5G AND BEYOND MASSIVE OPEN ONLINE COURSE TO THE WORLD

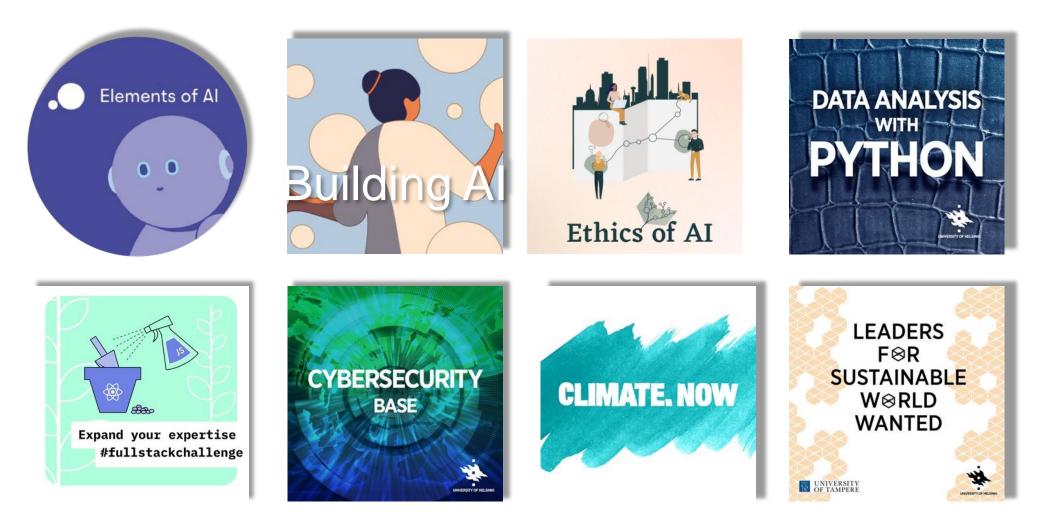
Dean Sasu TARKOMA University of Helsinki



Finland's 6G network of excellence.



GROWING PORTFOLIO AT MOOC.FI



Over one million registered students

WE NEED 6G EDUCATION AND SKILLS

Upskilling Europe and the world. Explaining 5G and beyond. Raising interest in technology. For creating a safer, more sustainable and connected planet.

Core 5G and Beyond

In this University of Helsinki open online course, you learn the fundamental concepts behind mobile networks, focusing in particular on 5G and the envisioned future 6G networks.

START COURSE

0



3

MINISTRY OF EDUCATION AND CULTURE FINLAND



6G.MQQC.F

FREE MOOC COURSE, OPEN TO ALL

Introduction to 5G and beyond including new applications

It is useful for anyone interested in understanding how mobile networks work, and how mobile technologies are expected to change our lives.

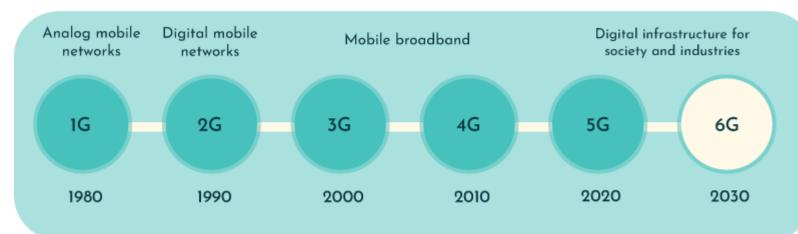
COURSE OVERVIEW

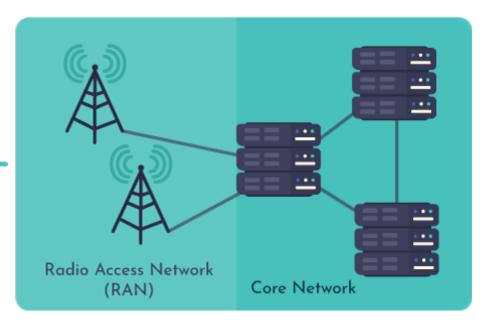
MOOC course, open to all

- Aims introduce 5G and 6G including new applications
- 2 ECTS credit point course, can be started at any time
- Four chapters with learning goals and in-chapter exercises

Text-based course

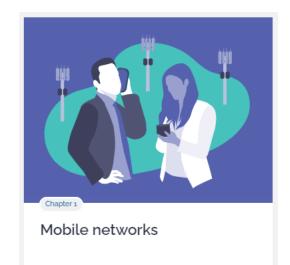
Highly accessible on any device Pointers to follow-up courses





Chapter 1: Mobile Networks.

We give an overview of the structure of mobile networks, their creation and standardization, and key services provided by mobile networks.





Chapter 2: 4G Networks. To fully understand 5G and beyond, we revisit the 4G architecture that exemplifies crucial design principles and patterns in mobile networks. Many of the mechanisms introduced in 4G can be found in 5G.

