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Industrial Engineering and Management of European Higher Education

WP4.- e-learning module evaluation

Partner: UPM

WP4.- Analysis of the Module Survey

Module title: IE3 Project Monitoring Module

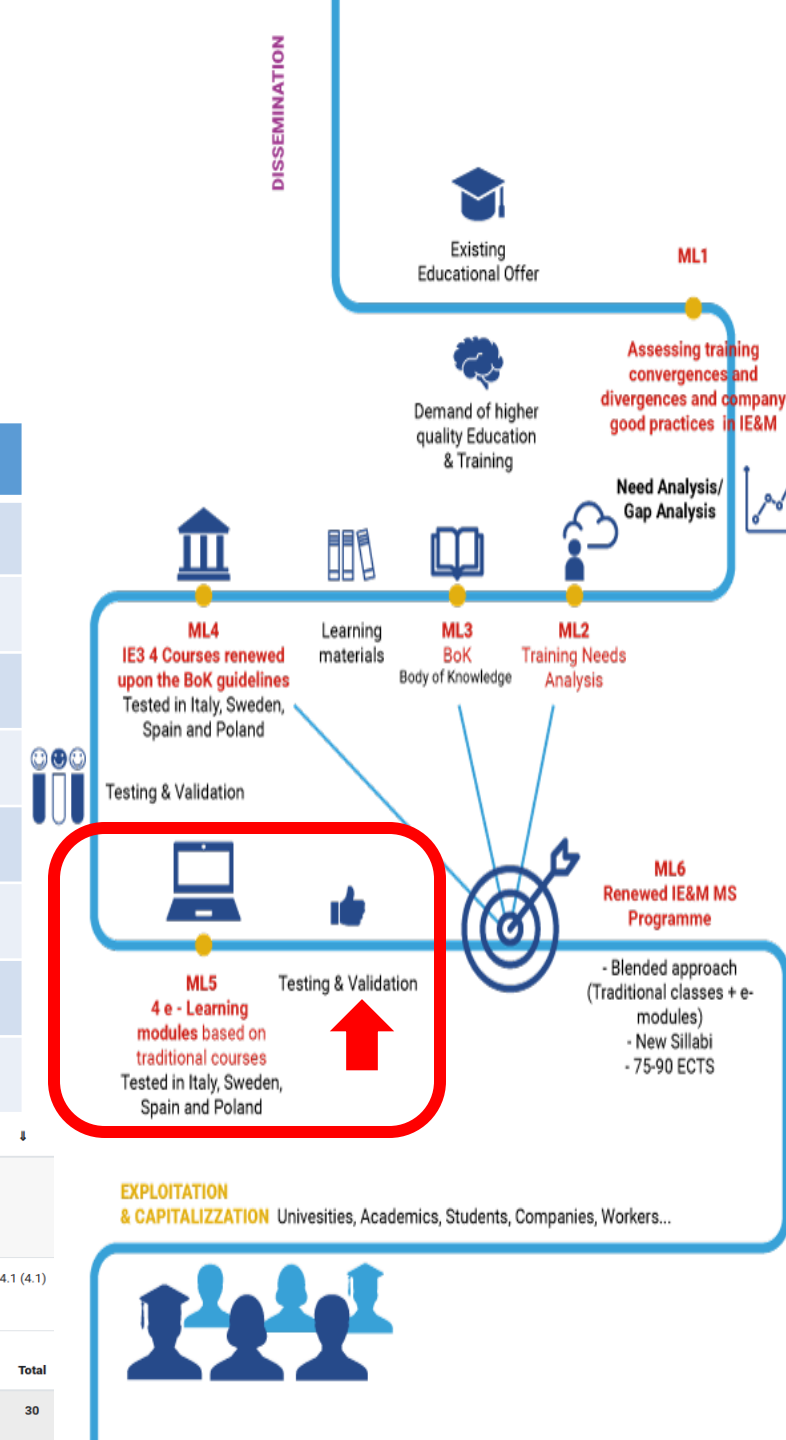N. Students completing the course: 0 LIU   18 Poliba/Uniba   0 PZN

