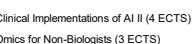


Time	Monday	Tuesday	Wednesday	Thursday	Friday
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<b>18:00 h</b>					

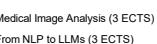
#### Module Medicine (mandatory)

 Clinical Implementations of AI II (4 ECTS)  
 Omics for Non-Biologists (3 ECTS)

#### Module AI (mandatory)

 Reinforcement Learning (5 ECTS)

#### Module Applications (mandatory)

 Medical Image Analysis (3 ECTS)  
 From NLP to LLMs (3 ECTS)

#### Module Foundation

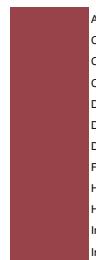
The selection of courses in the module *Foundation* depends on the students' individual scientific background. The following list is a pool of suggested courses. Students may consider courses not found on the list.

 Applied Optimisation (5 ECTS)  
Computer Graphics (5 ECTS)  
HPC and Cloud Computing (1 ECTS)  
Internet of Things (5 ECTS)  
**Linear Models and Regression I (9 ECTS)**

 Medical Informatics (3 ECTS)  
Seminar Data Science (5 ECTS)  
Seminar in Cryptography and Data Security (5 ECTS)  
Seminar Machine Learning and Artificial Intelligence (5 ECTS)

#### Module Electives

The selection of courses from the module *Electives* depends on the students' interests. The following list is a pool of suggested courses. Students may consider courses not found on the list.

 Advanced Medical Statistics (3 ECTS)  
Cardiovascular Technology (3 ECTS)  
Computational Epidemiology (1.5 ECTS)  
Computer Graphics & Geometry Processing (5 ECTS)  
Data Driven Diabetes Management (3 ECTS)  
Design of Clinical Trials (3 ECTS)  
Digital Sustainability (1 ECTS)  
Foundations of Deep Learning (6 ECTS)  
Health Insurance (3 ECTS)  
Health Law (5 ECTS)  
Innovation Management (2 ECTS)  
Intelligent Implants and Surgical Instruments (3 ECTS)

 Medical Image Analysis Lab (4 ECTS)  
Modeling and Scaling of Generative AI Systems (5 ECTS)  
Molecular Biology and Genetics for Non-Biologists (3 ECTS)  
Neurotechnology (3 ECTS)  
Ophthalmic Technologies (3 ECTS)  
Principles of Medical Imaging (3 ECTS)  
Programming of Microcontrollers (5 ECTS)  
Seminar Generative AI (5 ECTS)  
Seminar Life Engineering (5 ECTS)  
Seminar Trustworthy AI models and systems (5 ECTS)  
Seminar Handling Health Data (Generative) AI in Healthcare (5 ECTS)