

Course Description – Winter Semester 2025/2026

Title	Image Processing I and Compression Standards (Code: ImProc1)
Faculty	Computer Science
Professor	Prof. Dr. Klaus Chantelau
ECTS	5
Level	Bachelor, Master
Requirements	The course is open for Bachelor or diploma students with basic knowledge in linear algebra and analysis and solid programming skills in Java.
Add. Information	-
Content	Students learn the foundations of the compression of audio-visual signals and the structure of audio-visual digital standards (G7xx, mp3, GIF/PNG, JPEG, H26x, MPEG1 / 2 / 4) and apply the most important mathematical and algorithmic methods for the development and implementation of compression software modules.