

Development of a Graduate Reactor Experiments Course at University of Massachusetts-Lowell

Executive Summary

This project will develop a new Reactor Experiments course for the graduate Nuclear Engineering (NE) curriculum at the University of Massachusetts-Lowell (UML). The objective is to provide a more applied hands-on element to the current curriculum, thereby giving the student a stronger working knowledge of the practical aspects of reactor operations and systems. The new course will be offered as a core component of the Nuclear Engineering MS Degree program and it will be available as a technical elective for seniors within our undergraduate Nuclear Option program. We will also target interested students in the UML Radiological Sciences Program. In addition, so that we reach as large an audience as possible, the new course will also be available to the distance education community as well as to students in the local area (using the UML Research Reactor online capability). This new course will significantly broaden and strengthen the existing NE curriculum at UML and better utilize the UML Research Reactor as a key resource for educating the nuclear workforce of the future.

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