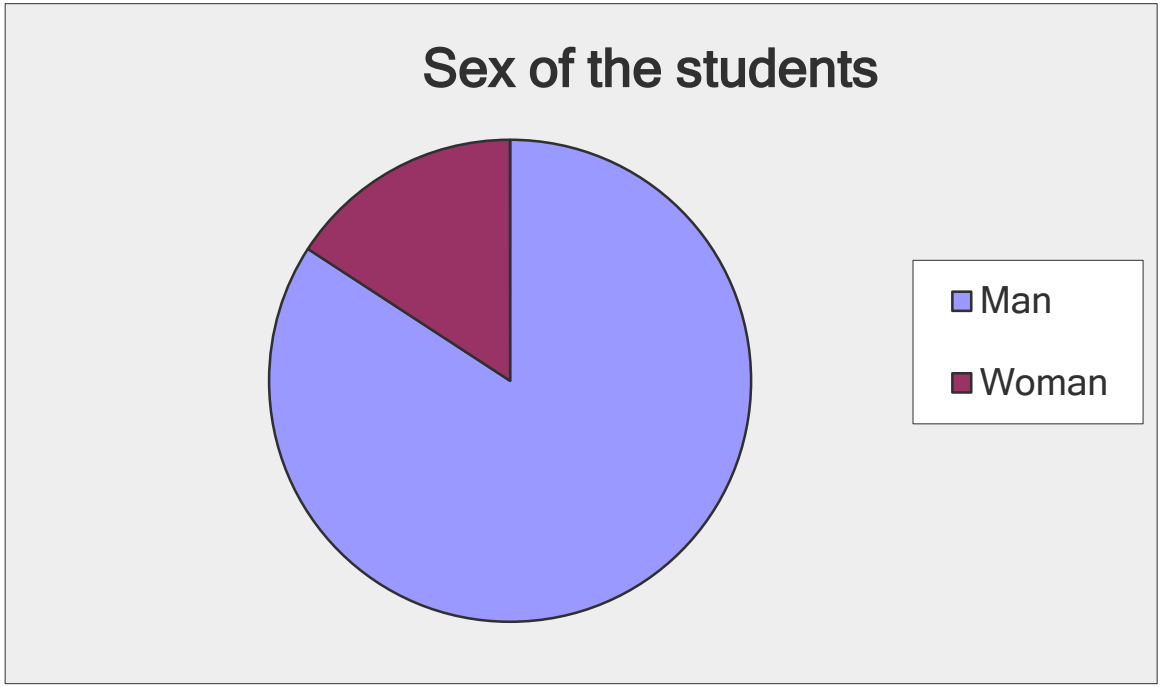
JANUARY						
L	M	X	J	V	S	D
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

