



Adam Mickiewicz University in Poznań

Doctoral School of Exact Sciences AMU

Extraction Methods and Identification of Plant Natural Substances

Mohamed Bouaziz – Sfax University (Tunisia)

Scientific lectures

Field of science	Chemistry
Teaching method	Lecture
Language	English
Numbers of hours	15
Aims of the course	The aim of the course is to familiarize students/PhD students with types of extraction methods and Identification of plant natural substances
Course contents	The lectures will cover methods of natural substance extraction, chromatography analysis techniques, and identification methods including ¹ H and ¹³ C NMR (both unidimensional and bidimensional), as well as other identification techniques such as FTIR, mass spectrometry, and UV-Visible spectroscopy
Prerequisites and co-requisites	Basic chemistry, general knowledge on analytical chemistry

Learning outcomes

On completion of the course PhD candidates will be able to:	Assessment mode
A person who has completed education at the Doctoral School of Adam Mickiewicz University knows and understands: E_W01: the achievements of world science in the discipline in which the education takes place, as well as the paradigms and directions of development of this discipline, in a way that enables their creative and innovative development and their verification within the framework of research projects undertaken	Exam
A person who has completed education at the Doctoral School of Adam Mickiewicz University is able to: E_U01: use knowledge from various disciplines of science to creatively identify, formulate and innovatively solve complex research problems or perform advanced research tasks A person who has completed education at the Doctoral School of Adam Mickiewicz University is prepared for:	Exam
A person who has completed education at the Doctoral School of Adam Mickiewicz University is prepared for: EK01: critical evaluation of the work in the field of the scientific discipline within which the education is provided and its own contribution to the development of this discipline	Exam

<p>E_K04: thinking and acting in an entrepreneurial way, creating new ideas and searching - in cooperation with people from other disciplines - for innovative solutions, as well as taking up challenges and intellectual risk in the scientific and public spheres and taking responsibility for the consequences of their decisions</p> <p>E_K05: continuous improvement of professional competence and personal development, in particular by tracking and analyzing the latest developments in the represented scientific discipline</p>	
<p>Literature</p>	<p>Publications – Web of Science/Scopus Database (link to publications will be presented at each lecture)</p>
<p>Additional information</p>	<p>Lecture</p> <ul style="list-style-type: none"> ▪ Multimedia presentation, practical seminar, evaluation test