Physics and Nanotechnology

180 credits

Fysik och nanovetenskap, kandidatprogram

6KFYN

Valid from: 2015 Spring semester

Determined by
Board of Studies for Electrical
Engineering, Physics and Mathematics

Date determined

Entry requirements

Degree in Swedish

Naturvetenskaplig kandidat, 180 hp

Curriculum

Semester 4 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAMS11	Probability and Statistics, first course	6	G2F	1	C
TDDD11	Introduction to Programming	8*	G1X	4	C
TFYA73	Modern Physics I	4	G2X	3	C
THEN18	English	6*	G1X	4	E
Period 2					
TDDD11	Introduction to Programming	8*	G1X	4	C
TFYA13	Electromagnetic Field Theory	8	G2X	2	C
TFYA74	Modern Physics II	4	G2X	1	C
THEN18	English	6*	G1X	4	E
TPTE06	Industrial Placement	6	G1X	-	E

Semester 5 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
NFYA04	Nano Scientific Project	6*	G2X	1	C
TGTU56	Communication	2*	G2F	4	C
TANA21	Scientific Computing	6	G1F	3	E
TDDC76	Programming and Data Structures	8*	G2X	2	E
TFFY54	Quantum Mechanics	6	A1X	2	E
TFYA40	Analytical Mechanics	6	A1X	4	E
Period 2					
NFYA04	Nano Scientific Project	6*	G2X	4	C
TATA45	Complex Analysis	6	G2F	1	C
TGTU56	Communication	2*	G2F	4	C
TDDC76	Programming and Data Structures	8*	G2X	2	E
TFFY70	Physics of Condensed Matter part I	6	A1X	2	E
TFYA39	Semiconductor Technology	6	A1X	3	E
TFYA60	Astronomy and Geophysics	6	G1F	3	E

Semester 6 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TFYA21	Physical Metallurgy	6	A1F	3	E
TFYA36	Chaos and Non-Linear Phenomena	6*	A1X	3	E
TFYA71	Cosmology	6*	A1X	3	E
TFYA85	Alternative Energy Sources and their Applications	6	G2X	4	E
TFYY67	Classical Electrodynamics	6	A1X	1	E
Period 2					
TGTU76	Philosophy of Science	6	G1X	4	C
TQXX10	Degree project - Bachelor's Thesis	16	G2X	-	C
TEAE01	Industrial Economics, Basic Course	6	G1X	2	E
TFMT19	Chemical Sensor Systems	6	A1X	4	E
TFYA36	Chaos and Non-Linear Phenomena	6*	A1X	2	E
TFYA38	Optoelectronics	6	A1X	3	E
TFYA71	Cosmology	6*	A1X	2	E

ECV = Elective / Compulsory /Voluntary
*The course is divided into several semesters and/or periods