Courses in English
Course Description

Department: 06 Applied Sciences and Mechatronics
Course title: Thin Film Optics
Hours per week (SWS): 5
Number of ECTS credits: 6
Course objective: Knowledge on Thin Film Optics, ability to select the appropriate optical thin film technology of a specific application, ability to develop application-related optical thin films
Prerequisites: Basics in Optics, Physics, Mathematics
Recommended reading:
Teaching methods: Lecture
Assessment methods: written exam
Language of instruction: English
Name of lecturer: Minghong Yang
Email: minghong.yang@whut.edu.cn
Link:
Course content: This course is aimed for master students with major of photonics micro-nano technology and mechatronics/precision engineering or engineering physics. This course teaches thin film optics from fundamental theory to practical manufacturing. The course will provide an overview of thin film materials, the properties of optical thin films, optical thin film and multilayer design, manufacture of optical thin films and coatings. Applications of optical thin films and coatings will also be reviewed across a variety of areas, including optical thin films and coatings for fiber-optic sensing technologies.
Remarks: 