Communication Systems, masterprogram

120 hp

Communication Systems, Master's Programme

6MCSY

Gäller från: 2017 VT

Fastställd av
Fakultetsstyrelsen för tekniska fakulteten

Fastställandedatum
2017-01-25

Undervisnings- och arbetsformer

The program is two years long (120 ECTS).

- The first 3 semesters consist of coursework
- The final (4th) semester is dedicated to the master thesis project. The thesis project can be carried out either in the university, at a company, or abroad (the academic requirements are the same).

Programme Contents

- The first year comprises a set of compulsory courses in communication systems engineering, for example: digital communications, wireless systems, information networks, and image and audio coding.
- The second year consists of elective courses from the general area of electrical and computer engineering, mathematics and physics, and ends with a master4s thesis.
- In addition, the second year includes a compulsory project course that teaches the students project management skills and gives them the opportunity to apply their knowledge in practice in a team environment.

Förkunskapskrav

- Bachelor's degree in electrical engineering or equivalent
- 30 ECTS credits in mathematics/applied mathematics relevant to the programme including courses in linear algebra, probability theory and signals and systems
- English corresponding to the level of English in Swedish upper secondary education (English 6/B)

Examensbenämning på svenska

Master of Science (120 credits) with a major in Electrical Engineering

Examensbenämning på engelska

Master of Science (two years) with a major in Electrical Engineering

Särskild information

Övriga föreskrifter

See also common rules

Programplan

Termin 1 (HT 2017)

Kurskod	Kursnamn	Hp	Nivå	Block	VOF
Period 1					
TSDT14	Signalteori	6	A1X	1	O
TSKS01	Digital kommunikation	6*	A1X	4	O
TSKS15	Detektion och estimering av signaler	6	A1X	2	O
Period 2					
TSIN02	Internetteknik	6	A1N	1	O
TSKS01	Digital kommunikation	6*	A1X	4	O
TSRT78	Digital signalbehandling	6	A1X	2	O

Termin 2 (VT 2018)

Kurskod	Kursnamn	Hp	Nivå	Block	VOF
Period 1					
THEN24	Kommunikation, etik och hållbar utveckling	6*	G1X	-	O
TSBK08	Datakompression	6	A1N	2	O
TSKS13	Trådlös kommunikation	6	A1F	4	O
TDDD38	Avancerad programmering i C++	6*	A1N	2	V
Period 2					
THEN24	Kommunikation, etik och hållbar utveckling	6*	G1X	-	O
TSBK02	Bild- och ljudkodning	6	A1X	4	O
TSKS14	Flerantennkommunikation	6	A1F	2	O
TDDD38	Avancerad programmering i C++	6*	A1N	-	V

Termin 3 (HT 2018)

Kurskod	Kursnamn	Hp	Nivå	Block	VOF
Period 1					
TSIN01	Informationsnät	6	A1X	3	O
TSKS05	Kommunikationssystem CDIO	12*	A1X	4	O
TSKS12	Modern kanalkodning, inferens och inlärning	6	A1N	1	O
TNE071	Mikrovågsteknik	6	A1X	1	V
TSIT03	Kryptoteknik	6	A1X	2	V
Period 2					
TSKS05	Kommunikationssystem CDIO	12*	A1X	4	O
TNE083	Antennteori	6	A1X	2	V
TSEK02	Radioelektronik	6	A1X	3	V
TSKS11	Nätverk: modeller, algoritmer och tillämpningar	6	G2X	3	V

Termin 4 (VT 2019)

Kurskod	Kursnamn	Hp	Nivå	Block	VOF
Period 1					
TQXX30	Examensarbete	30*	A1X	-	O
Period 2					
TQXX30	Examensarbete	30*	A1X	-	O

Hp = Högskolepoäng
VOF = Valbar / Obligatorisk / Frivillig
*Kursen läses över flera perioder