FEBRUARY						
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	

MARCH						
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					

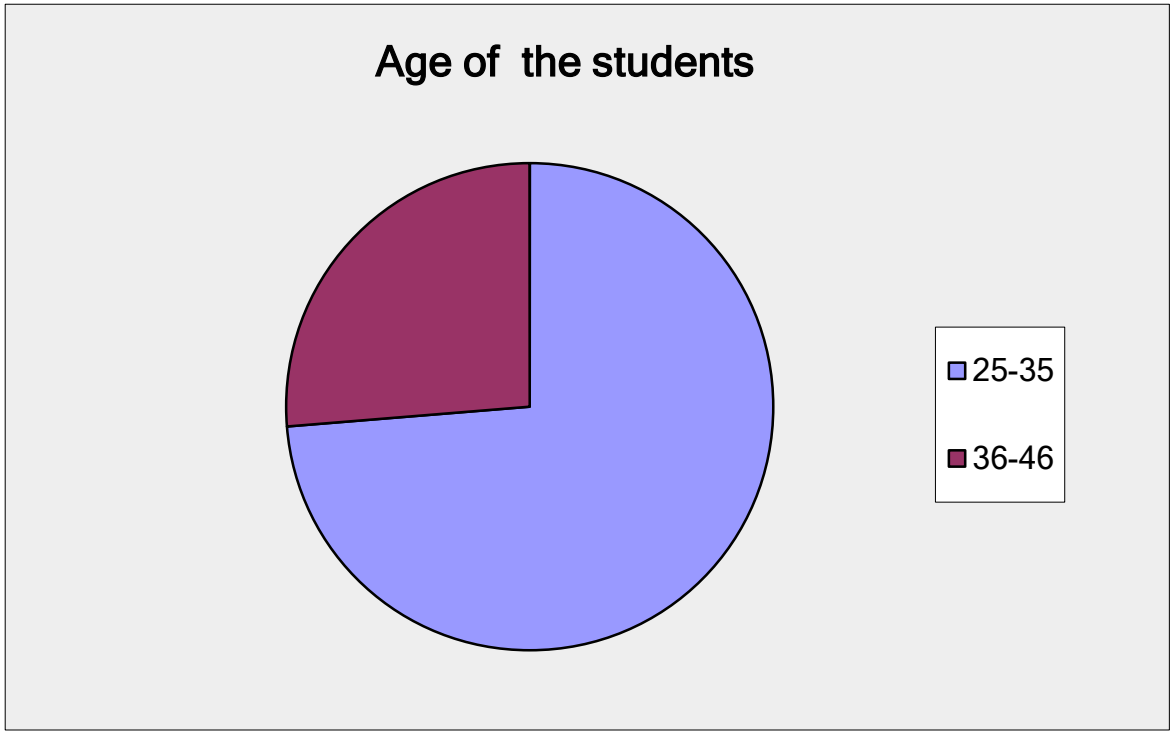
- SECTION "Before You Begin"
- MODULE 1 **BIOMECHANICAL ANALYSIS OF BONE IN TERMS OF ITS STRUCTURE**
- MODULE 2 **BIOMECHANICAL FRACTURE STUDY**
- MODULE 3 **SKELETAL ADAPTATION TO FUNCTIONAL STIMULI**
- MODULE 4 **ORTHOPAEDIC FRACTURE REPAIR SYSTEMS**
- MODULE 5 **SURGICAL FRACTURE REPAIR SYSTEMS**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

