

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 and 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	