

EVALUATION OF THE PRACTICAL TEACHING OF PHARMACEUTICAL TECHNOLOGY II OF THE DEGREE IN PHARMACY OF THE UNIVERSITY OF MURCIA



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AIMS

Pharmaceutical Technology II is a subject with 12 credits ECTS (European Credit Transfer System) taught in the fourth year of the Degree in Pharmacy at the University of Murcia (figure 1). This subject, which is the basis of one of the most genuine aspects of the Pharmacy, consists of 42 h of laboratory practices distributed throughout the course, so the evaluation of practical teaching is of vital importance to assess the student's learning.

1. Identificación

1.1. De la Asignatura

Curso Académico	2018/2019
Titulación	GRADO EN FARMACIA
Nombre de la Asignatura	TECNOLOGÍA FARMACÉUTICA II
Código	3139
Curso	CUARTO
Carácter	OBLIGATORIA
N.º Grupos	1
Créditos ECTS	12
Estimación del volumen de trabajo del alumno	300
Organización Temporal/Temporalidad	Aº Anual
Idiomas en que se imparte	ESPAÑOL
Tipo de Enseñanza	Presencial

Figure 1. Subject identification in the Teaching Guide.

METHODS

We have conducted an anonymous survey among the students of this subject (course 2017/2018, n=33) in which they had to answer to 4 questions related to practical teaching: Score was fixed between 1 and 5: 1 (very little necessary), 2 (little necessary), 3 (indifferent), 4 (necessary) and 5 (very necessary). GraphPad Prism 6.01 was used for the statistical study.

Asked questions:

Question 1: Need to performe laboratory practices in the subject Pharmaceutical Technology II.

Question 2: Need for new equipment for the implementation of Pharmaceutical Technology II practices.

Question 3: Need to know beforehand the practice notes before doing it.

Question 4: Need to access the Royal Spanish Pharmacopoeia (figure 2) during practices development and during their subsequent study.

RESULTS

Our results show that students notice that performing lab practices is very necessary (4.788 ± 0.095). They also demand the acquisition of new and latest lab equipment (4.364 ± 0.143). Regarding the practice development, they estimate necessary to have the notes for the practice before it starts (3.545 ± 0.145) and, finally, the students do not consider necessary (2.424 ± 0.1687) to access the Real Spanish Pharmacopoeia during the practice development and during its subsequent study (figure 3).

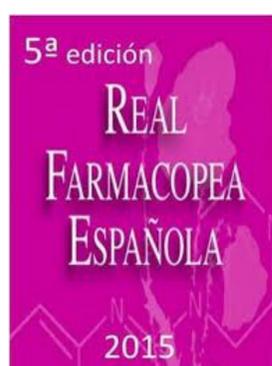


Figure 2. Image of the last edition of the Spanish Royal Pharmacopoeia.

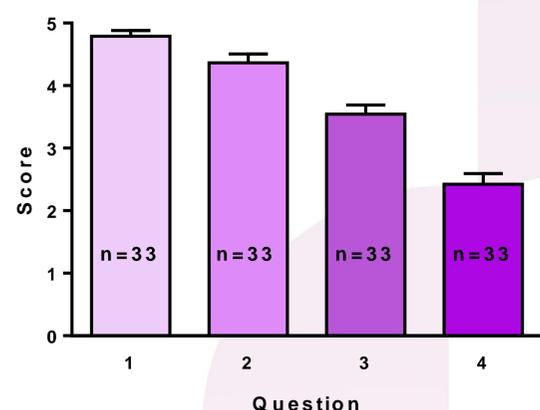


Figure 3. Score values for the asked questions. 1 (very little necessary), 2 (little necessary), 3 (indifferent), 4 (necessary) and 5 (very necessary). Data are the mean \pm S.E.M.

CONCLUSIONS

Pharmaceutical Technology II teachers detect the need to improve the quality of lab practices, in relation to infrastructure and materials available to the student, and also are aware that they must promote the use of the Royal Spanish Pharmacopoeia (the electronic version is available for our students) or other pharmacopoeias of recognized prestige among students.