Description of the students



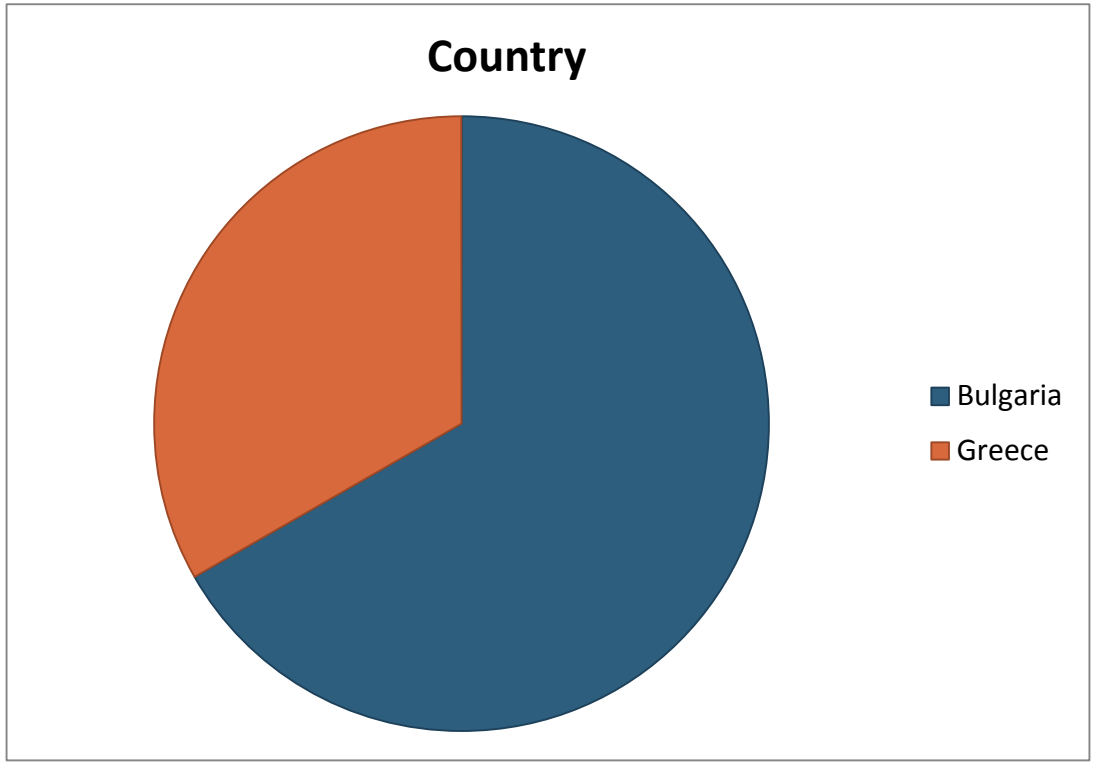
Male	84,2%
Female	15,8%

Description of the students



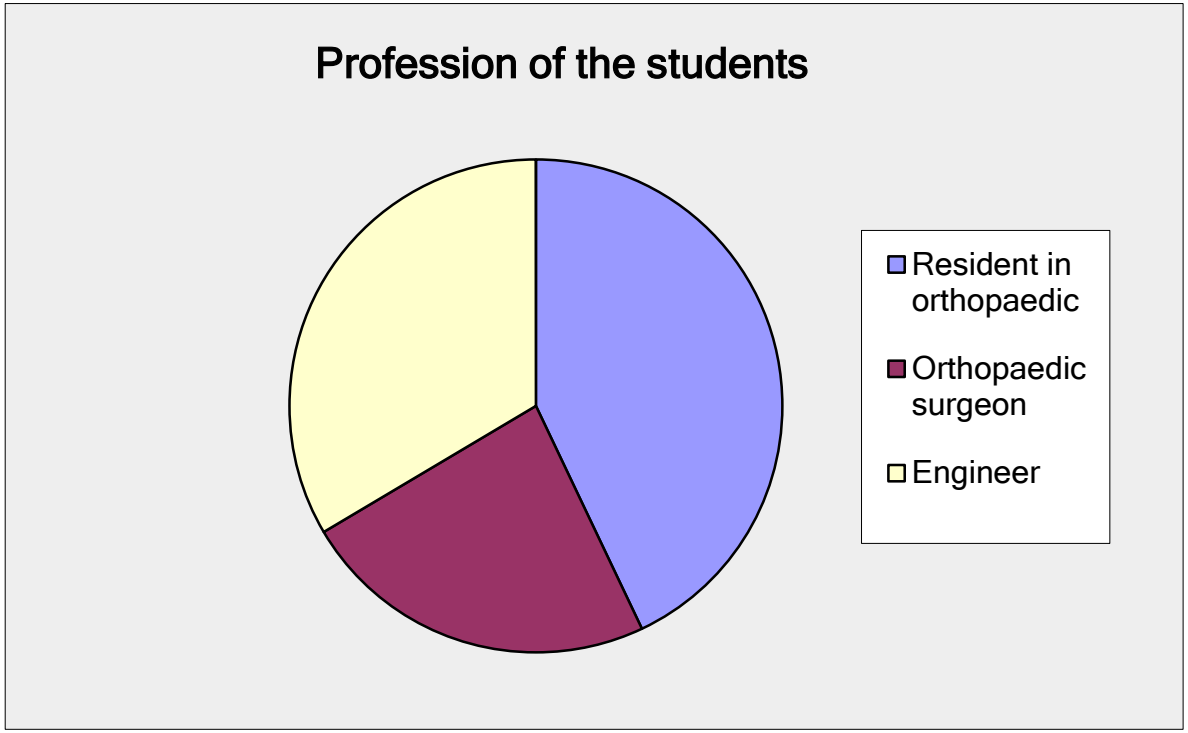
25-35	73,70%
36-46	26,30%

Description of the students



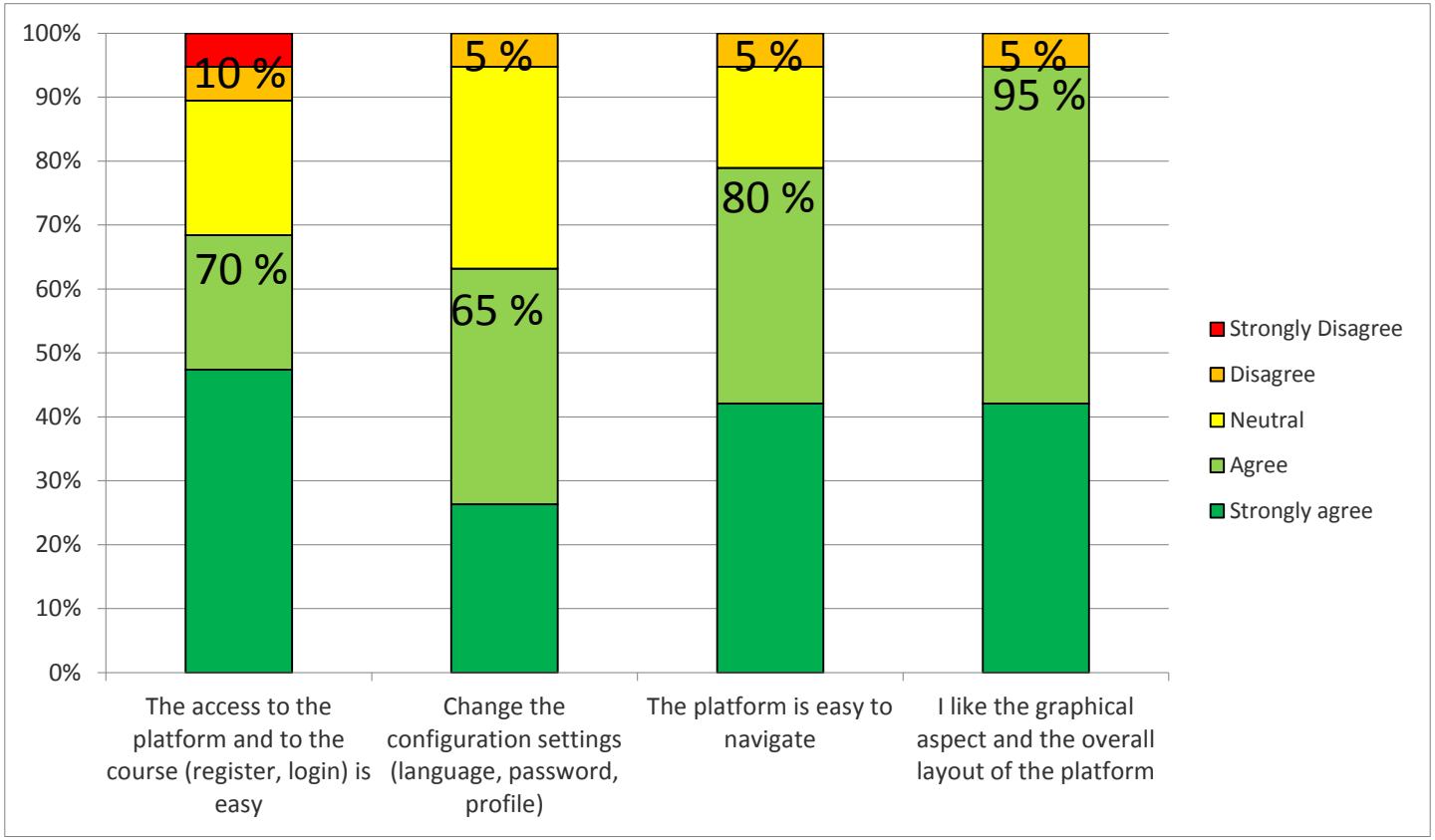
Bulgaria	66,66%
Greece	33,33%

Description of the students



Resident in orthopaedic	42,9%
orthopaedic surgeon	23,5%
Engineer	33,5%

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	47,4%	21,1%	21,1%	5,3%	5,3%
Change the configuration settings (language, password, profile)	26,3%	36,8%	31,6%	5,3%	0,0%
The platform is easy to navigate	42,1%	36,8%	15,8%	5,3%	0,0%
I like the graphical aspect and the overall layout of the platform	42,1%	52,6%	0,0%	5,3%	0,0%

