Communication and Transportation Engineering, M Sc in Engineering

300 credits

Civilingenjör i kommunikation, transport och samhälle

6CKTS

Valid from: 2014 Spring semester

Determined by
Board of Studies for Industrial Engineering and Logistics

Date determined

Entry requirements

Degree in Swedish

Civilingenjör 300 hp och Teknologie master 120 hp

Curriculum

Semester 6 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNG041	Scientific Methodology, Criticism of the Sources and Report Writing	2	G2X	4	C
TNK089	Discrete-Event Simulation	6	G2X	2	C
TNK093	Mobile Communication	6*	G2X	1	C
TNK111	Communication and Transportation - project	16*	G2X	3	C
Period 2					
TNK093	Mobile Communication	6*	G2X	4	C
TNK111	Communication and Transportation - project	16*	G2X	1	C

Semester 7 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIO87	Project Management	6*	G2X	1	C
TNK106	Positioning Systems	6	A1X	2	C
TGTU01	Technology and Ethics	6	G1X	4	E
THEN09	Advanced English	6*	G2X	4	E
TNK051	Planning of Air Traffic	6	A1X	3	E
TNK091	Traffic Safety Management	6	A1X	3	E
TNK104	Applied Optimization I	6	A1X	4	E
Period 2					
TDDC28	Applications of Discrete-Event Simulation	6	A1X	3	C
TEIO87	Project Management	6*	G2X	1	C
THEN09	Advanced English	6*	G2X	4	E
TMQU08	Quality and Business Development	6	G2X	2	E
TNG033	Programming in C++	6	G2X	3	E
TNK105	Applied Optimization II	6	A1X	3	E
TNK115	Smart Cities	6	A1X	4	E

Specialisation: Master Profile Quantitative Logistics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNK104	Applied Optimization I	6	A1X	4	C

Semester 8 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TEIO05	Basic Entrepreneurship and Idea Feasibility Analysis	6*	G2X	2	E
TNK087	Data Communication and the Internet	6	A1X	4	E
TNK095	Traffic Planning and Simulation	6	A1X	2	E
TNK099	Logistics Networks and Transports	6	A1X	3	E
TNKA08	Rhetoric	6	G1X	1	E
Period 2					
TEIO05	Basic Entrepreneurship and Idea Feasibility Analysis	6*	G2X	3	E
TNG016	Engineering Applications Using Matlab	6	A1X	4	E
TNK080	Wireless Communication Systems	6	A1X	1	E
TNK096	Traffic Demand Modelling	6	A1X	2	E
TNK100	Logistics Resource Planning	6	A1X	3	E

Specialisation: Master Profile Data- and Telecommunication

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNK087	Data Communication and the Internet	6	A1X	4	C
Period 2					
TNK080	Wireless Communication Systems	6	A1X	1	C

Specialisation: Master Profile Quantitative Logistics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNK099	Logistics Networks and Transports	6	A1X	3	C
Period 2					
TNK100	Logistics Resource Planning	6	A1X	3	C

Specialisation: Master Profile Traffic Informatics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNK095	Traffic Planning and Simulation	6	A1X	2	C
Period 2					
TNK096	Traffic Demand Modelling	6	A1X	2	C

Semester 9 (Autumn 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNK051	Planning of Air Traffic	6	A1X	3	E
TNK092	Network Simulation	6	A1X	3	E
TNK101	Traffic Engineering and Control	6	A1X	1	E
TNK104	Applied Optimization I	6	A1X	4	E
TNSL15	Logistics and Sustainable Development	6	G2X	2	E
Period 2					
TNK103	Analysis of Communication and Transport Systems	6	A1X	1	C
TNK098	Planning of Public Transportation and Railway Traffic	6	A1X	4	E
TNK105	Applied Optimization II	6	A1X	3	E
TNK114	Logistics in Supply Chains	6	A1X	2	E

Specialisation: Master Profile Data- and Telecommunication

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNK092	Network Simulation	6	A1X	3	C
Period 2					
TNK103	Analysis of Communication and Transport Systems	6	A1X	1	C

Specialisation: Master Profile Quantitative Logistics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 2					
TNK103	Analysis of Communication and Transport Systems	6	A1X	1	C

Specialisation: Master Profile Traffic Informatics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TNK101	Traffic Engineering and Control	6	A1X	1	C
Period 2					
TNK103	Analysis of Communication and Transport Systems	6	A1X	1	C

Semester 10 (Spring 2019)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TQXX33	Degree project - Master's Thesis	30*	A1X	-	C
Period 2					
TQXX33	Degree project - Master's Thesis	30*	A1X	-	C

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