Total Number: 16 LIU   30 Poliba/Uniba   20 PZN

Title of the module	Average Rank (1-5)
Module usefullness (average number):	4,3
Develop practical skills (average number):	4,1
Satisfaction for the Methodology (average number):	4,1
Usefulness of the way of learning (average number):	4,2
Quizzes are convenient (average number):	4,0
Hours spent for training (min/avg/max):	11,0
Hours spent for exercices (min/avg/max):	2,3
Above the initial expecations (average number)**?**:	4,0

Average rank (and average values)

	Disagree in full;	Partially disagree;	Neither agree nor disagree;	Partially agree;	Fully Agree.
This elearning module allowed me to understand new or useful concepts:				■	4.3

Responses	Disagree in full;	Partially disagree;	Neither agree nor disagree;	Partially agree;	Fully Agree.
This elearning module allowed me to understand new or useful concepts:	1 (3%)	0	1 (3%)	14 (47%)	14 (47%)

Average rank (and average values)

	Disagree in full;	Partially disagree;	Neither agree nor disagree;	Partially agree;	Fully Agree.
This elearning module equipped me with practical abilities useful in my professional life				■	4.1 (4.1)

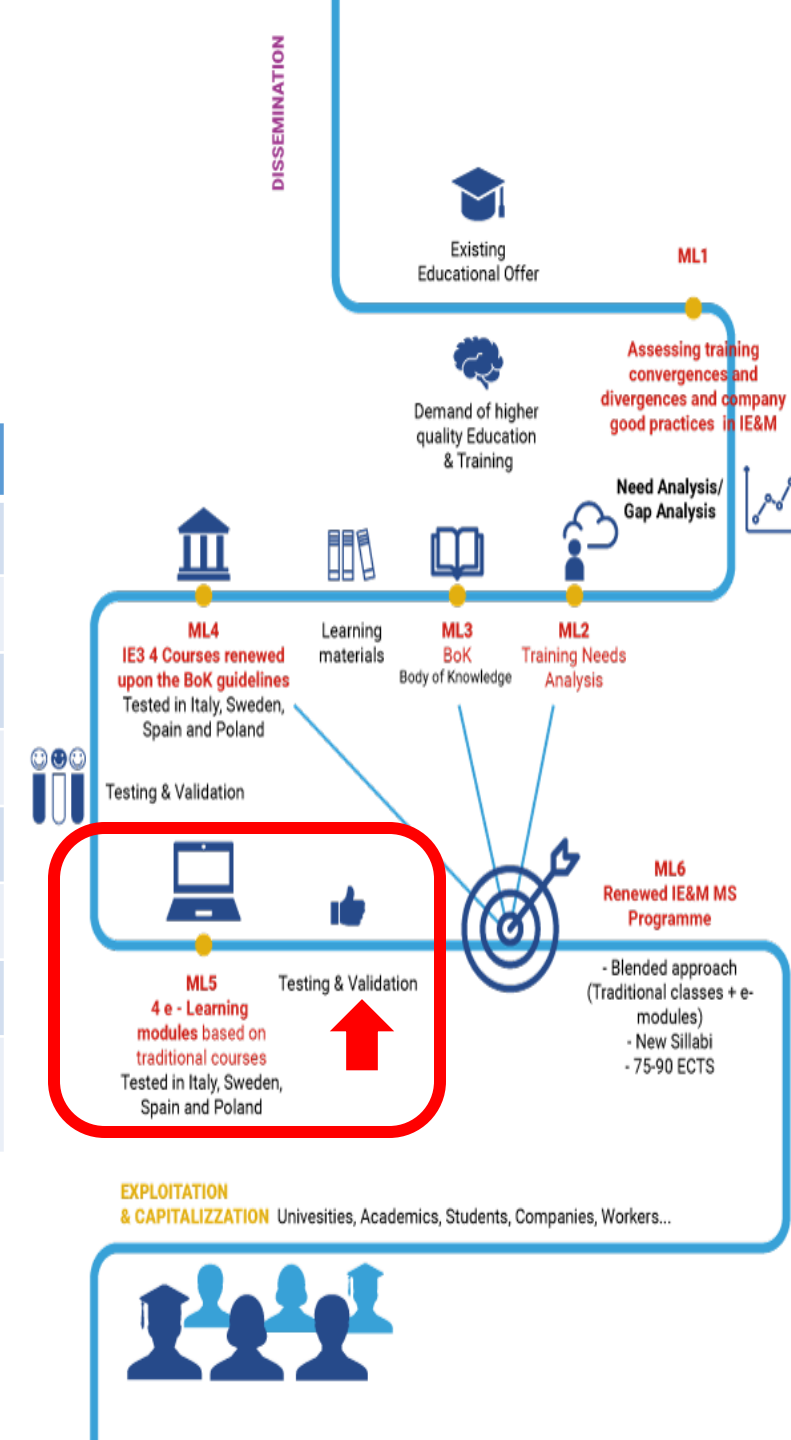| Responses	Disagree in full;	Partially disagree;	Neither agree nor disagree;	Partially agree;	Fully Agree.	Total
This elearning module equipped me with practical abilities useful in my professional life	1 (3%)	1 (3%)	4 (13%)	12 (40%)	12 (40%)	30

