

Time	Monday	Tuesday	Wednesday			Thursday		Friday
8:00 h								
8:15 h	08.15 - 10.00 Intro Medical Statistic		08.15 - 10.00 Finite Element Analysis I		08.15 - 10.00 Computer-Assisted Surgery			
8:30 h		Room 206, Main Building Module Electives		09.15 - 12.00 Graph Based Pattern Recognition	Room B101, VonRoll Module Electives			
8:45 h				10.15 - 12.00 Biomedical sensors	10.15 - 12.00 Medical Robotics	10.15 - 12.00 Seminar Cryptography and Data Security		
9:00 h				Engehalde 2 002 Module Foundation	Room A 027, UniS Module Electives	Room B101, VonRoll Module Electives	10.15 - 13.00 Fundamentals of Quality Management And Regulatory Affairs	
9:15 h							Room 101, Main Building Module Foundation	
9:30 h	Room 205, Main Building Module Foundation			12.15-14.00 Trustworthy AI in medicine			Engehalde 2 002 Module Foundation	
9:45 h	Module Foundation			13.15 - 16.00 C++ Programming	13.15 - 15.00 Introduction to Image Analysis	13.15 - 14.45 Seminar Cognitive Computational Neuroscience		
10:00 h				14.15 - 16.00 Applied Biostatistics II with practicals	14.15-16.00 AI for Medical Time Series Data	S481, DCBP (Chemist) Module Electives	14.15 - 17.00 Privacy and Data Security	
10:15 h	10.15 - 12.00 Clinical Decision	10.15 - 12.00 Clinical Epidemiology Seminar ML and Health Technology Assessment	10.15 - 12.00 Applied Biostatistics II with practicals	Room 115, Main Building Module Electives	Room 115, Main Building Module Electives	Room 03.101, Sitem Module Electives	14.15 - 16.00 Seminar Applied Optimisation	
10:30 h	Clinical Decision	Clinical Epidemiology Seminar ML and Health Technology Assessment		16.15 - 18.00 Regenerative Dentistry for BME	16.15 - 18.00 Databases	15.15 - 17.00 Rehabilitation Technology	14.15 - 17.00 Introduction to Data Science with Python with Practicals	
10:45 h	Support	Artificial Intelligence Assessment		Location TBC Module Electives	Room A006, ExWi Module Electives	16.15 - 18.00 Biomedical Signal Processing and Analysis	Room 115, Main Building Module Electives	
11:00 h					Room A097, ExWi Module Electives	15.15 - 17.00 Introduction to Precision Medicine	Room 105, Main Building Module Electives	
11:15 h						Room 101, Main Building Module Electives		
11:30 h	Room 215, Main Building Module Electives	Room 115, Main Building Module Foundation						
11:45 h	Module Application	Module Foundation						
12:00 h								
12:15 h	12.15-14.00							
12:30 h	Ethical and Legal Issues							
12:45 h	Module Foundation							
13:00 h								
13:15 h								
13:30 h	Room 214, Main Building							
13:45 h	Module Foundation							
14:00 h								
14:15 h	14.15 - 17.00 Deep Learning							
14:30 h	Deep Learning							
14:45 h								
15:00 h								
15:15 h								
15:30 h								
15:45 h								
16:00 h								
16:15 h								
16:30 h	Engehalde 1 001							
16:45 h	Module AI							
17:00 h								
17:15 h								
17:30 h								
17:45 h								
18:00 h								

Module Medicine (mandatory)

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

Module AI (mandatory)

Deep Learning (5 ECTS)

Module Applications (mandatory)

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

3D Geometry Processing (5 ECTS)
Algorithms, Probability and Information (5 ECTS)
Applied Biostatistics II with practicals (4 ECTS)
Ethical and Legal Issues (3 ECTS) - can also be elective
Graph-Based Pattern Recognition (5 ECTS)

Introduction to Data Science with Python with Practicals (5 ECTS)
Introduction to Medical Statistics (3 ECTS)
Seminar Applied Optimisation (5 ECTS)
Seminar 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.

Biomedical Sensors (3 ECTS)
Biomedical Signal Processing and Analysis (3 ECTS)
C++ Programming (3 ECTS)
Clinical Epidemiology and Health Technology Assessment (2 ECTS)
Computer-Assisted Surgery (3 ECTS)
Databases (5 ECTS)
Finite Element Analysis I (3 ECTS)
Fundamentals of Quality Management and Regulatory Affairs (4 ECTS)
Introduction to Image Analysis (5 ECTS)
Introduction to Precision Medicine (3 ECTS)

Medical Robotics (3 ECTS)
Privacy and Data Security (5 ECTS)
Proteomics & Metabolomics (lecture and practicals) (5 ECTS) - Various dates so not in timetable
Regenerative Dentistry for Biomedical Engineering (2 ECTS)
Rehabilitation Technology (3 ECTS)
Seminar Advanced Topics in Reinforcement Learning and Decision Making (5 ECTS) - see JMCS website
Seminar Cognitive Computational Neuroscience (5 ECTS)
Seminar Explainable AI (5 ECTS) - see JMCS website
Seminar Life Engineering (5 ECTS) - see JMCS website