

INSTITUTION

Name	Rotterdam University of Applied Sciences\
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DEGREE PROGRAMME

Name of programme	Technical Computer Science	CROHO	220J-34475
Location	Rotterdam		
Educational level	Bachelor's degree	Qualification	BSc
Prior knowledge	HAVO N+G / N+T / VWO / MBO-4	Study load	240 ECTS
Type of programme	Full-time	Funded	Yes
Category	Technology	Has been offered since	the 1990s

DESCRIPTION

During the degree programme technical computer science at Rotterdam University of Applied Sciences, you are trained to be a secure developer. From the basics of programming to the writing of complex programs and from the construction of a simple circuit to a fully-fledged prototype. Development takes centre stage in this degree programme, because our students will make the software and products of tomorrow and it is important that these are not full of holes. Security is therefore a recurring quality attribute in all technical modules and projects. You not only learn secure development, but you also learn about the consequences when it is lacking.

SUBJECTS (cybersecurity related)

Organisation	ECTS
Organisational studies and change management	
Governance	1
Project management	4
Financial management	
Review and audit	2
Risk and information security management	1
Security architecture	2
Identity & access management	
Business continuity management	
Legislation and compliance	1
Specialisations:	
People and Behaviour	ECTS
Psychology	
Organisational psychology / culture	
Awareness	2
Human failure	
Ethics	
Cybercrime	1
Social engineering	2
Crisis management	
Specialisations:	

Technology	ECTS
Information technology (without security)	42
• computer systems	14
• networks	5
• software	20
• data	3
IT security	11
• computer systems	3
• networks	3
• software	4
• data	1
Malware / fraud / hacking technology	2
• computer systems	1
• networks	1
• software	
• data	
Cryptography	1
Digital forensic research	1
ICS / SCADA	
Monitoring and analysis	1
Privacy	
IoT – Internet of Things	

INTERNSHIP / ELECTIVE MODULES

Internship/ graduation / project	110 ECTS
Internship	30
Graduation	30
Projects	38
Specialisation project	12

Elective modules (minors, elective modules, etc.)	42 ECTS
Minor Security labs	30
Elective subjects	12

COMPETENCES

Basic competences (14 ECTS)	
HBO-i profile (based on eCF): Analysing, advising, designing, realising and managing	Technical writing, presenting, meeting
Dutch, English	Collaborating, investigating, opinion forming
Mathematics (5 ECTS)	Interdisciplinary working, entrepreneurship
	Learning skills
	Business skills (9 ECTS)