WP4.- Analysis of the Module Survey

Module title: IE3 Project Monitoring Module

Professionals: 1 IMPLEMA   0 Bosch   0 Alcomot   1 Arruti
Total Number: 3 IMPLEMA   2 Bosch   1 Alcomot   1 Arruti

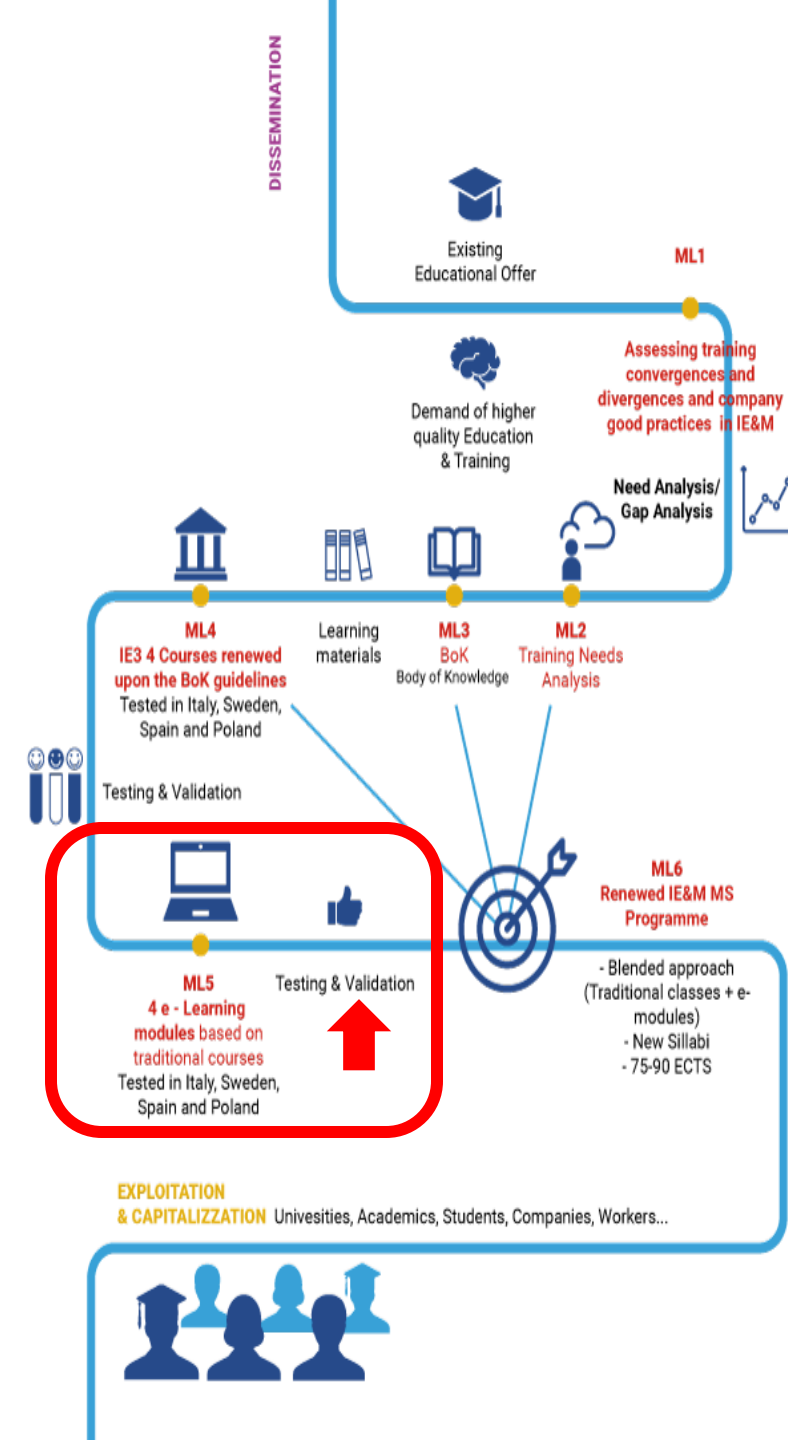| Title of the module	Average Rank (1-5)
Module usefullness (average number):	4,67
Develop practical skills (average number):	4,67
Satisfaction for the Methodology (average number):	4,67
Usefulness of the way of learning (average number):	5,00
Quizzes are convenient (average number):	4,33
Hours spent for training (min/avg/max):	10,0
Hours spent for exercices (min/avg/max):	1,42
Above the initial expecations (average number)**?**:	4,33

