

MASTER TRACK

# Information Security Technology (IST)

TU/e

EINDHOVEN  
UNIVERSITY OF  
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TUE.NL

From unauthorized access to malicious manipulation, the threats that exist when storing or sending electronic data are on the increase. Data security and system security are of ever greater importance. The IST master track provides the essential tools for digital security.

## Program structure

### Mandatory courses

Cryptology	5 EC
Software Security	5 EC
Principles of Data Protection	5 EC
Cyberattacks Crime and Defenses	5 EC
Advanced Network Security	5 EC
Seminar IST	5 EC

### IST electives (≥15 EC)

Cryptographic Protocols	5 EC
Applied Cryptography	5 EC
Physical Aspects of Digital Security	5 EC
Verification of Security Protocols	5 EC
Advanced Algorithms	5 EC
Intrusion Detection Laboratory	5 EC
Master project	40 EC
Free electives	

Total ≥120 EC

## Schedule

### Q1

2MMC10 Cryptology
2IMS25 Principles of Data Protection
2IMS10 Physical Aspects of Digital Security (can also be taken in Q5)
2IMA10 Advanced Algorithms (can also be taken in Q5)

### Q2

2DMI20 Software Security
2IMS20 Cyberattacks Crime and Defenses
2DMI10 Applied Cryptography

### Q3

2IMS30 Advanced Network Security
2DMI00 Cryptographic Protocols
2IMS15 Verification of Security Protocols
Intrusion Detection Laboratory

### Q4

2IMS00 Seminar IST
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### Q5

2IMS10 Physical Aspects of Digital Security (can also be taken in Q1)
2IMA10 Advanced Algorithms (can also be taken in Q1)