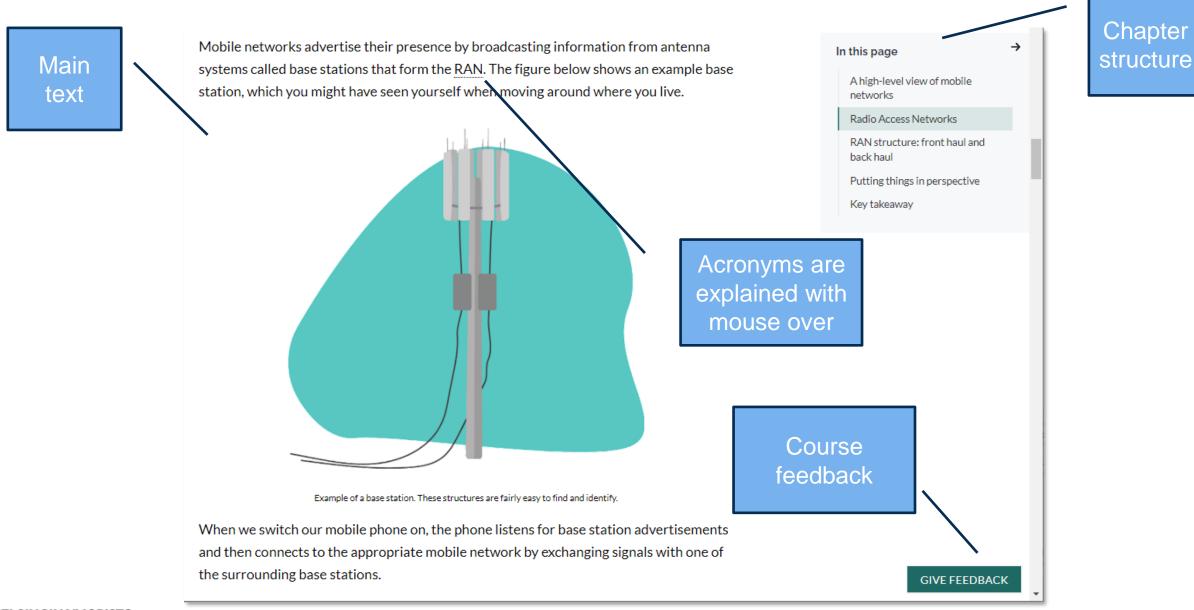
Chapter 3: 5G Networks. We present the key principles and design factors for 5G and illustrate how the 5G networks work.



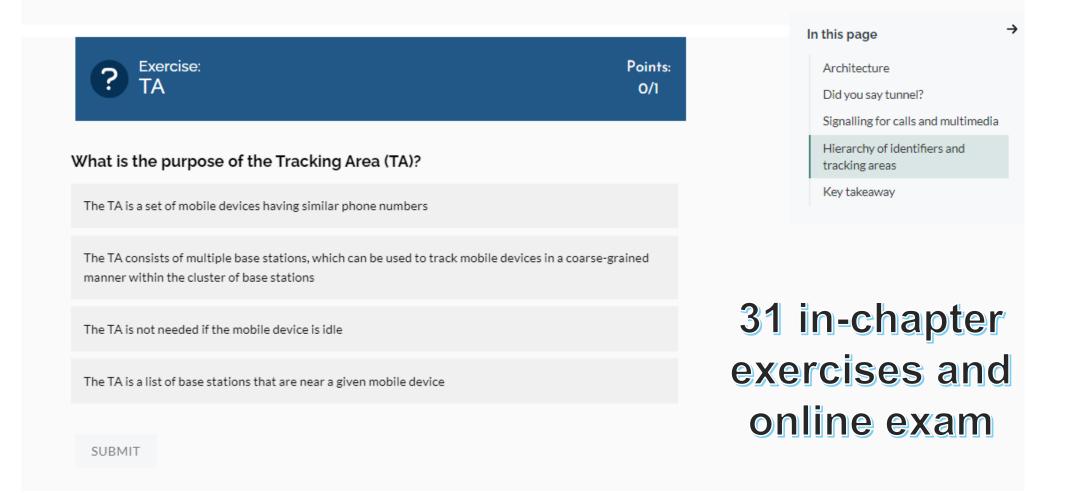


Towards 6G Networks

Chapter 4: Towards 6G Networks. After investigating 4G and 5G networks in detail, we set to discuss the design and standardization of the next mobile network architecture: 6G. This chapter concludes the course.



EXERCISES WITHIN CHAPTERS



EXAMPLE 6G SKILLS MOOC COURSES

Core 5G and beyond 2 ECTS

Cyber security base 2-10 ECTS

Full stack mooc 5 ECTS

Devops with docker 1 ECTS

Introduction to sustainability **3 ECTS**





University of Helsinki together with 6G Finland invites everyone to learn about 5G and 6G.

6G.MOOC.FI



MINISTRY OF EDUCATION AND CULTURE

