

Preliminary syllabus for the academic year 2026-2027
Bachelor's Programme in Computer Science

Code	Course unit name	Scope (cr)	Teaching periods	Method of teaching	Teaching languages	Open to exchange students	Open to students from other degree programmes	Open university teaching	Open university teaching fees
Basic Studies									
TKT10002	Introduction to Programming	5 cr	1	Distance teaching (time-bound) or online teaching	Finnish	No	Yes	No	-
TKT10002	Introduction to Programming	5 cr	all year around	Distance teaching (time-bound) or online teaching	Finnish	No	Yes	Yes	Mooc, free (open university route)
TKT10003	Advanced Course in Programming	5 cr	2	Distance teaching (time-bound) or online teaching	Finnish	No	Yes	No	-
TKT10003	Advanced Course in Programming	5 cr	all year around	Distance teaching (time-bound) or online teaching	Finnish	No	Yes	Yes	Mooc, free (open university route)
TKT10002	Introduction to Programming	5 cr	1	Blended teaching	Svedish	No	Yes	Yes	Mooc, free, open university route
TKT10003	Advanced Course in Programming	5 cr	2	Blended teaching	Svedish	No	Yes	Yes	Mooc, free (open university route)
TKT10004	Introduction to Databases	5 cr	1	Blended teaching	Finnish	No	Yes	No	-
TKT10004	Introduction to Databases	5 cr	3	Blended teaching	Finnish	No	Yes	No	-
TKT10004	Introduction to Databases	5 cr	May	Blended teaching	Finnish	No	Yes	No	-
TKT100041	Introduction to Databases: SQL language	3 cr	1	Online teaching	Finnish	No	Yes	Yes	Mooc, free (open university route)
TKT100041	Introduction to Databases: SQL language	3 cr	2	Online teaching	Finnish	No	Yes	Yes	Mooc, free (open university route)
TKT100041	Introduction to Databases: SQL language	3 cr	May	Online teaching	Finnish	No	Yes	Yes	Mooc, free (open university route)
TKT100042	Introduction to Databases: project and exam	2 cr	1	Blended teaching	Finnish	No	Yes	Yes	Free (open university route)
TKT100042	Introduction to Databases: project and exam	2 cr	2	Blended teaching	Finnish	No	Yes	Yes	Free (open university route)
TKT100042	Introduction to Databases: project and exam	2 cr	May	Blended teaching	Finnish	No	Yes	Yes	Free (open university route)
TKT10008	Data Structures and Algorithms I	5 cr	3	Blended teaching	Finnish	No	Yes	Yes	-
TKT10007	Foundations of Artificial Intelligence	5 cr	2	Contact teaching	Finnish/Swedish	No	Yes	Yes, quota for 10 students	15 €/ credit point
Intermediate studies									
TKT20005	Models of Computation	5 cr	1	Contact teaching	Finnish	No	No	Yes, quota for 10 students	30 €/ credit point
TKT20006	Software Engineering	5 cr	2	Contact teaching	Finnish	No	No	Yes, quota for 20 students	30 €/ credit point
TKT20007	Software Lab	10 cr	1-2	Contact teaching	Finnish	No	No	Yes, quota for 10 students	30 €/ credit point
TKT20007	Software Lab	10 cr	3-4	Contact teaching	Finnish	No	No	Yes, quota for 10 students	30 €/ credit point
TKT20007	Software Lab	10 cr	summer 2026	Contact teaching	Finnish	No	No	Yes, quota for 10 students	30 €/ credit point
TKT200012	Data Structures and Algorithms II	5 cr	4	Blended teaching	Finnish	No	Yes	Yes	Free (open university route)
TKT20020	Computer and Internet	5 cr	1-2	Contact teaching	Finnish	No	Yes	No	-
TKT20016	Computing platforms	5 cr	3	Blended teaching	Lectures in English, exercise groups in English and Finnish	Yes	Yes	Yes, quota for 20 students	30 €/ credit point
TKT20019	Databases and Web Programming	5 cr	1	Blended teaching	Finnish	No	Yes	No	-
TKT20019	Databases and Web Programming	5 cr	2	Blended teaching	Finnish	No	Yes	No	-
TKT20019	Databases and Web Programming	5 cr	3	Blended teaching	Finnish	No	Yes	No	-
TKT20019	Databases and Web Programming	5 cr	4	Blended teaching	Finnish	No	Yes	No	-
TKT20019	Databases and Web Programming	5 cr	May-June	Blended teaching	Finnish	No	Yes	No	-
TKT20019	Databases and Web Programming	5 cr	July-August	Blended teaching	Finnish	No	Yes	No	-

