

OVERBYGNINGSKURSER/ADVANCED COURSES

I nedenstående skema kan du se hvornår vi forventer de enkelte kurser bliver udbudt. Hvis der står et X, så forventes kurset udbudt årligt ellers kører kurset i det år der står skrevet.

The advanced courses listed below are offered at the Department of Physics and Astronomy. Most courses are taught on a regular basis but not necessarily every year. The academic year is divided into four quarters (1st and 2nd in the fall semester and 3rd and 4th in the spring). Courses marked with an X are scheduled to run every year. Other courses are expected to be offered as indicated.

		1.kvarter 1st quarter	2.kvarter 2nd quarter	3.kvarter 3rd quarter	4.kvarter 4th quarter
F	Akustik/Acoustics				12, 14
F/A	Almen Relativitetsteori/General Relativity	11, 13			
A	Analyse af tidsserie data i astrofysikken/Time series Analysis in Astrophysics				12, 14
F	Anvendt Laserfysik/Applied Laserphysics	11, 13			
F/A	Astrofysik II/Astrophysics II - 10 ECTS semester-kursus	X	X		
F/A	Astropartikelfysik/Astroparticle Physics			12, 14	
F	Atom og molekylfysik II/Atomic and Molecular Physics II - 10 ECTS semesterkursus			X	X
F	Bløde materialers statistiske mekanik/Statistical mechanics of soft matter			12, 14	
F	DNA fotobiologi/DNA Photobiology			13, 15	
F	Dosimetri			13, ?	
F	Eksperimentel kvanteoptik/Exp. Quantum optics		X		
F	Eksperimentel optik og lasere/Experimental optics and lasers				X
F	Eksperimentel Skolefysik/Physical Experiments for Teachers – 5 ECTS semesterkursus	X		X	
F	Eksperimentel teknik/Experimental techniques		X		
F	Elektronik/Electronics			X	
A	Exoplaneter/Exoplanets	11, 13			
F	Faststoffysik II/Solid State Physics II – 10 ECTS semesterkursus	X	X		
F	Fiberoptik og kommunikation/Fiber optics and communications	X			
F	Fluid dynamik			X	
F	Grupper og symmetri i fysik (studiekreds efter behov)				
F	Halvlederfysik/Semiconductor Physics			X	
F	Integreret optik/Integrated Optics		X		
F	Introduction to Biophysics			13, 15	

F	Karakteriseringsmetoder/Characterization techniques		?		
F/A	Kernekfysik II / Nuclear Physics II – 10 ECTS semesterkursus			X	X
F	Kolde atomare og molekulære ioner/			12, 14	
F	Kolde atomer og molekyler/Cold atoms and molecules			13, 15	
F	Kvantefeltteori/Quantum Field Theory	12, 14			
F	Kvanteinformatik/Quantum Optics		12, ?		
F	Laserfysik/Laser Physics			X	
F/A	Magnetisme og Mössbauer spektroskopi			13, ?	
F	Mangelegeme-fysik/Many-Body Physics		12, 14		
F	Mangelegeme-fysik videregående/Many-Body Physics advanced (Studiekreds)				13?
F	Materialefysik/Materials Science				X
F	Moderne accelerators fysik og anvendelse/The Physics and Applications of Modern Accelerators		11, 13		
F	Molekylær fysik				13, 15
F	Nanoscience				X
F	Neurophysics		12?		
F/A	Neutrino fysik og astrofysik/Neutrino physics and astrophysics			13, 15	
F/A	Numerical Methods				X
A	Observationel kosmologi/Observational Cosmology	12, ?			
A	Observationskursus i astronomi	August?		Januar?	
F	Optical Methods applied to proteins, peptides and other biological systems				12, 14
F	Overfladefysik/Surface Physics	X			
F	Partiklers indtrængning i stof/Particle penetration in matter		12, 14		
F	Partikelfysik II/Particle Physics II – 10 ECTS semesterkursus	X	X		
F/A	Planetfysik/Planet physics		11, 13		
A	Pulserende stjerner/Pulsating Stars			12, 14	
F	Renewable Energy Systems	11, ?			
F/A	Rumfart og rumforskning/Space Research				11, 13
A	Solens aktivitet og klima				12, ?
F	Statistical Theory of Turbulence				12, ?
F	Statistisk fysik II/Statistical Physics II		X		
F/A *	Store eksperimentelle øvelser/Advanced excersices in experimental physics – individuelle aftaler 5 ECTS	X	X	X	X
F	Styring og Datatagning/Control and data collection				x

F	Ultrafast science		X		
F/A	Videregående dataanalyse (studiekreds efter behov)	11, ?			
F	Vid. Elektrodynamik/Advanced Topics in Classical Electrodynamics			13, 15	
A	Vid. Kosmologi/Advanced Cosmology		13, 15		
F	Vid. Kvantemekanik/Advanced Quantum Mechanics	X			
F	Vid. mekanik/Advanced Mechanics	11			12, X
A	Vid. Stjerneudvikling/Advanced Stellar Evolution + dele af eskpl.stadier samt kompakte stjerner 10 ECTS semesterkursus	12, 14	12,14		
F	Wind energy		11, ?		

Kandidat fysik: fysikspeciale samt F- og F/A-kurser udgør i alt mindst 90 ECTC

Astronomikandidat: astronomispeciale samt A- og F/A-kurser udgør i alt mindst 90 ECTS

*Afhængigt af indhold