

	Clinical Implementations of AI I (3 ECTS)
	Clinical Decision Support (3 ECTS)

Deep Learning (5 ECTS)

AI for Medical Time Series Data (3 ECTS)
Trustworthy AI in Medicine (3 ECTS)

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.

3D Geometry Processing (5 ECTS)	Introduction to Data Science with Python with Practicals (5 ECTS)
Algorithms, Probability and Information (5 ECTS)	Introduction to Medical Statistics (3 ECTS)
Applied Biostatistics II with practicals (4 ECTS)	Seminar Applied Optimisation (5 ECTS)
Ethical and Legal Issues (3 ECTS) - can also be elective	Seminar Cryptography and Data Security (5 ECTS)
Graph-Based Pattern Recognition (5 ECTS)	Seminar Machine Learning and Artificial Intelligence (5 ECTS)

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.

Biomedical Sensors (3 ECTS)	Medical Robotics (3 ECTS)
Biomedical Signal Processing and Analysis (3 ECTS)	Privacy and Data Security (5 ECTS)
C++ Programming (3 ECTS)	Proteomics & Metabolomics (lecture and practicals) (5 ECTS) - Various dates so not in timetable
Clinical Epidemiology and Health Technology Assessment (2 ECTS)	Regenerative Dentistry for Biomedical Engineering (2 ECTS)
Computer-Assisted Surgery (3 ECTS)	Rehabilitation Technology (3 ECTS)
Databases (5 ECTS)	Seminar Advanced Topics in Reinforcement Learning and Decision Making (5 ECTS) - see JMCS website
Finite Element Analysis I (3 ECTS)	Seminar Cognitive Computational Neuroscience (5 ECTS)
Fundamentals of Quality Management and Regulatory Affairs (4 ECTS)	Seminar Explainable AI (5 ECTS) - see JMCS website
Introduction to Image Analysis (5 ECTS)	Seminar Life Engineering (5 ECTS) - see JMCS website
Introduction to Precision Medicine (3 ECTS)	