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TKT200091	Cyber Security Base: Introduction to Cyber Security	1 cr	1-2	Online teaching	English	No	Yes, to students with competitions for TKT200092 or TKT200093	No	-
TKT200092	Cyber Security Base: Securing Software	3 cr	1-2	Online teaching	English	No	Yes, to students with competitions for TKT200091 or TKT200093	No	-
TKT200093	Cyber Security Base: Course Project I	1 cr	1-2	Online teaching	English	No	Yes, to students with competitions for TKT200091 or TKT200092	No	-
TKT200094	Introduction to Cyber Security: MOOC	3 cr	1-2	Online teaching	English	Yes	Yes	Yes	Free (MOOC)
TKT200095	Introduction to Cyber Security: Exam	2 cr	1-2	Exam	English	Yes	Yes	Yes	30 €/ credit point
TKT200151	Computing and Society: an introduction	2 cr	1-4	Online teaching	Finnish, English	Yes	Yes	Yes	Free (open university route)
TKT200153	Computing and Society (contact teaching)	3 cr	1-2	Contact teaching	Finnish, (integrated English studies)	No	Yes	No	-
TKT200152	Computing and Society: continuation course (online)	3 cr	4	Online teaching	English	Yes	Yes	Yes	Free (open university route)
TKT20010	Algorithms and Artificial Intelligence Project	4 cr	1	Laboratory work	Finnish, English	Yes	Yes	No	-
TKT20010	Algorithms and Artificial Intelligence Project	4 cr	2	Blended teaching	Finnish, English	Yes	Yes	No	-
TKT20010	Algorithms and Artificial Intelligence Project	4 cr	3	Blended teaching	Finnish, English	Yes	Yes	No	-
TKT20010	Algorithms and Artificial Intelligence Project	4 cr	4	Blended teaching	Finnish, English	Yes	Yes	No	-
TKT20010	Algorithms and Artificial Intelligence Project	4 cr	May-June	Blended teaching	Finnish, English	Yes	Yes	No	-
TKT20010	Algorithms and Artificial Intelligence Project	4 cr	July-August	Blended teaching	Finnish, English	Yes	Yes	No	-
TKT20012	Data Communication Project	4 cr	4	Contact teaching	Finnish, English	No	No	No	-
DATA15001	Introduction to Artificial Intelligence	5 cr	2	Contact teaching	English	Yes	Yes	Yes, quota for 20 students	30 €/ credit point
TKT20018	Intermediate Studies Project: Software Development Methods	4 cr	4	Contact teaching	Finnish	No	Yes	Yes, quota for 10 students	30 €/ credit point
TKT20017	Bachelor's Seminar	2 cr	1-2	Blended teaching	Finnish	No	No	Course unit is only for degree students in curriculum 26-30	-
TKT20017	Bachelor's Seminar	2 cr	3-4	Blended teaching	Finnish	No	No	Course unit is only for degree students in curriculum 26-30	-
TKT20013	Bachelor's Thesis	6 cr	1-2	Blended teaching	Finnish	No	No	Course unit is only for degree students in curriculum 23-26	-
TKT20013	Bachelor's Thesis	6 cr	3-4	Blended teaching	Finnish	No	No	Course unit is only for degree students in curriculum 23-26	-
Optional Intermediate studies		-	-	-	-	-	-	-	-
TKT21004	Computer Architecture	5 cr	4	Lectures	English	No	Yes	Course unit is only for degree students.	-
TKT21032	Competitive Programming Training 1	3 cr	all year around	Distance teaching	Finnish	No	Yes	Course unit is only for degree students.	-
TKT21033	Competitive Programming Training 2	2 cr	all year around	Distance teaching	Finnish	No	Yes	Course unit is only for degree students.	-

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TKT21034	Competitive Programming Training 3	3 cr	all year around	Distance teaching	Finnish	No	Yes	Course unit is only for degree students.	-
TKT21035	Competitive Programming Training 4	2 cr	all year around	Distance teaching	Finnish	No	Yes	Course unit is only for degree students.	-
TKT21029	Functional Programming I	5 cr	all year around	Distance teaching	English	Yes	Yes	Course unit is both for degree students and open university studies.	Mooc, free
TKT21030	Functional Programming II	5 cr	all year around	Distance teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT210281	Elements of AI: Building AI - Intermediate	1 cr	all year around	Online teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT210282	Elements of AI: Building AI - Advanced	1 cr	all year around	Online teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT21031	Ethics of AI	2 cr	all year around	Online teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT21036	DevOps with Docker	1 cr	4	Distance teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT21037	DevOps with Docker: docker-compose	1 cr	4	Distance teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT21038	DevOps with Docker: security and optimization	1 cr	4	Distance teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT21039	Core 5G and Beyond	2 cr	all year around	Online teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT21040	Test-Driven Development	4 cr	3	Online teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
TKT21041	Test-Driven Development: Full Stack	1 cr	3	Online teaching	English	Yes	Yes	Will be published later in April.	Mooc, free
Other studies	-	-	-	-	-	-	-	-	-
TKT50004	Academic skills	1 cr	1, 4	Contact teaching	Finnish	No	No	No	-
TKT500031	Computing Tools for CS Studies	1 cr	summer, 1-2	Online teaching	Finnish, English	Yes	Yes	No	-
TKT500031	Computing Tools for CS Studies	1 cr	3-4, summer	Online teaching	Finnish, English, Finnish, Swedish,	Yes	Yes	No	-
TKT21018	Elements of AI: Introduction to AI	2 cr	all year around	Online teaching	English	Yes	Yes	Yes	Mooc, free
EIS-001	Entrepreneurship	2 cr	periods 1.-4.	Online teaching	English	Yes	Yes	No	
EIS-002	From Idea to Innovation - The Product Development Journey	2 cr	periods 1.-4.	Online teaching	English	Yes	Yes	No	
EIS-003	Basics of Entrepreneurship - How to Start and Run a Company	2 cr	periods 1.-4.	Online teaching	English	Yes	Yes	No	
EIS-004	IP 360°: Exploring the Full Sphere of Intellectual Property	2 cr	periods 1.-4.	Online teaching	English	Yes	Yes	No	
EIS-005	Business Model Canvas - Design your Company	2 cr	periods 1.-4.	Online teaching	English	Yes	Yes	No	
Study modules	-	-	-	-	-	-	-	-	-
TKT11	Computer Science, Basic studies	25	1-4.	Blended teaching	Finnish, Swedish	No	Yes	Yes, see the information of the individual courses.	Look at the information of the individual courses.
TKT88	Computer Science, Intermediate studies	35	1-4.	Blended teaching	Finnish, Swedish, English	No	Yes	Yes, see the information of the individual courses.(some of the courses are only offered as separate studies	Look at the information of the individual courses.