




COMMUNICATION ENGINEERING


MASTER | WORK-FRIENDLY




 **Location:** Campus Klagenfurt
Primoschgasse 8-10, 9020 Klagenfurt

 **Duration:** 4 semesters

 **Schedule:**
Mon. - Fri., occasional Sat.
work-friendly schedule to prior agreement

 **Academic Degree:**
Master of Science in Engineering (MSc)

 **ECTS Credits:** 120

 **Language:** English

 **Study places per year:** 20



Connected to the digital future, modern communication technology has made an integral imprint on our everyday lives. Communication Technology determines the speed of innovation and research activities in a variety of business, economics and technical areas. It is connecting people every day everywhere. Understanding and developing communication technologies therefore offer the best opportunities for your professional career.

COURSE INFORMATION

The principle goal of this programme is to prepare our graduates for the dynamic and continuous changes of the digital world and thus be in the position to successfully participate in its future developments. This practice-oriented degree programme should provide our students with the ability to master the supposedly incomprehensible chaos of data transmission in technical networks and to plan and regulate modern communication systems. After graduation from this degree programme at Carinthia University of Applied Sciences – campus Klagenfurt, you will have acquired well-established qualifications to undertake the responsibility for activities in private companies or in research institutes. With this degree you can also study further in corresponding PhD programmes at universities.

JOBS AND CAREERS

A communication technology expert is expected to be familiar with all network standards and protocols. Therefore, graduates of the Master of Science degree program have a practical as well as theoretical understanding in all of the following areas:

- Cybersecurity
- 5G and beyond networks
- Network design & management
- Internet of Things
- Legal and ethical frameworks

Moreover, graduates can use their acquired professional and methodological competence to pursue a further scientific specialization in the form of a PhD at a technical university.

CURRICULUM

1 st Semester	SCH	ECTS
Academic Skills	3	5
Digital Signal Processing	3-5	5
Information & Probability Theory	3-5	5
Wireless Communication	3-5	5
Network & IT Management	3-5	5
Software Development	3-5	5
Total	20.5	30

2 nd Semester	SCH	ECTS
Network Reliability & Cybersecurity	3-5	5
Digital Communication	3-5	5
Mobile Computing	3-5	5
Mobile Networks	3-5	5
Network Planning	3-5	5
Selected Topics in Software Development	3	5
Total	20.5	30

3 rd Semester	SCH	ECTS
Cryptography & Authentication	3-5	5
Cloud & Edge Computing	3-5	5
Internet of Things	3-5	5
5G Networks	3-5	5
Introduction to Machine Learning	3-5	5
Master Project	0.33	5
Total	17.83	30

4 th Semester	SCH	ECTS
Data Privacy & Ethics	3	5
Master Thesis	0.5	20
Master Thesis Seminar	2	2
Master Exam	0	3
Total	5.5	30
Total Sum	64	120

SCH = Semester Credit Hour
ECTS = European Credit Transfer System



DATES

Start: October 2022

Study Info Lounge: always on the second Tuesday of the month from 2 p.m. to 6 p.m. - ONLINE

FH Days and information events:
all dates at www.fh-kaernten.at/fhday

COSTS

Tuition fee: € 363.36 per semester

Student Union Fee: around € 20, annual adjustment

CONTACT

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