



Programme syllabus

Bachelor's Programme in Information and Communication Technology

Kandidatprogram, informations- och kommunikationsteknik

180.0 credits

Valid for students admitted to the education from autumn 07 (HT - Autumn term; VT - Spring term).

This is a translation of the Swedish, legally binding, programme syllabus.

Programme objectives

Knowledge and understanding

Skills and abilities

Ability to make judgements and adopt a standpoint

Extent and content of the programme

Eligibility and selection

Implementation of the education

Courses

The programme is course-based. Lists of courses are included in [appendix 1](#).

Grading system

Courses in the first and the second cycle are graded on a scale from A to F. A-E are passing grades, A is the highest grade. The grades pass (P) and fail (F) are used for courses under certain circumstances.

[Appendix 1 - Course list](#)

[Appendix 2 - Programme syllabus descriptions](#)



Appendix 1: Course list

Bachelor's Programme in Information and Communication Technology (TKOMK),
Programme syllabus for studies starting in autumn 2007

General courses

Year 1

Mandatory courses (60.0 credits)

Course code	Course name	Credits	Edu. level
ID1004	Object-oriented Programming	7.5	First cycle
ID1005	Algorithms and Data Structures	7.5	First cycle
IE1204	Digital Design	7.5	First cycle
II1300	Engineering Skills	7.5	First cycle
IS1200	Computer Hardware Engineering	7.5	First cycle
IX1300	Introduction in Mathematics	7.5	First cycle
IX1303	Algebra and Geometry	7.5	First cycle
IX1304	Calculus	7.5	First cycle

Optional courses

Course code	Course name	Credits	Edu. level
II1310	Introduction to Computer Studies	1.5	First cycle

Year 2

Mandatory courses (52.5 credits)

Course code	Course name	Credits	Edu. level
ID1218	Applied Programming	7.5	First cycle
IK1203	Networks and Communication	7.5	First cycle
IS1350	Operating Systems	7.5	First cycle

Course code	Course name	Credits	Edu. level
IV1013	Introduction to Computer Security	7.5	First cycle
IV1301	IT Project, Part 1-Method	7.5	First cycle
IX1500	Discrete Mathematics	7.5	First cycle
IX1501	Mathematical Statistics	7.5	First cycle

Conditionally elective courses

Course code	Course name	Credits	Edu. level
ID1003	Project IT	7.5	First cycle
IS1204	IT Project Course, part 2	7.5	First cycle

Year 3

Mandatory courses (13.5 credits)

Course code	Course name	Credits	Edu. level
DD1364	Database Technology	7.5	First cycle
IV1007	Relational Database Technology	6.0	First cycle

Conditionally elective courses

Course code	Course name	Credits	Edu. level
DD1352	Algorithms, Data Structures and Complexity	9.0	First cycle
DD1361	Programming Paradigms	7.5	First cycle
DD2385	Software Engineering	6.0	Second cycle
DD2431	Machine Learning	6.0	Second cycle
DH2418	Language Engineering	6.0	Second cycle
DH2620	Human-Computer Interaction, Introductory Course	6.0	Second cycle
IC1000	Human-Computer Interaction	6.0	First cycle
ID1217	Concurrent Programming	7.5	First cycle
ID2202	Compilers and Execution Environments	7.5	Second cycle
ID2207	Modern Methods in Software Engineering	7.5	Second cycle
ID2212	Network Programming with Java	7.5	Second cycle
ID2216	Developing Mobile Applications	7.5	Second cycle

Course code	Course name	Credits	Edu. level
IK1550	Internetworking	6.0	First cycle
IK2206	Internet Security and Privacy	7.5	Second cycle
IX1372	Commercial Law with Environmental and Work Law	7.5	First cycle
ME1004	Industrial Management, Basic Course	6.0	First cycle



Appendix 2: Specialisations

Bachelor's Programme in Information and Communication Technology (TKOMK),
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This programme has no specialisations.