



Progressively implementation of the new degrees at E.T.S. of Agriculture Engineering and extinction of the earlier degrees

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The Bologna process is to improve the quality of education, mobility, diversity and the competitiveness and involves three fundamental changes: transform of the structure of titles, changing in methods of teaching and implementation of the systems of quality assurance. Once that the new degrees have been implemented with this structure, and began at E.T.S. of Agriculture Engineering (ETSIA) at Madrid from 2010-2011 course, the main aim of this work is to deeply study the changes in teaching methodology as well as progressively implementation of the educational planning of the three new degrees: Engineering and Agronomic Graduate, Food Industry Engineering Graduate and Agro-environmental Graduate. Each one of them presents 240 ECTS with a common first course and will have access to an official Master in Agronomic Engineering.

As part as an educational innovation project awarded by the Technical University of Madrid (UPM) to improve educational quality, the second course has been designed with the main objective to continue the educative model implemented last course. This model identifies several teaching activities and represents a proper teaching style at ETSIA-UPM. At the same time, a monitoring and development coordination plans have been established. On the other hand, a procedure to extinguish the earlier plans of Agriculture Engineering was also defined.

Other activities related to this Project were the information improvement of the grades, in particular at High Schools centers, improving the processes of reception, counseling and tutoring and mentoring. Likewise, cooperative working workshops and programs to support the teaching of English language were implemented.

Satisfaction surveys and opinion polls were done to professors and students involved in first course in order to test several aspects of this project. The students surveys were analyzed taking in account the academic results and their participation in mentoring activities giving a highly satisfactory level. In general, the professors gave the same result although they pointed out certain discontent respect to some circumstances giving some solutions to correct these problems.

References

Augusto Arce, Ana Maria Tarquis, Javier Caniego, Jesus Vazquez, Augusto Serrano and Maria Carmen Cartagena. New Titles Implementation in the Framework of European Higher Education Area at E.T.S. Ingenieros Agrónomos of Madrid: Education Planning. Geophysical Research Abstracts, Vol. 13, EGU2011-11509, 2011.

M. Carmen Cartagena, A.M. Tarquis and Augusto Arce. The Role of Chemistry in the AgroEnvironmental Engineering Degree. Geophysical Research Abstracts, Vol. 12, EGU2010-15066, 2010.

M. Carmen Cartagena, A.M. Tarquis, J. Vázquez, A. Serrano and A. Arce. The future in Agricultural Engineering: news degrees in the Universidad Politécnica de Madrid (UPM). Geophysical Research Abstracts, Vol. 12, EGU2010-15068, 2010.