

Master's Programme in Computer Science – Replacement Courses

If you have already completed the equivalent of one of the mandatory courses in the Computer Science Master's programme, you can apply to take a replacement course instead. Like all mandatory courses, the replacement course must contribute to a broad education in Computer Science. The following list contains the only courses, which are approved to be used as replacement courses.

NOTE: your replacement course cannot be part of your track. For example: If you choose the replacement course *DD2410, Introduction to robotics*, you cannot choose the track *Cognitive systems* where the course is included. The course has to be completely separate from your track.

Make sure that you fulfill the necessary prerequisites for the replacement course. Please note that some courses are only available to student's admitted to the master's programme.

You must contact the Master Coordinator with evidence that you have completed the course that corresponds to one of the mandatory courses (transcript and syllabus).

List of courses (grouped according to the period in which they are given):

P1:

DD2257 Visualization 7.5 credits

DD2421 Machine Learning 7.5 credits

DD2443 Parallel and Distributed Computing 7.5 credits (only available for students on a master's programme)

DD2452 Formal Methods 7.5 credits (NOTE: only given every other year) (only available for students on a master's programme)

DD2488 Compiler Construction 9.0 credits (only available for students on a master's programme)

ID2201 Distributed Systems, Basic Course 7.5 credits

ID2221 Data-Intensive Computing 7.5 credits¹

IL2206 Embedded Systems 7.5 credits

P2:

ID2222 Data Mining 7.5 credits^{1 2}

DD2423 Image Analysis and Computer Vision 7.5 credits

IL2230 Hardware Architectures for Deep Learning 7.5 credits

ID2223 Scalable Machine Learning and Deep Learning 7.5 credits¹

DD2487 Large-Scale Software Development 7.5 credits (only available for students on a master's programme)

P3:

DD2437 Artificial Neural Networks and Deep Architectures 7.5 credits

IS2202 Computer Systems Architecture 7.5 credits

DD2258 Introduction to Visualization, Computer Graphics and Image/Video Processing 7.5 credits

DD2421 Machine Learning 7.5 credits

DD2480 Software Engineering Fundamentals 7.5 credits

DD2459 Software Reliability 7.5 credits

DD2477 Search Engines and Information Retrieval Systems 7.5 credits

DD2520 Applied Cryptography 7.5 credits

DD2363 Methods in Scientific Computing 7.5 credits

DD2358 Introduction to High Performance Computing 7.5 credits

P4:

DD2482 Automated Software Testing and DevOps 7.5 credits

ID2211 Data Mining, Basic Course 7.5 credits²

DH2323 Computer Graphics and Interaction 6.0 credits

DD2373 Automata and Languages 7.5 credits (NOTE: only given every other year)

DD2424 Deep Learning in Data Science 7.5 credits (only available for students on a master's programme)

DD2356 Methods in High Performance Computing 7.5 credits

DD2481 Principles of Programming Languages 7.5 credits

DD2557 Program Semantics and Analysis 7.5 credits (NOTE: only given every other year) (only available for students on a master's programme)

DD2460 Software Safety and Security 7.5 credits (only available for students on a master's programme)

DD2417 Language Engineering 7.5 credits

¹ ID2221, ID2222 and ID2223 cannot be combined as replacement courses.

¹² ID2211 and ID2222 cannot be combined as replacement courses.