

A knowledge transfer program for engineering students at master level at the UPM

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Nuclear technology, developed over more than fifty years, comprises a broad set of branches of knowledge such as mechanical engineering, nuclear physics, automation, etc. During the operational experience of existing reactors it has been developed a vast knowledge that is needed to manage adequately to allow the present and future generations make use of this technology.

The IAEA has selected some universities to train teachers for the implementation of a course of nuclear knowledge management in different countries (Albania, Mexico, Russia, Czech Republic, Spain, etc.). Around 20 teachers with different backgrounds received a training course in Karlsruhe (Germany) in December 2011, including a representative of the UPM (Prof. G. Jimenez). Another edition was held in November 2012 for new teachers. This experience has been repeated after.

Motivated by the previous initiative, during 2012 and 2013 it was held at the Department of Nuclear Engineering at the UPM's the first editions of "Knowledge Management Seminar in the nuclear sector" which was attended by students of Master of Nuclear Science and Technology and the Master in Power Generation respectively. The scope of those seminars is to create a culture of knowledge management in the new generations entering the field of nuclear engineering. This culture will facilitate the necessary knowledge transfer, which shall be given by the more experienced. This transfer is key to ensuring the highest standards of safety of existing nuclear facilities and for optimizing those reactors whose construction will be in the future

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