Course of Study Computer Science in Engineering (Study Cohort w22)

Sample course plan M Master Computer Science in Engineering (IIWMS) Dual study program
Specialisation I. Computer Science, Specialisation II. Engineering Science, Specialisation III. Mathematics, Specialisation IV. Subject Specific Focus

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP

Semester column 1

Practical module 1 (dual study program, Master's degree)

Practical term 1		0

Software Verification

Software Verification	VL	2
Software Verification	GÜ	2

Security of Cyber-Physical Systems

Security of Cyber-Physical Systems	VL	2
Security of Cyber-Physical Systems	GÜ	2

Digital Communications

Digital Communications	VL	2
Digital Communications	HÜ	2
Laboratory Digital Communications	PR	1

Mathematical Image Processing

Mathematical Image Processing	VL	3
Mathematical Image Processing	GÜ	1

Semester column 2

Practical module 2 (dual study program, Master's degree)

Practical term 2		0

Intelligent Systems Lab

Intelligent Systems Lab	PBL	6

Numerical Mathematics II

Numerical Mathematics II	VL	2
Numerical Mathematics II	GÜ	2

Semester column 3

Research Project

Research Project IIW	PK	8

Practical module 3 (dual study program, Master's degree)

Practical term 3		0

Medical Imaging

Medical Imaging	VL	2
Medical Imaging	GÜ	2

Semester column 4

Master thesis (dual study program)

Business & Management (from catalogue) - 6LP

Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP

Technical Complementary Course II for Computational Science and Engineering - 12LP

Technical Complementary Course I for Computational Science and Engineering - 12LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.