

Joint Master's program Biomedical Engineering

X4M 2230 Health Technology Assessment	Lecture, 2 SWS
Workload:	see related module
Credit-points:	2
Lecturer:	Dagmar Lühmann
Language:	English
Curriculum:	Master's program Biomedical Engineering, 2nd Semester
Prerequisites according to examination regulations	None
Recommended prerequisites:	None
Learning outcomes:	<p>The students know about the role of Health Technology Assessment HTA during decision-making-processes in the healthcare-system</p> <p>The students know structure, methods and typical contents of Health Technology Assessments.</p> <p>The students are able to judge about the scientific value of HTA-reports.</p> <p>The students are enabled to design a record for a HTA</p>
Content:	<p>Introduction to Technology Assessment, History, International Developments and Collaborations, relation to industry and politics</p> <p>Basics of Epidemiology; prototypic description of diseases: severity, course, outcomes; determination of the "burden of illness"; examples</p> <p>Description of technologies: technical characteristics and functioning; requirements for its use; "Life cycle" of technologies (e.g. diffusion, patterns of use, regulatory status)</p> <p>Assessing safety, efficacy, effectiveness of diagnostic technologies – with a special focus on medical devices</p> <p>Assessing safety, efficacy, effectiveness of therapeutic and / or preventive interventions - with a special focus on medical devices</p> <p>Basics of Health economics; Social and ethical implications of technology use</p> <p>Drawing conclusions, Information resources</p>
Literature:	<p>Goodman CS. HTA 101: Introduction to Health Technology Assessment. Bethesda, MD: National Library of Medicine (US); 2014.</p> <p>https://www.nlm.nih.gov/nichsr/hta101/HTA_101_FINAL_7-23-14.pdf</p>

Examination:	Written examination
Teaching methods:	LCD-projector, guidelines, standards, board, databases