

**Course Title: Understanding Healthcare****Coordinating Unit:** Faculty of Digital Engineering – Digital Health and Personalized Medicine**Semester:** 1 (2018/2019) **Credits:** 6**Lecturers:** Böttinger, zu Putlitz, et al.**Description:**

Knowledge of principal elements of healthcare and public health systems, and global health initiatives, including their stakeholders, institutions, regulations, and functional interplay is a prerequisite for students at the outset of successful studies in digital health. The course 'Understanding Healthcare' is designed to equip students from IT/informatics backgrounds with a solid working knowledge of fundamentals and emerging trends in healthcare, public health, and global health. In the first teaching block, students will focus on the composition and interplay of stakeholders in modern healthcare systems, including international healthcare comparisons and an in-depth view of the roles of various health industries. In the second teaching block, students will then be introduced to roles, actors, policies and examples in public health, global health, and various specialty health domains, including pharmacies, telemedicine, and rehabilitation medicine. In this course students with non-medical backgrounds will learn to comprehend, assess and apply information about stakeholders and their interplay in healthcare, public health, global health, and specialized health domains, in making and communicating decisions in the digital health context.

**Learning Objectives:**

- Understand different healthcare systems in international context
- Ability to critically assess impact of actors, policies, organisations, and their interplay in engineering and implementing digital solutions
- Critically assess impact of healthcare industries in digital health context
- Understand roles, actors, policies, and organisations in public health systems
- Understand the global health framework
- Learn about organisations, regulations, and challenges and opportunities for digital health solutions in global health framework issues
- Understand challenges and opportunities for telemedicine

**Applicable Module: Bridge Module 'Fundamentals of Healthcare Systems'**