Engineering Electronics

180 credits

Högskoleingenjör i elektronik

6IELK

Valid from: 2015 Spring semester

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

Date determined

Entry requirements

Degree in Swedish

Högskoleingenjör och Teknologie kandidat, 180 hp

Curriculum

Semester 4 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSTE93	Analog Circuits	6*	G2X	1	C
TBMT32	Perspectives on Biomedical Engineering	2*	G1X	3	E
TDIU11	Operating Systems	6	G2X	3	E
TMEI01	Electrical Engineering	6	G1X	3	E
TSEI10	Filters	6	G2X	2	E
TSIU04	Automatic Control, Advanced Course	4	G2X	4	E
Period 2					
TSTE93	Analog Circuits	6*	G2X	1	C
TBMT32	Perspectives on Biomedical Engineering	2*	G1X	3	E
TDDI11	Embedded Software	6	G2X	2	E
TFEI02	Wave Physics	4	G1X	4	E
THIU01	English	4	G1X	1	E
TMIU02	Man, Technology and Organization	4	G1X	2	E
TPTE06	Industrial Placement	6	G1X	-	E
TSEI07	Digital Filters	6	G2X	3	E

Specialisation: Biomedical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEI10	Filters	6	G2X	2	E
Period 2					
TFEI02	Wave Physics	4	G1X	4	E

Specialisation: Electronic Design

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEI10	Filters	6	G2X	2	E
Period 2					
TSEI07	Digital Filters	6	G2X	3	E

Specialisation: Electronics and Energy

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMEI01	Electrical Engineering	6	G1X	3	E
TSIU04	Automatic Control, Advanced Course	4	G2X	4	E

Specialisation: Embedded Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDIU11	Operating Systems	6	G2X	3	E
TSIU04	Automatic Control, Advanced Course	4	G2X	4	E
Period 2					
TDDI11	Embedded Software	6	G2X	2	E

Semester 5 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSIU03	System Design	8	G2X	4	C
TADI02	Numerical Algorithms	6	G2X	2	E
TAIU08	Calculus in Several Variables	6	G1X	3	E
TBME04	Anatomy and Physiology	6	G2X	3	E
TMMI44	Thermodynamics	6	G1X	2	E
TMMI69	Fluid Mechanics and Heat Transfer	6	G1X	3	E
TSEA29	Microcomputer, Project Laboratory	8*	G2X	3	E
TSEI03	Digital Circuits	4	G2X	2	E
TSKS02	Telecommunication	6*	G2X	1	E
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TAMS11	Probability and Statistics, first course	6	G2X	4	E
TBME03	Biochemistry and Cell Biology	6	G2X	2	E
TDDI07	Distributed Embedded Software and Networks	4	G2X	1	E
TEIO29	Leadership and Organisation	6	G1X	4	E
TGTU49	History of Technology	6	G1F	3	E
TKMJ24	Environmental Engineering	6	G1X	3	E
TSEA29	Microcomputer, Project Laboratory	8*	G2X	-	E
TSKS02	Telecommunication	6*	G2X	2	E
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E

Specialisation: Biomedical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBME04	Anatomy and Physiology	6	G2X	3	E
Period 2					
TBME03	Biochemistry and Cell Biology	6	G2X	2	E

Specialisation: Electronic Design

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEI03	Digital Circuits	4	G2X	2	E
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E

Specialisation: Electronics and Energy

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TMMI44	Thermodynamics	6	G1X	2	E
TMMI69	Fluid Mechanics and Heat Transfer	6	G1X	3	E
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E

Specialisation: Embedded Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEA29	Microcomputer, Project Laboratory	8*	G2X	3	E
TSKS02	Telecommunication	6*	G2X	1	E
TSTE25	Power Electronics	6	A1X	3	E
Period 2					
TDDI07	Distributed Embedded Software and Networks	4	G2X	1	E
TSEA29	Microcomputer, Project Laboratory	8*	G2X	-	E
TSKS02	Telecommunication	6*	G2X	2	E
TSTE26	Powergrid and Technology for Renewable Production	6	A1X	3	E

Semester 6 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSIU09	Introduction to Bachelor Thesis	4	G2X	2	C
TATA83	Calculus, several variables	6	G1X	1	E
TBMT02	Medical Imaging	6	A1F	3	E
TBMT09	Physiological Pressures and Flows	6	A1X	1	E
TDDI08	Embedded Systems Design	4	G2X	1	E
TGTU01	Technology and Ethics	6	G1X	1	E
TKMJ15	Environmental Management Strategies	6	G1F	3	E
TSEI12	Analog Circuits, second course	6	G2X	3	E
TSFS04	Electrical Drives	6	G2X	4	E
Period 2					
TQXX11	Degree project - Bachelor's Thesis	16	G2X	-	C

Specialisation: Biomedical Engineering

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TBMT02	Medical Imaging	6	A1F	3	E
TBMT09	Physiological Pressures and Flows	6	A1X	1	E

Specialisation: Electronic Design

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSEI12	Analog Circuits, second course	6	G2X	3	E
TSFS04	Electrical Drives	6	G2X	4	E

Specialisation: Electronics and Energy

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSFS04	Electrical Drives	6	G2X	4	E

Specialisation: Embedded Systems

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TDDI08	Embedded Systems Design	4	G2X	1	E

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