Summary of suggestions:

WP4.- Analysis of the IE3PMM Module

Module title: Project Monitoring Module

- The module involves 9 videoclips and 10 reading blog pages / articles + 6 methodology library resources.
- It was estimated as mandatory 10-15 h of required work plus 15-20h of optional work, plus 2-5 hours for test and quizzes, depending on iterations, as at least two iterations were envisaged. Declared effort is consistent between students and industrials ~10 + 2h for test with no interactions.
- Engagement of students was minimal (in comparison of the one planned)

Analysis of criticality
- Did the students achieve the expected learning objectives?
  - According to the tests Poliba students did, with limited involvement.
  - They have performed well, as they passed the threshold successfully.
- As not optional assignment was carried out, we can not evaluate the achievement of the learning objective compared to the prior knowledge. This is an aspect to consider in the new design.

WP4.- Evaluation of the IE3 PMM Module

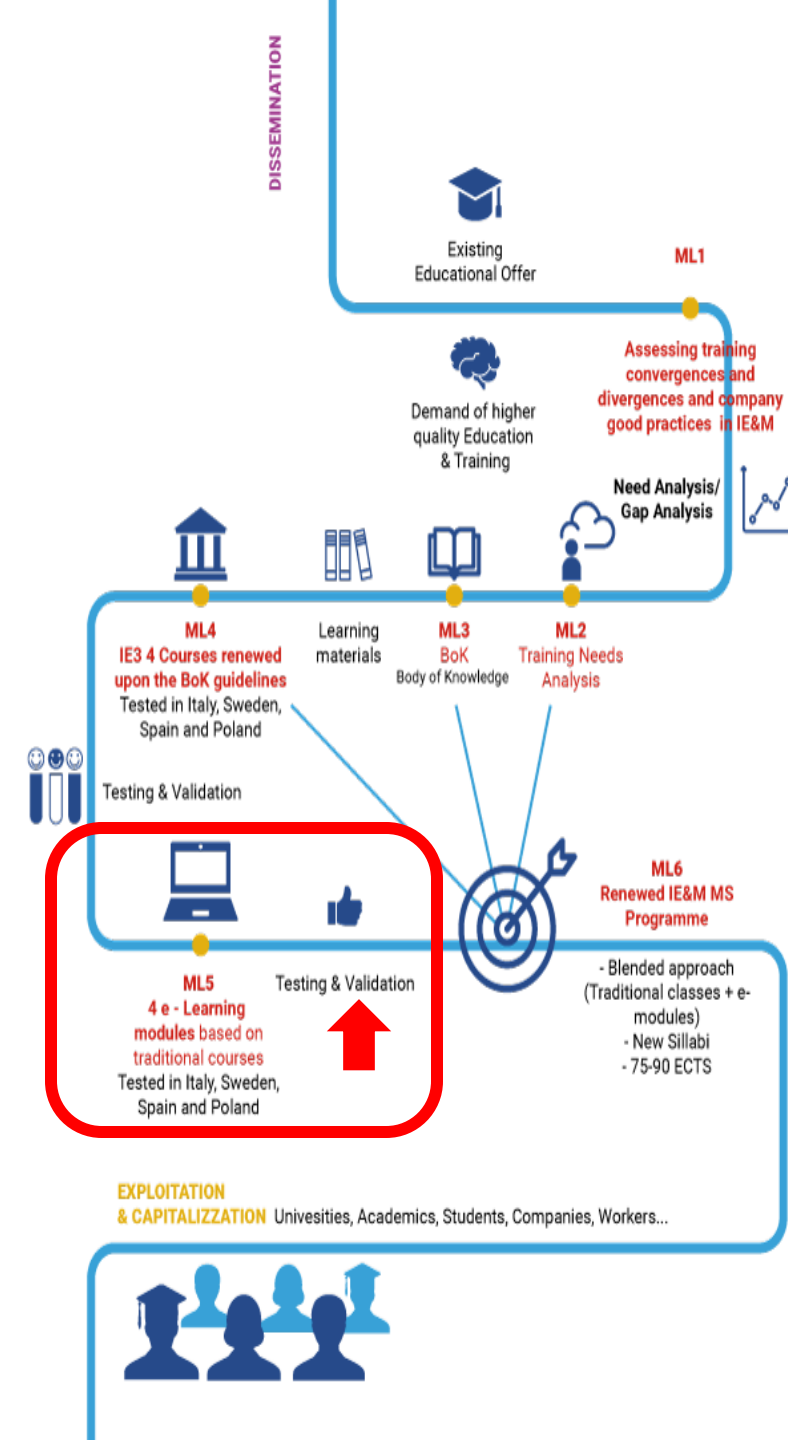**Strengths of the module (at design level)**

1. Enable different learning styles (video oriented OR Reading oriented).
2. Practical learning was highlighted by paying attention to different software tools.
3. Optional activities considered for deeply analysis.

Do you consider the students realized them?   => I do not think so.
Do you consider the professionals realized them?   => Not sure.

Ideas for module improvement:

