

	Monday	Tuesday	Wednesday	Thursday	Friday
Time					
8:00 h					
8:15 h	08.15 - 10.00	08.15 - 12.00	08.15 - 10.00		
8:30 h	Advanced Medical Statistics	Modeling and Scaling of Generative AI Systems	Ophthalmic Technologies		
8:45 h			08.45 - 11.45		
9:00 h			Programming of Microcontrollers		
9:15 h	Seminarraum B 008		Seminarraum S101	09.15 - 12.00	09.15 - 10.00
9:30 h	VonRoll	Seminarraum 105	UniS	Applied Optimisation	Foundations of Deep Learning
9:45 h	Module Electives	Hauptgebäude H4	Module Electives		
10:00 h		Module Electives			
10:15 h	10.15 - 12.00	10.15 - 12.00	10.15-12.00		
10:30 h	Seminar ML and Artificial Intelligence	Internet of Things	Medical Image Analysis	10.15 - 12.00	
10:45 h			Seminar Cryptography and Data Security	Seminar Cryptography and Data Security	
11:00 h			Intelligent Implants & Surgical Instruments	Intelligent Implants & Surgical Instruments	
11:15 h					
11:30 h	Seminarraum 111, E8	Hörraum 106	TBD	Seminarraum 107, E8	Seminarraum 111
11:45 h	Module Foundation	Hauptgebäude H4	Module Application	Module Foundation	Engehalde E8
12:00 h		Module Electives		Module Foundation	Module Foundation
12:15 h					
12:30 h					
12:45 h	Hörsaal 2 002	12.15-14.00	12.15 - 14.00	12.15-14.00	12.15 - 14.00
13:00 h	Engehalde E8	From NLP to LLMs	Health Law	Reinforcement Learning	Principles of Medical Imaging
13:15 h	Module Foundation	Module Electives			
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18:00 h					

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) - *not weekly see KSL*
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) - *not weekly see KSL*
Computer Graphics & Geometry Processing (5 ECTS)
Data Driven Diabetes Management (3 ECTS)
Design of Clinical Trials (3 ECTS)
Digital Sustainability (1 ECTS) - *not weekly see KSL*
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) - *not every week see KSL*
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)