

Synthesis of Nanomaterials and Fabrication of Thin Films

15 hour Module

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Registration deadline: March 15, 2022

Date of the first lecture: March 29, 4 pm



This specialized course will focus on basic principles, advantages and limitations of different methods used for the preparation of nanomaterials and fabrication of thin films. In each technique, the effect of different parameters on size and morphology of nanomaterials or deposition of thin films will be discussed in detail.

Which methods??

Different colloidal, solvent-free, green synthesis and vapor based techniques.

Which kind of nanomaterials??

Synthesis of metallic, bimetallic, binary and multinary (metal oxides and chalcogenides) nanomaterials will be considered.

Mode of learning??

Online lectures (If interested and possible, selected methods can be practically demonstrated in the lab).

Grading??

The final grade will be based mainly on an in-class presentation.