Web course evaluation

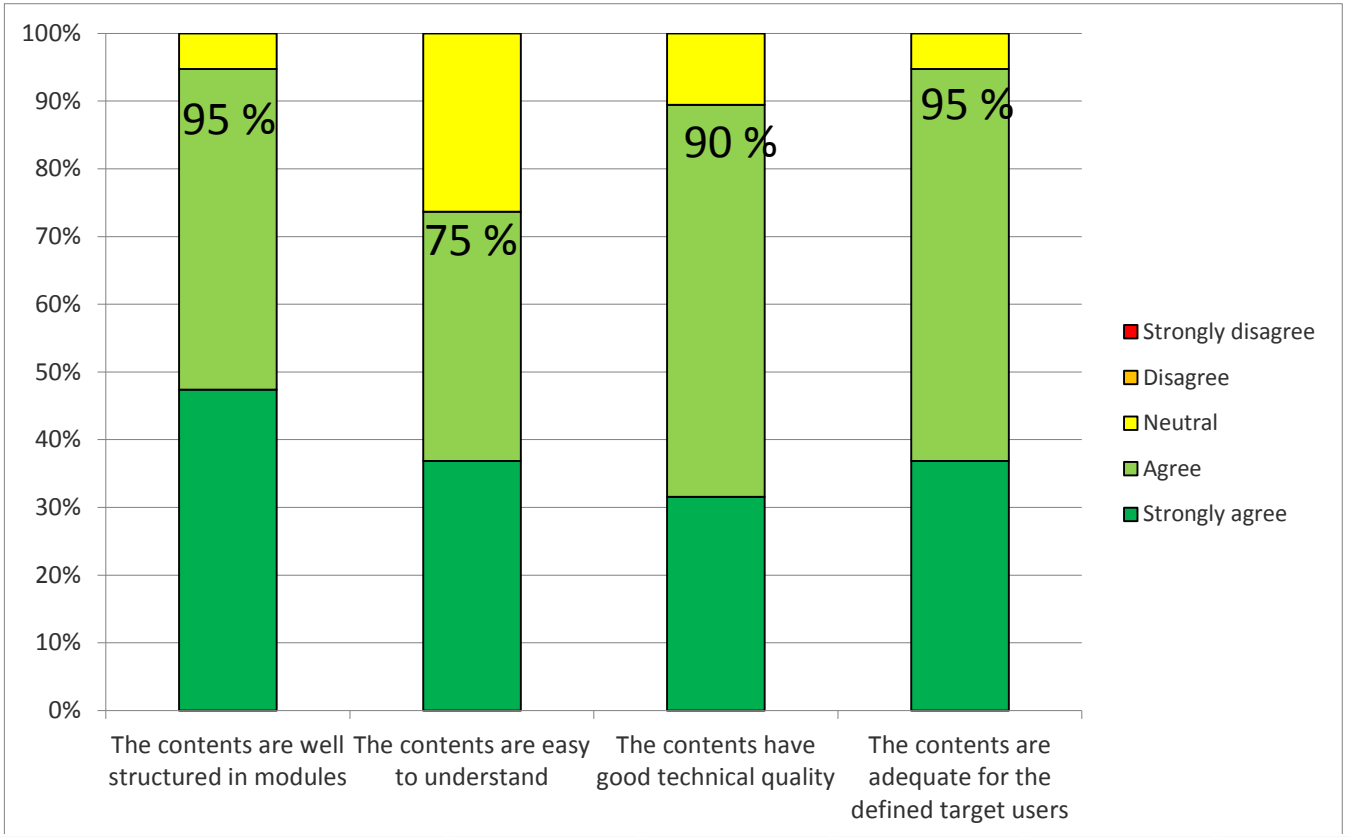
POSITIVE ASPECTS

- There are quick links and is easy to orient.
- Easy learning
- Good graphics
- Easy-to-use platform
- Easy to navigate and to read the courses.

