

Compulsory courses	Compulsory courses: Internship & MSc assignment	Deficiency courses
Solid State Matter	(Bio)Molecular Matter	Soft Matter combined with Systems

Year 1				
	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
	Characterisation	Fabrication	Design + Application	Internship
Core modules	Characterisation of Nanostructures (7.5 EC; Huijser)	Fabrication of Nanostructures (7.5 EC; Huskens)	Design project (10 EC; Tas)	Internship & Job Orientation Project (20 EC)
	Nano-Lab: Fabrication & Characterization (5 EC; Tiggelaar/Elbersen)			
	Nanoscience (5 EC; Zandvliet)	SOL: Nano-electronics	SOL: AMM IMS	
		BMM: Nanomedicine	BMM: Bionanotechn.	
		SMS: Lab on a chip	SMS: Nanofluidics	
Deficiency	Workshop Academic Skills	Matlab for pre-masters ET		
	Intro. Nanoscience	A first practical course in Electronics*		

*studenten hebben aangegeven dit vak begin Q2 te willen hebben

Year 2				
	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
	Nano-research	Master's Final Project preparation, evaluation		
Core modules		Societal Embedding		
	SOL: Nanomat. research or Nano-optics	Master's Final Project (40 EC) incl. societal embedding (3rd quarter)		
	BMM: (Bio)mol C&T			
	SMS: Adv. Colloids & Interfaces			
	Elective (5EC)	1 Elective or C.S. research group ⁵ in quarter 2, 3 or 4 (also subject from 1st year are allowed)		

Electives				
	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
Electives	Nanophysics, Zandvliet & Brocks & Golubov	Theoretical solid state Physics, Kelly	Surfaces in thin films, Wormeester	Chem. of inorg. Mat. and nanostruc., Ten Elshof Modern topics in condensed matter, Houselt, Kooij, Wormeester, Zandvliet
	Quantum optics, Pinkse		Nanophotonics, Vos	
	Biophysical techn. & molecular imaging, Otto + Blum	AMM Organic Materials Science, Vancso	Biomedical Signal Acquisition, Olthuis	
	Transducer science, Krijnen	EMstatics, Krijnen	Micro Electro Mechanical Systems (MEMS) Design, Tas & Wiegink	
	Systems-on-chip for embedded systems, Kerkhof+ Gerez+vdZee		Design Principles for Precision Mechanisms, Brouwer (ET)	

Electives	Macromolecular Nanotechnology, Vancso
n.s.	Advanced semiconductor devices, Salm