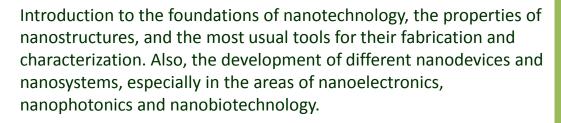


#### Nanotech

ETSIT and ISOM 19, 20 & 21 June 2019

Director: Prof. Fernando Calle



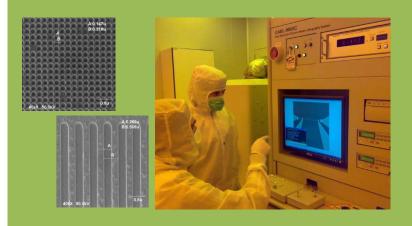
Students: Bachelor

Pre-requisites: None

ECTS: 1 (10 class hours)









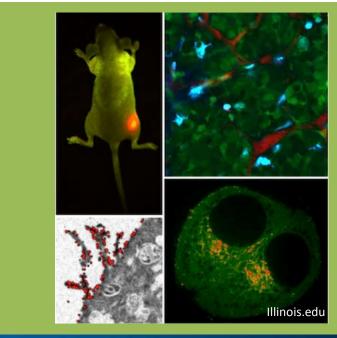
#### Nanotech

- MODULE 1: I. Introduction to Nanotechnology: principles, size, scaling down, application overview; technological social and environmental risks; global impact
  - II. Nanomaterials (semiconductors, carbon-based nanostructures, biomaterials) and nanotechniques for fabrication and characterizacion
- MODULE 2: I. Some nanodevices: nanoelectronics, nanophotonics, nanobiotechnology
  - II. ISOM-UPM lab tour
- MODULE 3: Industrial and social impact of nanotechnologies

  Dr. Pedro Serena Domingo

  Spanish National Research Council

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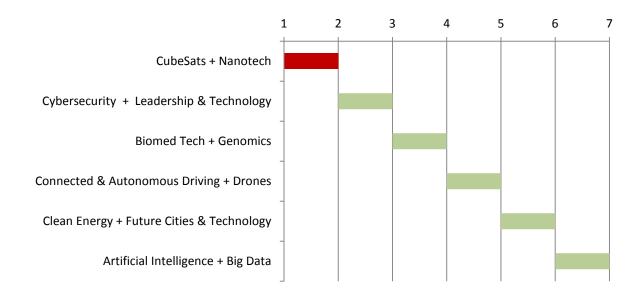






## Nanotech

#### Schedule



Week	Monday	Tuesday	Wednesday	Thursday	Friday
1			Lecture Practical Exercise	Lecture LabTour	Industry Talk



#### Nanotech

#### Faculty



Fernando Calle is full professor of electronics and nanotechnology, currently leading the Semiconductor **Device Group and Associate** Vice Rector for Doctoral Studies and Research. He has been the principal investigator of 35+ R&D projects, coauthor of 200+ international publications, 50+ invited talks and five patents. His current research is related to the physics, technology, and applications of wide bandgap semiconductors and graphene.



Dr. Pedro Serena Domingo is the coordinator of Spanish National Research Coordinator for the Madrid Region, as well as Director of the Center for Theoretical Physics and Mathematics. His research is related to modeling and studying electronic and mechanical properties of several nanostructures. He has authored 90 scientific papers and 60+ papers on scientific dissemination and policy, and has contributed to doctoral and master courses.