

Department of Physics

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links	18/19	18/19	18/19	18/19
									sp1	sp2	sp3	sp4
EAFN25	7.5	A	BME, E, N	X	E	Atomic and Molecular Spectroscopy	KS KE U W T	1				
EKFN20	7.5	A	E	X	E	Nuclear Physics, Advanced Course	KS KE U W T	1				
EAF01	7.5	G2	BME, E, E, N	X	E	Optics and Optical Design	KS KE U W T	1				
EAF85	6	G1	IBYA	-	S	Physics	KS KE U T	1				
EAF35	6	G1	E	-	S	Physics - Thermodynamics and Atomic Physics	KS KE U W T	1				
FFFF10	7.5	G2	E, F, MSOC, N	X	E	Processing and Device Technology	KS KE U W T	1				
EMFF15	7.5	G2	E, N	-	E1	Quantum Mechanics and Mathematical Methods	KS KE U W T	1				

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									sp1	sp2	sp3	sp4
EMFN01	7.5	A	E, N	X	E1	Quantum Mechanics, Advanced Course 1	KS KE U W T	1				
FFFN30	7.5	A	E, F, MSOC, N	X	E1	Semiconductor Physics	KS KE U W T	1				
FFFN01	7.5	A	E, N	-	E	Advanced Processing of Nanostructures	KS KE U W T	1	2			
FFFN01			E, N								3	4
FAFF10	15	G2	F	-	S	Atomic and Nuclear Physics with Applications	KS KE U W T	1	2			
FAFA55	9	G1	F	-	S	Concepts in Quantum Physics	KS KE U W T	1	2			
FAFA40	8	G1	IBYI, IBYV	-	S	Physics	KS KE U T	1	2			

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									sp1	sp2	sp3	sp4
EAF05	12	G1	N	-	S	Physics - Waves, Thermodynamics and Atomic Physics	KS KE U W T	1	2			
EMF05	6	G2	F	-	S	Thermodynamics with Applications	KS KE U W T	1	2			
EAF65	7.5	G1	BME	-	S	Thermodynamics, Waves and Optics	KS KE U W T	1	2			
EFF02	7.5	G1	N	-	E	Nanoscience and Nanotechnology - an Introduction	KS KE U W T	1	-	-	4	
FKFN05	7.5	A	BME , E , F	X	E1	Experimental Tools for Subatomic Physics	KS KE U W T		2			
EAFN01	7.5	A	BME , E , F , N	X	E	Lasers	KS KE U W T		2			
EFFN05	7.5	A	E , K , N	X	E	Nanomaterials - Thermodynamics and Kinetics	KS KE U W T		2			

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EAFA10	9	G1	N	-	S	Physics - Quantum Phenomena and Nanotechnology		KS KE U W T		2		
EAFA10			E							2		
EMEN25	7.5	A	E , Pi	X	E	Statistical Mechanics		KS KE U W T		2		
FFFN35	7.5	A	E , E , N	X	E	The Physics of Low-dimensional Structures and Quantum Devices	X	KS KE U W T		2		
EMEN15	7.5	A	E	X	E1	Theory of Nuclear Structure	X	KS KE U W T	Course on hold			
EAFA45	7.5	G1	V	-	S	Thermodynamics with Applications		KS KE U W T		2		
EKFN25	7.5	A	E	X	E1	Applied Nuclear, Neutron and Reactor Physics		KS KE U W T			3	
EMFE35	7.5	G2	E , I , Pi	X	E	Complex Economy	X	KS KE U W T	Course on hold			
EAFN15	7.5	A	E , K , N	X	E	Crystal Growth and Semiconductor Epitaxy		KS KE U W T			3	

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FFFF01	7.5	G2	N	-	S	Electronic Materials		KS	KE	U	W	T	3
FAFA70	7.5	G1	W	-	S	Energy and Environmental Physics	X	KS	KE	U	W	T	3
FBRN01	7.5	A	E	X	E1	Laser-Based Combustion Diagnostics		KS	KE	U	W	T	3
FAFN05	7.5	A	E	X	E	Light - Matter Interaction		KS	KE	U	W	T	3
EMFF20	7.5	G2	N	-	S	Mathematical Methods of Nanotechnology	X	KS	KE	U	W	T	3
FFFN25	7.5	A	E, E, N	X	E	Optoelectronics and Optical Communication		KS	KE	U	W	T	3
FAFA60	5	G1	C, D	-	S	Photonics		KS	KE	U	W	T	3

