



Cyber Security and Resilience

Systems and Network Security | Security Analysis | Security
Technologies | Cyber Resilience Management

Master | Dual | English

Cyber Security and Resilience

The development and operation of secure and resilient information systems is a basic requirement for the functioning of our digital society. The English-language study programme ideally prepares you for a job in the field of cyber security and resilience and offers you the best career opportunities – both at home and abroad. Cyber Security and Resilience aims at providing you with the necessary knowledge to develop and operate secure and resilient information systems and digital services.

Study Content

The dual structure of the master degree programme allows our students to put their acquired know-how into practice directly at our partner companies. In this way, you achieve the best possible learning outcomes and you are well prepared for current cyber security challenges.

Focus of the curriculum:

- **Organisational Security and Resilience**
is concerned with organisational security measures, standards and best practices as well as risk and resilience management
- **Technical Security and Resilience**
deals with the technical protection of information systems and the analysis of vulnerabilities and security incidents
- **Applied Security Competence (Dual Project)**
supports students in putting their knowledge into practice with company partners
- **Future Work Skills**
promotes the transfer of knowledge in areas such as conversation techniques during audits, data analysis skills or personnel management
- **Diploma Thesis/Master Thesis**
enables students at the end of their studies to focus on an individually chosen topic

Top Career Opportunities

Recent studies have shown that experts in the field of cyber security and resilience are in urgent demand. After completing this study programme, you will be a sought-after specialist with various different career opportunities and professional prospects.

Possible occupational fields include:

- (Chief) Information Security Officer
- Cyber Defense Analyst
- Security Consultant
- IT Forensic Expert
- Cyber Risk Manager
- Information Security Auditor
- Cyber Resilience Specialist
- Data Protection Officer



Academic degree

Master of Science in
Engineering (MSc)



Study places/year

30



Academic Director

FH-Prof. Mag. Dr.
Simon Tjoa



International

It is possible to spend a
semester abroad at an
international partner university



Questions?

csc@fhstp.ac.at
+43/2742/313 228-200



Current course schedule

fhstp.ac.at/mcr

About the Study Programme

Dual learning

The design as a dual-system programme offers you not only a comprehensive theoretical education but also participation in real projects at companies and partner institutions. An education at the highest scientific level in combination with a strong practical orientation provides you with excellent career opportunities.

Modern infrastructure

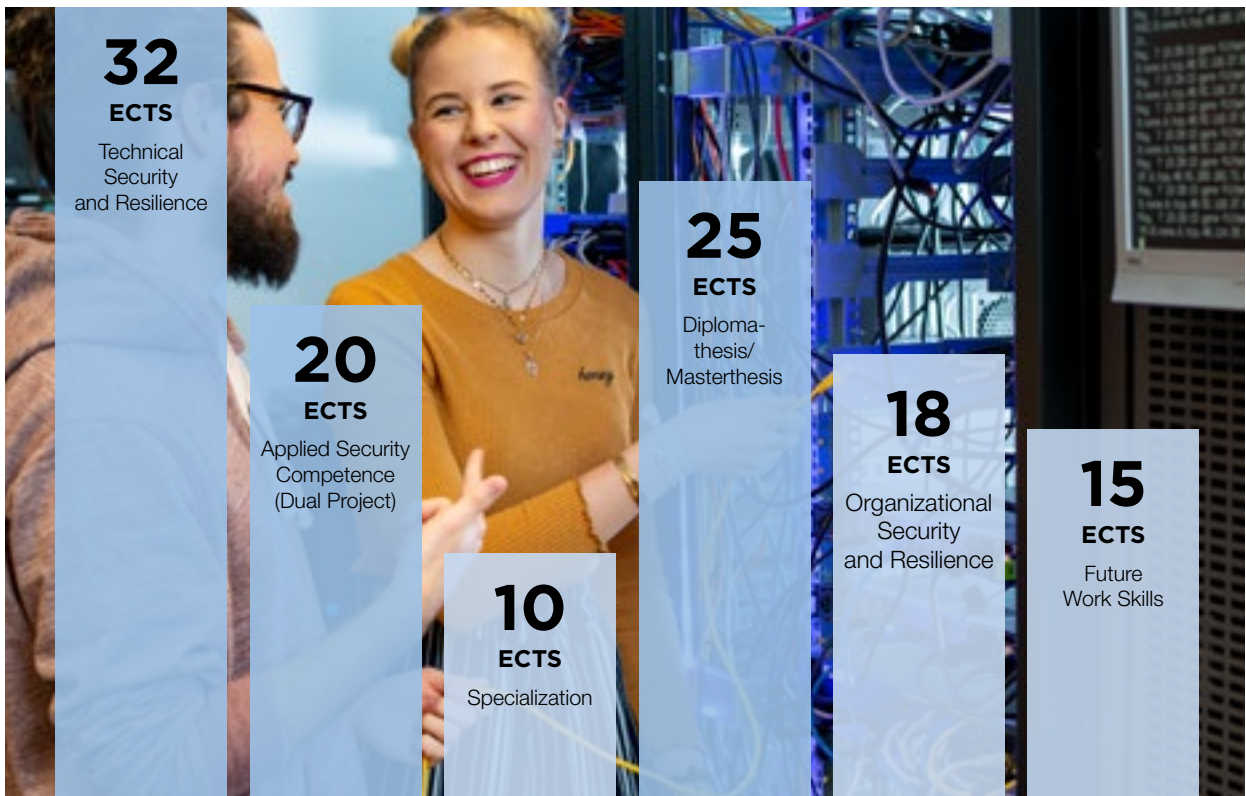
High-quality technical equipment and four modern network technology labs offer you every possibility to explore your talents and interests. Thanks to VPN solutions, as a student you can use all resources outside the campus as well.

Blocked courses

This type of teaching enables you to focus on one subject at a time and ensures a balanced workload and an even distribution of the tasks.

Linguistic competence

The fact that the teaching language is English promotes your skills of expression. Equipped with profound knowledge and linguistic competencies, you are well prepared for a career in the international field of cyber security and resilience.



Curriculum

1st year of studies

1 st semester	ECTS
Network Security Components	5
Privacy & Cryptography	5
Information Security Management	5
Presentation	1
Cyber Risk & Resilience Management	4
Software Security	4
Agile Project Management	1
Data Science	5

2 nd semester	ECTS
Digital Forensics and Incident Handling	4
Professional Report Writing	1
Threat Modeling & Information Sharing	5
Application Security & Pentesting	5
Security Auditing	4
Audit Interview Skills	1
Secure Networks	5
Mentoring: Risk Management	1
Dual Project: Risk Management	4

2nd year of studies

3 rd semester	ECTS
Specialization 1	5
Specialization 2	5
Cloud Computing Security	4
Presentation	1
Mentoring: Security Auditing & Testing	1
Dual Project: Security Auditing & Testing	6
Mentoring: Specialization	1
Dual Project: Specialization	7

4 th semester	ECTS
Leadership	3
Complex Problem Solving	2
Master Exam	2
Master Thesis & Diploma Seminar	23

St. Pölten Campus

Nutzen Sie die Chance und studieren Sie am neuen Campus St. Pölten – einem innovativen Campus der Zukunft mit modernsten Lehr- und Lernräumen sowie zukunftsweisenden Arbeitsplätzen.

