

COURSE TITLE:

## LABORATORY SAMPLE PREPARATION

COURSE DESCRIPTION:

Role and importance of sample preparation in the framework of analytical strategies and protocols. Separation vs. destruction. Texture, phase, chemistry. Role and importance of separation. Separation techniques for handling solid state samples by physical properties like hardness, grain size, magnetic susceptibility, specific density, surface activity and floating properties. Hands on practices on different environmental materials. Ability to design sample preparation protocols.

LITERATURE:

Sampling and Sample Preparation in Field and Laboratory, Volume 37: Fundamentals and New Directions in Sample Preparation (Comprehensive Analytical Chemistry), Elsevier, 2002

TEACHER:

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