M.Sc. AI in Biomedicine

Focus Subject Advanced Machine Learning

Semester	Modules						Credits/ number of exams
1. (WiSe)	**Foundations of AI in Biomedicine** **CIT423005** (mandatory) Projectwork TUM 8 credits	**AI, BM & Society** **SOT53506** (mandatory) Sci. report TUM 3 credits	**Multimodal AI in Medicine** **CIT423009** (mandatory) Exam TUM/FAU 5 credits	**Trustworthy AI for Medicine** **CIT423007** (mandatory) Exam TUM 5 credits	**Computer-Assisted Interv. & Therapy** **CIT423008** (elective) Projectwork TUM 5 credits	**Research Skills and Methods** **CIT422000** (mandatory) Presentation TUM 4 credits	30/6
2. (SoSe)	**Advanced AI in Biomedicine** **CIT423006** (mandatory) Projectwork TUM 8 credits	**Ethics of AI** **SOT53507** (mandatory) Exam TUM/FAU 3 credits	**Human-centered AI** **CIT422001** (mandatory) Projectwork TUM/FAU 5 credits	**Computer-Assisted Diagnosis** **MH4L74212** (elective) Projectwork TUM/FAU 5 credits	**Computational Biology & Pathology** **MH4L74211** (elective) Oral Exam TUM 5 credits	**Medical Device & AI Regulation** **CIT422002** (elective) Presentation TUM/FAU 4 credits	30/6
3. (WiSe) **Mobility window**	**Clinical applications project in Cardiology/Neurology/Oncology** **CIT000001** (mandatory) Projectwork TUM/FAU/international or academic partners 15 credits		**Advanced Deep Learning** (elective) Exercises FAU 5 credits	**Machine Learning and Optimization** **EI70360** (elective) Exam TUM 5 credits	**Master Seminar** **IN2107** (elective) Sci. report TUM/FAU 5 credits		30/4
4. (SoSe)	**Master‘s Thesis** **CIT000002** (mandatory) TUM/FAU/international or academic partners 30 credits						30/1

Key:	Foundations of AI	Applications of AI	Cross-cutting themes	Focus subject	Masters thesis