Course Syllabus for Smart and Sustainable Industry PhD Program (years 2024-25/2025-26)

Course title	Nanotechnologies for energy transition
Scientific Discipline Sector	ING-IND/11
Hours of instruction	20
CFU	2
Semester	Second
Goal	This course gives a comprehensive overview of nanotechnology for design engineers working in the energy transition.
Syllabus Bibliography	This course gives a comprehensive overview of nanotechnology for design engineers. It introduces students to how materials' fundamental physical, electrical, and optical properties change on the nanoscale compared to their bulk counterparts. The methods used to fabricate nanomaterials will be discussed with the physics and chemistry underpinning their extraordinary complexities, empowering students to tailor nanomaterial properties and deduce design principles guiding nanotechnology applications. Nanotechnology and Nanomaterials for Energy
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Examination method	Written