

INGE 5075

Course Title NANOMATERIALS AND FINE PARTICLES PROCESSING

Course Description Study of the nanoscale and the perspectives of nanotechnology, nanomaterials, and their properties. Fundamentals and practice of particle nucleation and growth. Analysis of conditions leading to particle stability and the formation of solid solutions at the micro- and nanosize scale. Fundamental and industrial applications such as ceramics, magnetic materials, semiconductors, ferroelectrics, optical materials, catalysts, pigments, and biological and medical devices. Study of nanotechnology and its relation with the environment.

Credit Hours 3

Course Options Exchange..... No
Special Topic..... No
Type.....Normal
Offering Semester..... Always
Students can take this course multiple times.....No

Grading Schema Passing Grade D

Requisites INGE 4001 or INGE 3045 or INME 4007 or authorization of the Director of the Department.