

Course description

Course Title Solids and Interfaces Sólidos e Interfaces		
Type/Attendance Time Lecture: 2 hour per week Tutorial: 2 hours per week	Credit points (ECTS)	Type of Examination Examination, Exercises
Recommended Prerequisi Statistical Thermodynamics (L		
 3. Electrical conductivity and Classical treatment of electrical band structure of solids, semi-c 4. Specific heat and lattice vill Einstein model, Debye model, electrons in metals 5. Surfaces 	s , Miller index, reciprocal latti electronic band structure l conductivity, quantum mech- conductors orations theory of lattice vibrations and es of surface processes, surface	e structure and their determination,
 Conteúdo 1. Comprimentos de ligaçã 2. Cristais e retículos crista 3. Condutividade elétrica e 4. Calor específico e vibra 5. Superfícies. 	alinos; e estrutura eletrônica de banda	15;