2 YEAR PROGRAMME

Master’s degree in Computer Science 120 cr

Advanced studies in computer science 80 cr
- Core studies 15 cr
- Study track specific studies 30 cr
- CS colloquium 5 cr
- Master’s thesis 30 cr

Other studies 40 cr
Core studies 15 cr
2 courses offered by each study track
-> pick 3 courses from 6 options

Algorithms
- Discrete algorithms 15 cr
- Machine learning 15 cr

Networking and services
- Networking 15 cr
- Security 15 cr
- Collaborative and Interoperable systems 15 cr
- Human Computer Interaction 15 cr

Software systems
- Software engineering 15 cr
- Programming techniques 15 cr
- Data management 15 cr
• Master’s thesis presentations
• PhD student presentations
• Research talks
• Project presentations
• Invited talks
• Academic writing / peer review
PATH TO MASTER’S THESIS

- Core studies -> study track -> module -> seminar -> thesis

  CS colloquium guides the process

- Seminars 5 cr
  - Like earlier 3 cr seminars but with more content
  - Like earlier 3 cr seminars but with an associated hands-on project

- Master’s thesis 30 cr
  - As good as before but can be shorter, targeting average ~45 pages
CORE COURSES

- Pick any 3 of the following:
  - Design and Analysis of Algorithms
  - Introduction to Machine Learning
  - Distributed Systems
  - Networked Systems and Services
  - Introduction to Big Data Management
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MODULES FOR OTHER PROGRAMMES

- Advanced Module in Computer Science, 15 cr, 25 cr, 35 cr,…
- Any collection of advanced courses in CS

- No compulsory seminar here
- CS students can also include one of these as secondary module in addition to the main module that includes a compulsory seminar
TRANSFER OPTIONS (INSIDE UNIV. HELSINKI)...

- ... from current Study Programmes:
  - BSc CS

- ... from new BSc Programmes
  - BSc CS
  - BSc Mathematical Sciences, theoretical CS track
  - BSc Mathematical Sciences, mathematics track, if studies include
    - basic studies in CS 25 cr
    - intermediate studies in CS 35 cr