Analytical Methods in Geochemistry – Syllabus 206-25901

Lecturer: Dr. Alexey Kamysn

Topics:
• Statistics
• Sampling and preservation techniques
• Wet methods of analysis
• Spectral methods of analysis
• Mass-spectrometric methods of analysis
• Principles of chromatography
• Liquid chromatography
• Gas chromatography

Reference books:
• Skoog, West, Holler – Fundamentals of Analytical Chemistry
• Fifield and Haines – Environmental Analytical Chemistry
• Gill – Modern Analytical Geochemistry
• McNair and Miller – Basic Gas Chromatography
• Snyder, Kirkland and Dolan – Introduction to Modern Liquid Chromatography

Course structure:
• 2 hours of lecture per week
• 1 hour of seminar per week
• 2 laboratory assignments per course on Fridays 08:00 – 15:00

Requirements:
• Attendance (lectures and seminars) – 80%
• Attendance (laboratory assignments) – 100%

Grades:
• Homework – 20% of the final grade, will be uploaded on Moodle
• Laboratory assignments – 20%
• Mid-term examination (מגן בוחן) – 0 -00% of the final grade
• Final examination – 40-60% of the final grade