1. Estimate the initial knowledge through a test.
2. Improve the doing dimension by asking to solve some exercises.
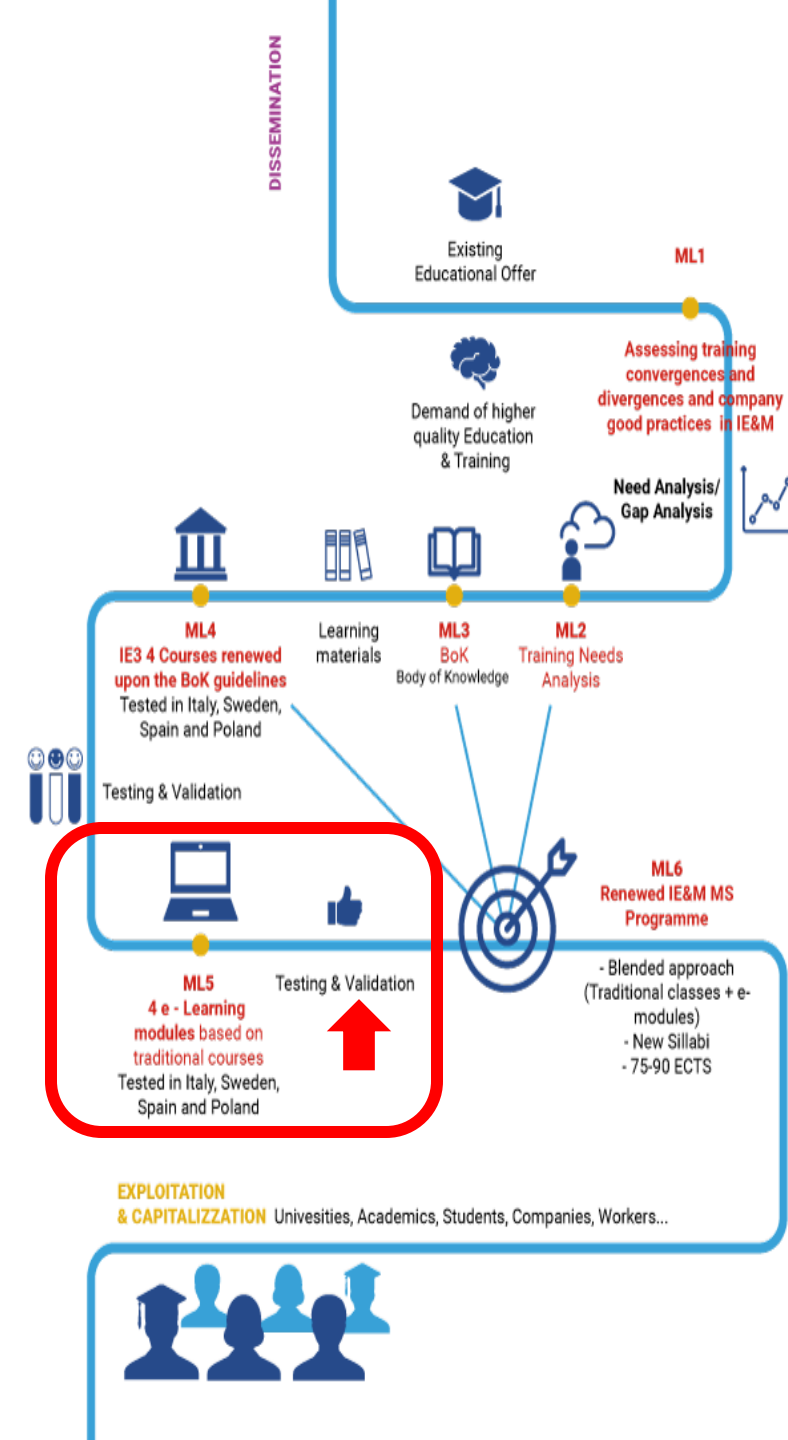3. Increase the explanation of what is expected and what it is expected.

WP4.- Evaluation of the Module

Based on the experience, please list the main points to emphasize for the revision of the module:

1. Add a test to estimate the initial knowledge.
2. Increase doing activities in addition to the learning ones.
3. Add deeply explanation regarding expectations and outcomes.
4. When the module is extended to the course, control of visible sections can help to keep the progress measurable.

Reinforced added value, when the improvements are implemented (estimated):

1. Increasing engagement levels.
2. Provided a measurable estimation of the gained knowledge.
3. Learner's behavior will be closer to the plans.

WP4.- Evaluation of the Module
Reminder

Each Partner must provide for the deliverables:

The WP4 Action Plan does consider all the engagements involved into it. Mainly,

a) Description of the modules transformed for e-learning
b) Pedagogical model beyond the e-learning implementation
c) Intended usage of the platform by learners (duration, foreseen interactions, etc.) *These aspects are closer to the selected methodology.*
d) Which nonstandard elements must be required (*gamification, etc.*)
e) Added value (strengths) the e-learning module provides. This is relevant as other partners can decide cross use it because of your description. *To summarize the strengths in several bullet points is highly recommended.*
f) Content Creation
g) Behavioural tests

Each partner MUST provide a report addressing the previous aspects having the focus on their implemented modules at their earliest convenience, as the UPM must integrate them regarding the R4.4.

Deadline 22/07/2022