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								18/19 sp1	18/19 sp2	18/19 sp3	18/19 sp4
FAFF45	8	G2	BME	-	S	Physics for Biomedicine	KS KE U W T			3	
FAFA30	8	G1	BI	-	S	Physics: Electricity - Fluids	KS KE U W T			3	
FFFF05	7.5	G2	E	-	S	Solid State Physics	KS KE U W T			3	
EMFE30	4.5	G2	E , F , Pi	-	S	Theory of Relativity	KS KE U W T			3	
EMFF01	3	G2	E	-	S	Vector Analysis	KS KE U W T			3	
FFFN20	15	A	BME , E , N	X	E	Experimental Biophysics	KS KE U W T			3	4
FKEN35	7.5	A	E , E , W	X	E	Methods for Environmental Monitoring	KS KE U W T			3	4

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EAF05	15	G2	N	-	S	Project Engineering at the Nanoscale		KS	KE	U	W	T	3	4
EAFN10	7.5	A	E, F	X	E	Advanced Optics and Lasers		KS	KE	U	W	T		4
EAF080	6	G1	M	-	S	Applied Optics and Waves		KS	KE	U	W	T		4
EKFF05	5	G2	E, W	X	E	Atmospheric Chemistry and Physics		KS	KE	U	W	T		4
EMFN05	7.5	A	BME, E, N	X	E1	Chaos		KS	KE	U	W	T		4
EAF075	9	G1	I	-	S	Energy and Environmental Physics	X	KS	KE	U	W	T		4
FBFF01	7.5	G2	E, I, K, M, W	X	E	Fundamental Combustion	X	KS	KE	U	W	T		4
EKFN30	7.5	A	F	X	E	Modern Subatomic Physics	X	KS	KE	U	W	T	Course on hold	

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EAF50	7.5	G2	E , N	-	S	Perspectives on Sustainable Development		KS	KE	U	W	T	4
EAF01	9	G1	E	-	S	Physics - Mechanics and Waves		KS	KE	U	W	T	4
ESSE20	4.5	G2	D , E	-	S	Physics of Devices		KS	KE	U	W	T	4
EAFN40	7.5	A	E , N	X	E	Quantum Information	X	KS	KE	U	W	T	4
EMFN10	7.5	A	E , N	X	E	Quantum Mechanics, Advanced Course 2		KS	KE	U	W	T	4
EAFN30	7.5	A	E , N	X	E	Scanning Probe Microscopy	X	KS	KE	U	W	T	Course on hold
EAF30	9	G2	E	-	S	Waves and Optics		KS	KE	U	T	4	
EAF40	7.5	G2	Pi	-	S	Waves and Optics		KS	KE	U	T	4	

[FFFN35](#) (E) The Physics of Low-dimensional Structures and Quantum Devices: *Re-examination set by agreement.*

[EMFN15](#) (E) Theory of Nuclear Structure: *The course is offered every other academic year and will next be offered in 2019/20.*

[EMFF35](#) (E, I, Pi) Complex Economy: *The course is offered every other academic year and will next be offered in 2019/20.*

[FAFA70](#) (W) Energy and Environmental Physics: *Signing up for labgroup at introductory lecture is compulsory.*

[EMFF20](#) (N) Mathematical Methods of Nanotechnology: *Oral examination may take place outside the regular examination period.*

[FAFA75](#) (I) Energy and Environmental Physics: *Anmälan till laborationsgrupp vid introduktionsföreläsningen är obligatorisk*

[FBRF01](#) (I) Fundamental Combustion: *Compulsory course in the elective block 'Energy and Environmental Engineering' for students admitted autumn 2015. The course is also an optional programme course.*

[FKFN30](#) (E) Modern Subatomic Physics: *The course is offered every other academic year and will next be offered in 2019/20.*

[FAFN40](#) (E, N) Quantum Information: *The course is offered every other academic year and will be given in 2018/19, 2012/21.*

[FAFN30](#) (E, N) Scanning Probe Microscopy: *The course is offered every other academic year and will next be offered in 2019/20.*

Bachelor's Projects of the Department

The list contains the bachelor's projects which are given by the department and which programme each bachelor's project is included in.

Links

Course Code	Credits	Programme	Course Name
PHYL01	15	E, E, N, Pi	Bachelor Project in Physics KS KE U

Degree Projects of the Department

The list contains the degree projects which are given by the department and which programme each degree project is included in.

Links

Course Code	Credits	Programme	Course Name	Links
PHYM01	30	BME , C , D , E , F , I , N , Pi , W	Degree Project in Physics	KS KE U W