Curriculum Physics M.Sc.			**Particle Physics**			**Condensed Matter Physics**			
			Experimental Particle Physics	**Astroparticle Physics and Cosmology**	**Quantum Field Theory and Gauge Theories**	**Experimental Condensed Matter Physics**	**Nanoelectronics**	**Quantum Technology**	**Condensed Matter Theory**
	class hours	**credits**							
1st Semester									
Particle Physics I	V4 Ü2	10	10	10					
Quantum Field Theory of Particle Physics I	V4 Ü2	10			10				
Theory of Relativity and Cosmology	V4 Ü2	10		10	10				
Condensed Matter Physics I	V4 Ü2	10				10	10	10	
Theoretical Solid State Physics	V4 Ü2	10							10
Quantum Theory of Condensed Matter I	V4 Ü2	10							10
Novel Materials and Devices for Information Technology 1	V2 Ü1	5					5		
Hardware Platforms for Quantum Technology	V2 Ü1	5						5	
Elective Courses (from courses above or specialization or subsidiary courses)			20	10	10	20	15	15	10
			30	**30**	**30**	**30**	**30**	**30**	**30**
2nd semester									
Particle Physics II	V4 Ü2	10	10						
Quantum Field Theory of Particle Physics II	V4 Ü2	10			10				
Astroparticle Physics	V4 Ü2	10		10					
Laboratory Course Particle Physics	V1 P8	10	10						
Condensed Matter Physics II	V4 Ü2	10				10			
Laboratory Course Solid State Physics	V2 P8	10				10			
Laboratory Course Nanoelectronics	V2 P8	10					10		
Laboratory Course Quantum Technology	V1 P4	5						5	
Quantum Theory of Condensed Matter II	V4 Ü2	10							10
Computational Physics	V4 Ü2	10							
Quantum Information	V4 Ü2	10						10	
Statistical Physics	V4 Ü2	10							
Novel Materials and Devices for Information Technology 2	V2 Ü1	5					5		
Elective Courses (from courses above or specialisation or subsidiary courses)			10	20	20	10	15	15	20
			30	**30**	**30**	**30**	**30**	**30**	**30**
3rd semester									
Master's Seminar		15	15	15	15	15	15	15	15
Master's Practical		15	15	15	15	15	15	15	15
			30	**30**	**30**	**30**	**30**	**30**	**30**
4th semester									
Master's Thesis		25	25	25	25	25	25	25	25
Master's Defence Colloquium		5	5	5	5	5	5	5	5
			30	**30**	**30**	**30**	**30**	**30**	**30**
Total			**120**	**120**	**120**	**120**	**120**	**120**	**120**