NEGATIVE ASPECTS

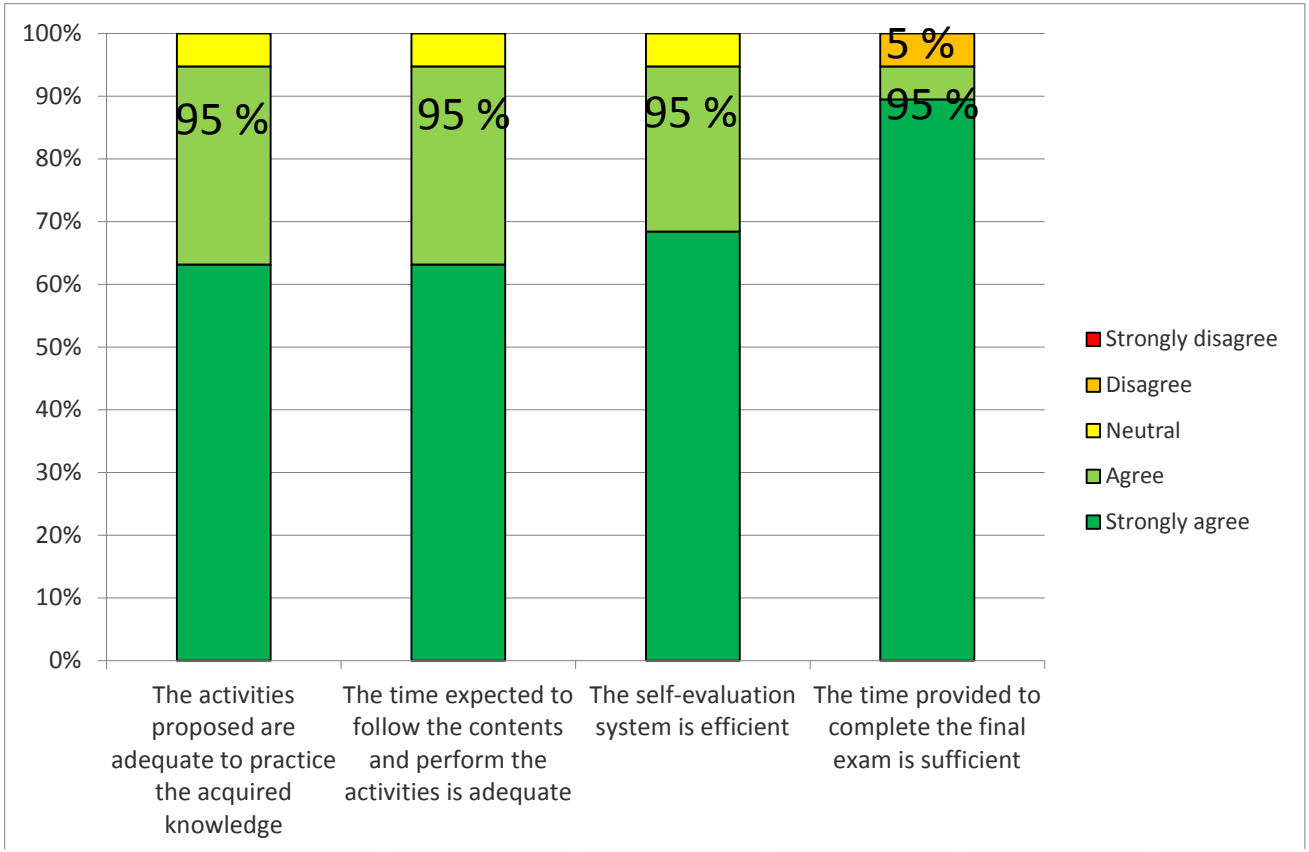
- Some menus only in Spanish-> Select language in the web course
- Problems to connecting-> Log out before Log in other PC

