



University of Twente
Enschede - The Netherlands

Master of Science Programme

Health Care Technology and Management

The Health Care Technology and Management (HCTM) track highlights the issues that play a role in the management of health care organizations.

The special emphasis of this track is on the organizational aspects of hospitals from an Industrial Engineering and Management point of view. Furthermore, we focus on the management and organizational aspects of the development and implementation of biomedical technology. Some of the courses will be given along with the Master's degree programme Biomedical Engineering.

You will be prepared to increase the organizational effectiveness, efficiency and safety of health care. In addition to knowledge of medical aspects, this demands effective managerial insight as well. The HCTM track of the 'Industrial Engineering and Management' Master's degree programme differs from other educational programmes in that, in preparing you for a career in the health care sector, it highlights the quantitative analysis of problems and the methods used in producing goods or services.

Programme structure

HCTM is one of the four tracks within the Master's degree programme Industrial Engineering and Management. The programme consists of 120 European Credits (EC). Along with students from the other tracks you will follow a number of joint courses (30 EC): *Simulation, Empirical Research and Data Analysis, Management and Organization of Technological Innovation, Management of Technology, Organization and Strategy.*

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THE MASTER DEGREES
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In addition to these joint courses you will follow track-specific courses (60 EC) like:

- Discrete optimization of business processes (1)
- Health and Health systems
- Organization theory and operations management
- Discrete optimization of business processes (2)
- Quality and safety in health care
- International health strategy and hospital of the future
- Clinical safety and quality assurance
- Financial accounting
- The nature of hospital work and health care workers
- E- health strategies
- Management of Technology in Health care (project)
- Optimization of health care processes 2
- Care technology
- Masterthesis (30 EC).

Career prospects

The HCTM track offers you a solid foundation for a management position in large health care organizations. Most graduates will begin their career in positions in which they are expected to optimize health care processes or manage the development and implementation of new technologies in the organization. Some students may choose to focus on process design and organization, as part of which they will use and develop performance measurement systems. This information is used to improve the organizational processes of a hospital, for example. Other graduates will manage the development and implementation of new medical technologies or ICT solutions in health care organizations. Examples of key process tasks include estimating the need for a certain technology in the organization and the impact of the technology on patients, doctors and other individuals involved.

Additional information

The IE&M Master's degree programme is a dynamic programme. Regularly consult our website www.graduate.utwente.nl for the latest developments.

The website also presents information on such aspects as: tracks, courses, admission requirements and registration.

If you have further questions regarding this track or the IE&M Master's degree programme, please contact the IE&M programme information desk by e-mail at master@utwente.nl or by phone on +31 (0)53 489 5489.



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