

عنوان مقاله:

Introduction of Universal Curriculum about Chemical Separation Methods Course for Master in Analytical Chemistry

محل انتشار:

دومین کنفرانس بین المللی پژوهش در علوم و تکنولوژی (سال: 1394)

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نویسندگان:

Alireza Karami - Chemistry Department, Shahid Rajaei Teacher Training University, Tehran, Iran

,Madineh Seyyed Dorraji - Chemistry Department, Shahid Rajaei Teacher Training University, Tehran

خلاصه مقاله:

The aim of this study was to compare the curriculum (objectives and contents) of chemical separation methods course in graduate level between Iran and other universities in the world. Besides the offering a full curriculum for this course is the goal of the research. This course is one of the fundamental course for master students in analytical chemistry. This study is applied, descriptive and library research. The population were the syllabuses of this course in graduate level in all universities. 38 universities were selected mainly in the United States of America, England and India using accessible sampling methods. The research tool was a researcher made table included objectives and contents. Results showed a much variety in course syllabus at different countries. Most topics taught in this universities are: gas chromatography; high performance liquid chromatography; thin layer chromatography; gel permeation chromatography; size exclusion chromatography; GC-MS; LC-MS; electrophoresis; capillary electrophoresis; liquid-liquid extraction; solid phase extraction; distillation; crystallization; dialysis and reverse osmosis. Finally Researchers proposed a universal syllabus for this course, included: gas chromatography, filtration methods, advanced techniques of extraction, electrophoresis, capillary electrophoresis and electrochromatography, size exclusion chromatography, supercritical fluids chromatography, high-performance liquid chromatography, thin layer, planer and column .chromatography, distillation, hyphenated techniques, crystallization, gel permeation chromatography

کلمات کلیدی:

Syllabus, Separation, Analytical Chemistry, Graduate, Global

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