

# ELEC-E3230 Nanotechnology (5 cr), Spring 2019

## Schedule for lectures (draft)

N:o	Day	Time	Topics
1.	28.2	Thu 10-12	Introduction to course & From micro- to nanoelectronics ( <b>Harri</b> )
2.	6.3	Wed 13-15	Top-down processes: Lithography ( <b>Maria</b> )
3.	7.3	Thu 10-12	Bottom-up processes: Self-assembly & Scanning probe-based techniques ( <b>Maria</b> )
4.	13.3	Wed 13-15	Nanomaterials: Quantum dots, Fullerenes, Carbon nanotubes & 2D materials ( <b>Maria</b> )
5.	14.3	Thu 10-12	Nanobiotechnology ( <b>Harri</b> )
6.	20.3	Wed 13-15	Molecular electronics & Nanoelectronics measurement strategies ( <b>David</b> )
7.	21.3.	Thu 10-12	NEMS/MEMS & sensors ( <b>David</b> )
8.	27.3	Wed 13-15	Magnetic materials and spintronics ( <b>Nicklas</b> )
9.	28.3	Thu 10-12	Photonic crystals and plasmonics ( <b>Nicklas</b> )
10.	3.4	Wed 13-15	Optoelectronic systems ( <b>Nicklas</b> )
11.	4.4	Thu 10-12	Selected nano research topics in Micronova ( <b>external 15 min presentations</b> )
Exam 10.4		Wed 13-16	
Exam 6.5		Mon 16.30-19.30	