

Code	AMN 521
Name	Solid State Physics
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate
Semester	Fall and Springs
Type	Compulsory
Prerequisites	
Content	Crystal structures, Symmetries, Direction and Planes, Bragg Diffraction, Reciprocal Lattice, Brillouin Zones, Bondings, Lattice Vibrations: Phonons, Thermal Properties, Einstein Model, Debye Model, Hall Effect, Free Electron model, Fermi Gas, Semiconductors, Fermi Surfaces