Contents evaluation



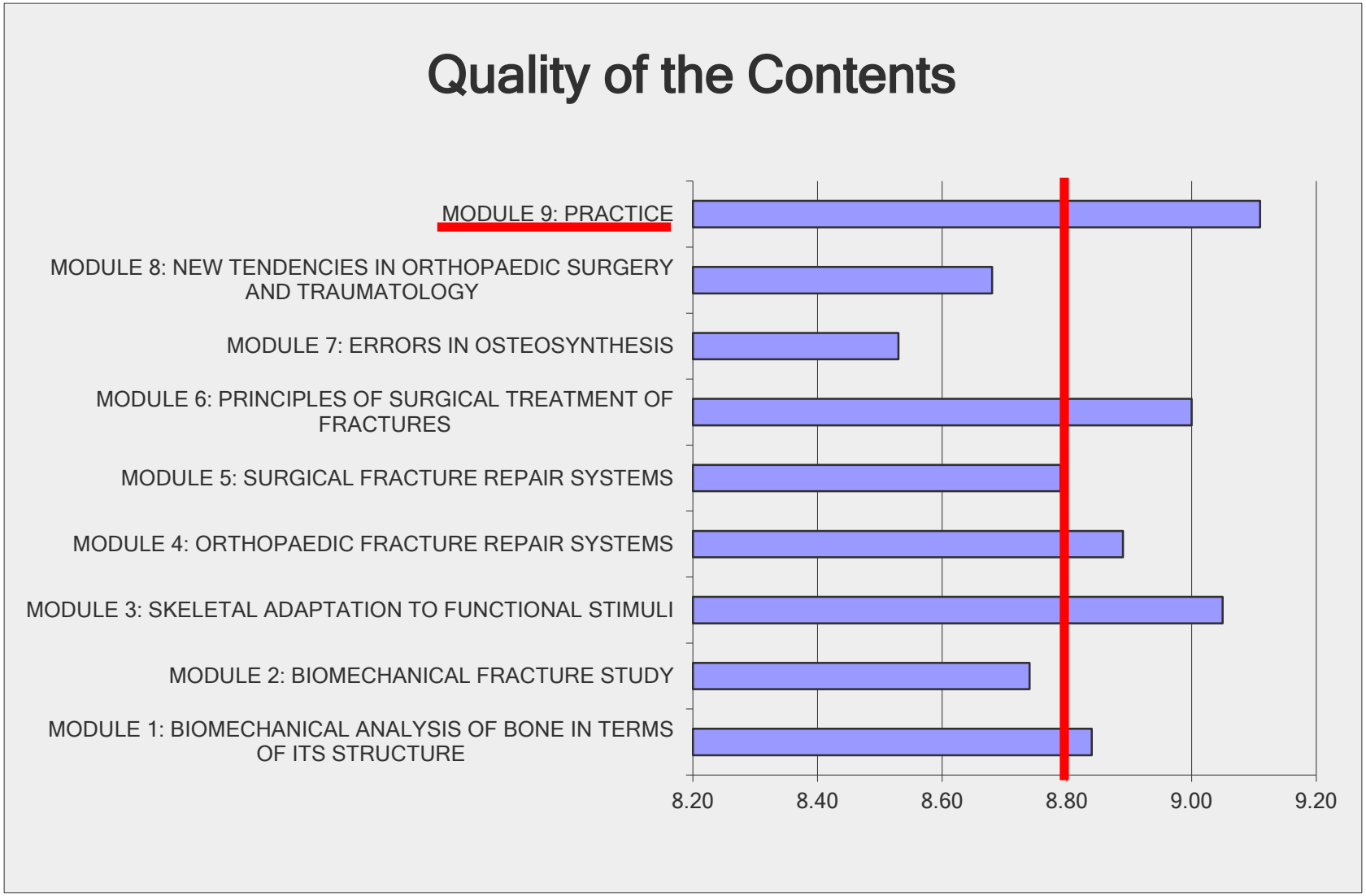
Answer Options	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The contents are well structured in modules	47,4%	47,4%	5,3%	0,0%	0,0%
The contents are easy to understand	36,8%	36,8%	26,3%	0,0%	0,0%
The contents have good technical quality	31,6%	57,9%	10,5%	0,0%	0,0%
The contents are adequate for the defined target users	36,8%	57,9%	5,3%	0,0%	0,0%

Contents evaluation



Answer Options	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The activities proposed are adequate to practice the acquired knowledge	63,2%	31,6%	5,3%	0,0%	0,0%
The time expected to follow the contents and perform the activities is adequate	63,2%	31,6%	5,3%	0,0%	0,0%
The self-evaluation system is efficient	68,4%	26,3%	5,3%	0,0%	0,0%
The time provided to complete the final exam is sufficient	89,5%	5,3%	0,0%	5,3%	0,0%

