MSc Artificial Intelligence in Medicine, University of Bern - Timetable Autumn Semester 2025 - First Semester Courses

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8/00 h					
8/15 h			08.15-10.00 **Introduction to Digital Signal Processing**		
8/30 h					
8/45 h					
9/00 h					
9/15 h					
9/30 h			TBD		
9/45 h			**Module Applications**		
10/00 h					
10/15 h		10.15-12.00 **Introduction to Artificial Intelligence**	10.15-12.00 **Basics in Physiology**		
10/30 h					
10/45 h					
11/00 h					
11/15 h					
11/30 h		Auditorium 102, VonRoll	TBD		
11/45 h		**Module AI**	**Module Medicine**		
12/00 h					
12/15 h					
12/30 h					
12/45 h					
13/00 h					
13/15 h			13.15 - 16.00 **Machine Learning**		
13/30 h					
13/45 h					
14/00 h					
14/15 h	14.15 - 17.00 **Computer Vision**				
14/30 h					
14/45 h					
15/00 h					
15/15 h					
15/30 h			Auditorium B006, Exact Sciences, ExWi		
15/45 h			**Module AI**		
16/00 h					
16.15 h			16.15-18.00 **Introduction to Clinics**		
16:30 h	Auditorium 2 002, Engehalde, E8				
16.45 h	**Module Applications**				
17.00 h					
17.15 h					
17.30 h			TBD		
17.45 h			**Module Medicine**		
18.00 h					

Module Medicine (mandatory) - 7 ECTS

- Basics in Physiology (3 ECTS)
- Introduction to Clinics (4 ECTS)

Module AI (mandatory) - 10 ECTS

- Introduction to Artificial Intelligence (5 ECTS)
- Machine Learning (5 ECTS)

Module Applications (mandatory) - 8 ECTS

- Computer Vision (5 ECTS)
- Introduction to Digital Signal Processing (3 ECTS)

Module Foundation - 5 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.

- Applied Biostatistics with Practicals I (4 ECTS)
- Applied Optimisation (5 ECTS)
- Discrete Mathematics (5 ECTS)
- HPC and Cloud Computing (1 ECTS)
- Internet of Things (5 ECTS)
- Introduction to Programming (2 ECTS)

- Introduction to Python (2 ECTS)
- Linear Models and Regression I (9 ECTS)
- Numerical Methods (5 ECTS)
- Selected Chapters in Mathematics (2 ECTS)
- Seminar Data Science (5 ECTS)