

Course	Computational Science and Technical Physics: Advanced Topics in Material Science, 3 ECTS credits
Year and period	M.Sc. 2, 29 July–2 August 2019
Teacher(s)	Visiting lecturers
Person(s) in Charge	Erkki Lähderanta, Professor, LUT University
Aims	The aim of the course is to introduce students to selected topics of advanced physics, especially in the area of nanophysics.
Content	<ul style="list-style-type: none"> - Nanophysics. - Applied superconductivity. - Ferroelectrics. - Other advanced topics in material science connected to nanophysics. <p>The course is proposed to be suitable also for doctoral studies.</p>
Modes of Study	<ul style="list-style-type: none"> - Lectures 18 h - Homework 60 h (3 essays á 20 h). <p>Total workload 78 hours</p>
Evaluation	<p>Pass/Fail</p> <p>Written assignment 100%</p>
Study Materials	To be given at lectures.