Contents evaluation



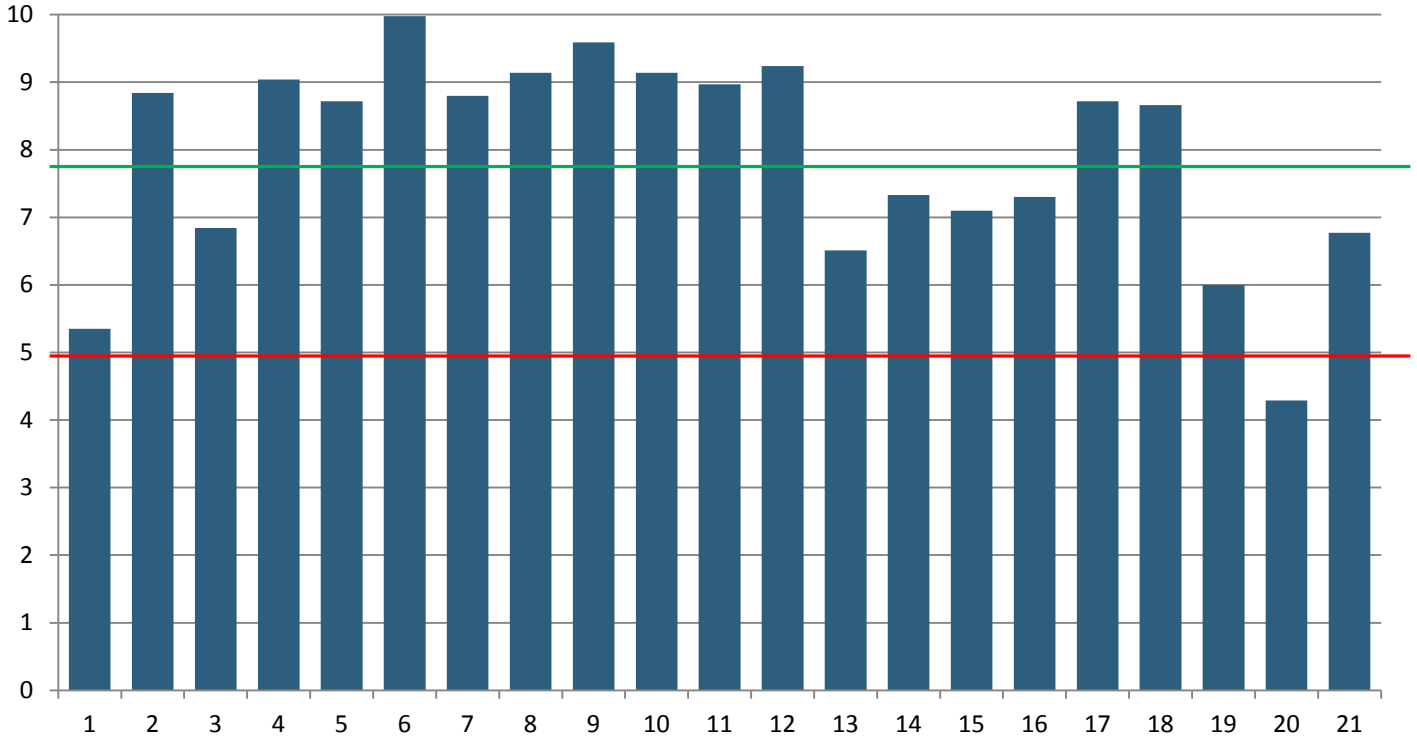
Grades

GRADING SYSTEM:

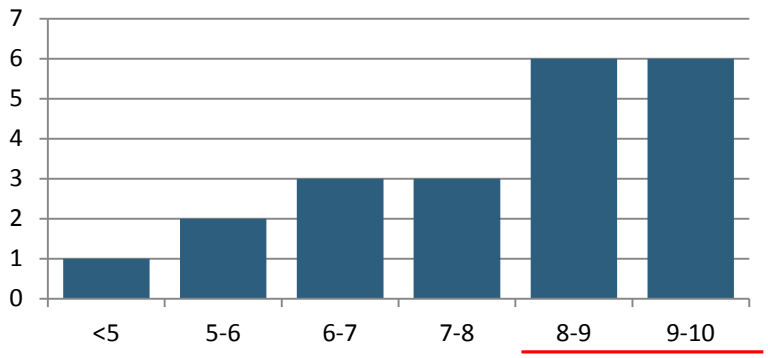
- The 60% of the global grade corresponds to the result of the final exam.

- 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	2
6-7	3
7-8	3
8-9	6
9-10	6



IBV

Student certificate

Lifelong Learning Programme

Ortho BioMed

The Biomechanics Institute of Valencia (IBV) certifies that:

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has completed the online course

OSTEOSYNTHESIS FOR SURGICAL MANAGEMENT OF FRACTURES FOR ORTHOPEDIC SURGEONS AND BIOMEDICAL ENGINEERS

Held from 26/01/2015 to 31/03/2015 with duration of 40 hours, and in witness whereof, I hereby sign this certificate.

Signed : **Pedro Vera**
Biomechanics Institute of Valencia
(IBV) Director

IBV 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 (78 % agree)
- Very good rating of the course contents (92 % agree)
- Good grades of the students (7.8/10)
- Overall good results of the pilot test

IBV INSTITUTO DE BIOMECÁNICA DE VALENCIA

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