

Department of Physics

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links	20/21				20/21												
				S.Ex. stud.					sp1	sp2	sp3	sp4	F	O	L	H	S	F	O	L	H	S			
FFFN05	7.5	A	E, K, MNAV, N	X	E	Nanomaterials - Thermodynamics and Kinetics		KS KE U W T			28	14	0	0	158										
FAFA10	9	G1	N	-	S	Physics - Quantum Phenomena and Nanotechnology		KS KE U W T			28	36	21	6	149										
FAFA10			E								28	12	21	20	159										
EMFN25	7.5	A	E, MNAV, N, Pi	X	E	Statistical Mechanics		KS KE U W T			32	28	4	0	136										
FFFN35	7.5	A	E, E, MFOT, MNAV, N	X	E	The Physics of Low-dimensional Structures and Quantum Devices	X	KS KE U W T			30	12	16	10	140										
EMFN15	7.5	A	E	X	E1	Theory of Nuclear Structure	X	KS KE U W T	Course on hold																
FAFA45	7.5	G1	V	-	S	Thermodynamics with Applications		KS KE U W T			42	28	16	0	114										
FKFN25	7.5	A	F	X	E1	Applied Nuclear, Neutron and Reactor Physics		KS KE U W T								14	6	15	10	155					
FAFN15	7.5	A	E, K, MNAV, N	X	E	Crystal Growth and Semiconductor Epitaxy		KS KE U W T								18	8	0	0	170					
FFFF01	7.5	G2	N	-	S	Electronic Materials		KS KE U W T								34	18	10	0	140					
FAFA70	7.5	G1	W	-	S	Energy and Environmental Physics	X	KS KE U W T								40	28	10	0	122					
FBRN05	7.5	A	E, MFOT	X	E1	Laser-Based Diagnostics		KS KE U W T								28	4	8	10	150					
FAFN05	7.5	A	F, MFOT, MNAV	X	E	Light - Matter Interaction		KS KE U W T								26	12	10	1	160					
EMFF20	7.5	G2	N	-	S	Mathematical Methods of Nanotechnology	X	KS KE U W T								34	30	12	0	124					
FFFN25	7.5	A	E, E, MFOT, MNAV, N	X	E	Optoelectronics and Optical Communication		KS KE U W T								28	14	12	0	145					
FAFA60	5	G1	C, D	-	S	Photonics		KS KE U W T								24	12	8	0	80					
FAFF45	8	G2	BME	-	S	Physics for Biomedicine		KS KE U W T								30	34	10	0	140					
FAFA30	8	G1	BI	-	S	Physics: Electricity - Fluids		KS KE U W T								42	30	12	0	129					
FFFF05	7.5	G2	F	-	S	Solid State Physics		KS KE U W T								34	14	14	0	140					
EMFF30	4.5	G2	E, E, Pi	-	S	Theory of Relativity		KS KE U W T								21	21	0	0	78					
EMFF01	3	G2	F	-	S	Vector Analysis		KS KE U W T								14	14	0	0	50					
FFFN20	15	A	BME, F, MFOT, MNAV, N	X	E	Experimental Biophysics		KS KE U W T								14	16	0	0	100	0	10	20	20	200
FKFN35	7.5	A	E, E, W	X	E	Methods for Environmental Monitoring		KS KE U W T								10	0	10	2	80	8	0	4	4	80
FAFF05	15	G2	N	-	S	Project Engineering at the Nanoscale		KS KE U W T								36	2	0	8	130	0	0	0	10	220

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									F	O	L	H	S	F	O	L	H	S	F	O	L	H	S		
FAFN10	7.5	A	E, E, MFOT	X	E	Advanced Optics and Lasers		KS KE U W T				26	12	10	0	150									
FAFA80	6	G1	M	-	S	Applied Optics and Waves		KS KE U W T				42	14	12	0	92									
FKFF05	5	G2	E, W	X	E	Atmospheric Chemistry and Physics		KS KE U W T				20	12	0	4	100									
FBRN10	7.5	A	E, MFOT	X	E	Biophotonics		KS KE U T				28	8	12	4	148									
FMFN05	7.5	A	BME, E, N	X	E1	Chaos	X	KS KE U W T	Course on hold																
FAFA75	9	G1	I	-	S	Energy and Environmental Physics	X	KS KE U W T				52	32	13	0	143									
FBRF01	7.5	G2	E, I, K, M, W	X	E	Fundamental Combustion	X	KS KE U W T				28	8	4	60	100									
FKFN30	7.5	A	F	X	E	Modern Subatomic Physics	X	KS KE U W T	Course on hold																
FAFF50	7.5	G2	E, N	-	S	Perspectives on Sustainable Development		KS KE U W T				22	32	0	10	140									
FAFA01	9	G1	E	-	S	Physics - Mechanics and Waves		KS KE U W T				48	18	18	0	150									
ESSF20	4.5	G2	D, E	-	S	Physics of Devices		KS KE U W T				30	12	8	0	70									
FAFN40	7.5	A	E, MFOT, MNAV, N	X	E	Quantum Information	X	KS KE U W T				40	0	4	4	152									
FMFN10	7.5	A	E, N	X	E	Quantum Mechanics, Advanced Course 2		KS KE U W T				28	14	0	0	150									
FAFN30	7.5	A	E, N	X	E	Scanning Probe Microscopy	X	KS KE U W T	Course on hold																
FAFF40	7.5	G2	E, Pi	-	S	Waves and Optics		KS KE U T				40	28	16	0	120									

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

[FMFN15](#) (E) Theory of Nuclear Structure: *The course is offered every other academic year and will next be offered in 2021/22.*

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

[FMFF20](#) (N) Mathematical Methods of Nanotechnology: *Oral examination may take place outside the regular examination period.*

[FMFN05](#) (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

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
PHYM03	30	MFOT , MNAV	Degree Project in Physics	KS KE U