Module title	MScNano INA Research Internship Nanoprocessing and -analysis
Module type	Required elective module
Educational outcomes, competencies, qualification objectives	Students … have experienced practical training in advanced topics of nanoprocessing … gained experience with clean room processes … gained insight into possible research topics in nanoprocessing … have an idea of the scientific approach and methodology of nanoprocessing **Integrated key competencies:** Communication competency: Students have developed communication skills in scientific expert discussions and are able to work in a research team Organizational competency: Students have learned the basics of project planning and management
Types of courses, contact hours	P i 10 SWS
Contents	Participation in an actual research project conducted in the technological electronics research group Practical training in one or more of the following experimental and theoretical methods: - advanced thin-film techniques - clean room work - analysis optical properties and surface structures (e.g. white light interferometry, SEM, AFM) - processing of surface structures - lithography methods (e.g. optical lithography, nanoimprint lithography)
Course titles	Research Internship nanoprocessing and -analysis
Teaching methods	Laboratory work
Applicability	M.Sc. Nanoscience
Duration	4 weeks
Frequency	upon arrangement
Language	English
Recommended Skills	Basis knowledge in physics, chemistry, experimental work in nanotechnology on Bachelor level
Prerequisitesforparticipation	None
Studentsworkload	Contact time: 150 h, independent studies 30 h
Nongradedlearningassignments (Studienleistungen)	(implied) Participation in a research project
Prerequisites for admission to examination	None
Examination	Written report and short presentation (talk or poster) on project, weighted 1:1
Numberofcredits	6 C (including 2 C for integrated key competencies)
Responsiblecoordinator	Hillmer
Lecturer(s)	Hillmer
Media	Laboratory equipment
Literature	Special literature