

Title of the course: Environmental analysis laboratory practice

Kredits:2

Coordinator/Department: Enikő Tatár, associate professor

Department of Analytical Chemistry

Terms for joining: Environmental analysis lecture

Topics covered by the course:

Speciation analysis of environmental samples. Water analysis. Atomic absorption spectrometry. Flame photometry. Inductively coupled plasma mass spectrometry. X-ray fluorescence spectrometry. Ultraviolet and visible absorption spectrometry

Literature:

Compulsory:

E. Varga, F. Garay: Környezetkémiai analitika – környezettechnológia praktikum, ELTE Eötvös Kiadó, Budapest, 1999

C. Vandecasteele and C.B. Block: Modern methods for trace element determination, John Wiley & Sons, Chichester, 1993

H.H. Willard, L.L. Merritt, J.A. Dean, F.A. Settle: Instrumental methods of analysis, Wadsworth Publishing Company, California, 1988

Záray Gy.: Az elemanalitika korszerű módszerei, Akadémia Kiadó 2006

Suggested:

R.M. Reeve: Environmental Analysis, John Wiley & Sons, Chichester, 1994

J.R. Dean: Atomic Absorption and Plasma Spectroscopy

D.A. Skoog, D.M. West, F.J. Holler: Analytical chemistry, Saunders College Publishing, Fort Worth, 1992

L.R. Snyder, J.J. Kirkland, J.L. Glajch: Practical HPLC method development, 2nd ed., John Wiley & Sons, 1997