

Department of Physics

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links	20/21	20/21	20/21	20/21
				S.Ex. stud.					sp1	sp2	sp3	sp4
EAFN25	7.5	A	BME, E, MFOT, MNAV, 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, MFOT, 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				
EFFF10	7.5	G2	E, F, MFOT, MNAV, 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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				S.Ex. stud.					20/21 sp1	20/21 sp2	20/21 sp3	20/21 sp4
EMFN01	7.5	A	E , MFOT , MNAV , N	X	E1	Quantum Mechanics, Advanced Course 1	KS KE U W T	1				
FFFN30	7.5	A	E , F , MFOT , MNAV , N	X	E1	Semiconductor Physics	KS KE U W T	1				
FFFN01	7.5	A	E , MFOT , MNAV , N	-	E	Advanced Processing of Nanostructures	KS KE U W T	1	2			
FFFN01			E , MFOT , MNAV , N							3	4	
FAFF10	15	G2	E	-	S	Atomic and Nuclear Physics with Applications	KS KE U W T	1	2			
FAFA55	9	G1	E	-	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
EAFA05	12	G1	N	-	S	Physics - Waves, Thermodynamics and Atomic Physics	KS KE U W T	1	2			
EMEF05	6	G2	E	-	S	Thermodynamics with Applications	KS KE U W T	1	2			
EAFA65	7.5	G1	BME	-	S	Thermodynamics, Waves and Optics	KS KE U W T	1	2			
FFFA02	7.5	G1	N	-	E	Nanoscience and Nanotechnology - an Introduction	KS KE U W T	1	-	-	4	
FAFN01	7.5	A	BME , E , F , MFOT , N	X	E	Lasers	KS KE U W T		2			
FAFN35	7.5	A	BME , E , F , MFOT , N , Pi	X	E	Medical Optics	KS KE U W T		2			
FFFN05	7.5	A	E , K , MNAV , 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		
EMFN25	7.5	A	E , MNAV , N , Pi	X	E	Statistical Mechanics	KS KE U W T		2		
FFFN35	7.5	A	E , F , MFOT , MNAV , N	X	E	The Physics of Low-dimensional Structures and Quantum Devices	X KS KE U W T		2		
EMFN15	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	
FAFN15	7.5	A	E , K , MNAV , N	X	E	Crystal Growth and Semiconductor Epitaxy	KS KE U W T			3	

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								20/21 sp1	20/21 sp2	20/21 sp3	20/21 sp4		
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
FBRN05	7.5	A	E , MFOT	X	E1	Laser-Based Diagnostics		KS	KE	U	W	T	3
FAFN05	7.5	A	E , MFOT , MNAV	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 , F , MFOT , MNAV , 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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								20/21 sp1	20/21 sp2	20/21 sp3	20/21 sp4
EAF45	8	G2	BME	-	S	Physics for Biomedicine	KS KE U W T			3	
EAFA30	8	G1	BI	-	S	Physics: Electricity - Fluids	KS KE U W T			3	
EFFF05	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 , MFOT , MNAV , 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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								20/21 sp1	20/21 sp2	20/21 sp3	20/21 sp4					
EAF05	15	G2	N	-	S	Project Engineering at the Nanoscale		KS	KE	U	W	T			3	4
EAFN10	7.5	A	E, F, MFOT	X	E	Advanced Optics and Lasers		KS	KE	U	W	T				4
EAF80	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
FBRN10	7.5	A	E, MFOT	X	E	Biophotonics		KS	KE	U	T					4
EMFN05	7.5	A	BME, E, N	X	E1	Chaos	X	KS	KE	U	W	T	Course on hold			
EAF75	9	G1	I	-	S	Energy and Environmental Physics	X	KS	KE	U	W	T				4
FBRF01	7.5	G2	E, I, K, M, W	X	E	Fundamental Combustion	X	KS	KE	U	W	T				4
EKFN30	7.5	A	E	X	E	Modern Subatomic Physics	X	KS	KE	U	W	T	Course on hold			

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								20/21 sp1	20/21 sp2	20/21 sp3	20/21 sp4		
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
ESS20	4.5	G2	D , E	-	S	Physics of Devices		KS	KE	U	W	T	4
EAF40	7.5	A	E , MFOT , MNAV , 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
EAF30	7.5	A	E , N	X	E	Scanning Probe Microscopy	X	KS	KE	U	W	T	Course on hold
EAF40	7.5	G2	E , 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 2021/22.*

[EAF070](#) ([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.*

[EMFN05](#) (BME, E, N) Chaos: *The course is offered every other academic year and will next be offered in 2022/23.*

[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 2021/22.*

[FAFN40](#) (E, MFOT, MNAV, N) Quantum Information: *The course is offered every other academic year and will be given in 2020/21, 2022/23.*

[FAFN30](#) (E, N) Scanning Probe Microscopy: *The course is offered every other academic year and will next be offered in 2021/22.*

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
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PHYL01	15	E , F , N , Pi , W	Bachelor Project in Physics KS KE U
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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

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PHYM01	30	BME , C , D , E , F , I , N , Pi , W	Degree Project in Physics	KS KE U W
PHYM03	30	MFOT , MNAV	Degree Project in Physics	KS KE U