
Code	ECE 686
Name	Semiconductor Process and Device Fabrication
Hour per week	3 (3+0)
Credit	3
ECTS	10
Level/Year	Graduate / Master, Ph.D.
Semester	Spring
Type	Elective
Prerequisites	None
Content	This course introduces the fundamentals of microfabrication process and reviews the developments, materials and clean room protocols. The topics are photolithography, masking and patterning of materials, semiconductor oxidation and diffusion, ion implantation, thermal processing, etching, metal and dielectric deposition for contacts, gate and interconnect engineering, metrology and process control systems, packaging, MEMS devices.
