

Fall Semester (MA1/MA3)

 : Engineering courses

Code 6XX: advanced courses

	Astrophysics, Particles, High energy Physics	Plasma Physics and Energy	Physics of Biological and Complex Systems	Condensed Matter Physics	Quantum Science and Technology
6 ECTS	Quantum Field Theory I - 431	Plasma I - 423	Statistical Physics III - 435	Adv. Solid State Physics I - 419	QED & Quantum Optics - 453
	Relativity Cosmology I - 427	Machine Learning Physics - 467	Machine Learning Physics - 467	Quantum Physics III - 425	Adv. Solid State Physics I - 419
	Quantum Physics III - 425			Machine Learning Physics - 467	Quantum Computing - 541
	Machine Learning Physics - 467				Machine Learning Physics - 467
4 ECTS	Astrophysics III - 401	Nucl. Fusion&Plasma Physics - 445	Radiation biology - 450	Semiconductor Physics - 433	Semiconductor Physics - 433
	Particle Physics I - 415	Neutron scattering – 640	Stat. Ph. biomacromolecul. - 441	Physics of Materials - 307	Lasers - MICRO 422
	Intr. Particle Accelerators - 448	Microwave Eng. - QUANT 410	Biophysics: biol. sys. - 302	Microwave Eng. - QUANT 410	Quantum transport - 462
	Particle detection - 440	Radiation biology - 450	Stat. Phys. Computation - 512	Neutron scattering – 640	Microwave Eng. - QUANT 410
	Computer simulation - 403	Particle detection - 440	Computer simulation - 403	Computer simulation - 403	Math of quantum Physics - 469
	Design of Experiments - 442	Computer simulation - 403	Design of Experiments - 442	Quantum transport - 462	Computer simulation - 403
		Radiation detection - 452		Design of Experiments - 442	Design of Experiments - 442
3 ECTS				Exp. methods in Physics. - 405	Exp. methods in Physics - 405
				Frontiers in NanoSciences - 407	Frontiers in NanoSciences - 407