Courses in English

Course Description

Department: 05 Building Services Engineering, Paper and Packaging Technology and Print and Media Technology

Course title: Digital Photography and Experimental Image Capture

Hours per week (SWS): 4

Number of ECTS credits: 6

Course objective: Problem solving strategies for the Graphic Communication Industry that use photography and photographic techniques to produce high quality graphic arts products

Prerequisites: Basic knowledge on print and media technologies

Recommended reading: No textbook is required. Printed an downloadable course handouts will be provided.

Teaching methods: Lectures, workshops, presentations, group field trips

Assessment methods: Term paper, individual and group assignments will be assigned. Research paper is to be written at the end of the course

Language of instruction: English

Name of lecturer: Prof. Brian Lawler

Email: N.N. (Please contact: Ulrich.Moosheimer@hm.edu) or Brian Lawler brian.lawler@hm.edu

Link: www.pm.hm.edu

Course content: Selected topics from: Basic camera technology: film cameras, lenses, basic optics, Digital camera technology, Lenses for modern digital cameras – why we use different lenses for commercial and graphic arts photography, Specialty cameras: process cameras, copy photography, view camera photography, tilt-lens photography, controlling perspective with lens and film plane movement, Time-based photography: slit-scan and panoramic photography, Experimental photography for scientific and artistic uses, Ultra-high resolution panoramic photography, Stepped and repositioned panoramic photography, Color management of photos – from the camera to the printed page, Printing technologies for photography – chemical, digital and using traditional printing processes, Resolution and reproduction relationships – the mathematics of photography in the digital world.

Remarks