



Course on Optotechnology and Image Processing at Darmstadt University of Applied Sciences

Short description

Darmstadt University of Applied Sciences has conducted the course of studies "Optotechnology and Image Processing" at the Mathematics and Sciences Department since 1997. The course is designed for 40 student places. Twelve professors with relevant professional experience contribute to the teaching and research opportunities.

Optotechnology is understood here to comprise classic technical optics, optical metrology and laser technology. In the field of image processing, we concentrate on industrial applications and quantitative image evaluation. The course is characterized by integrated teaching in these fields of knowledge, one term devoted to professional experience in industry, and a high proportion of laboratory work and projects.

Core competences:

- interferometry, speckle interferometry
- 3-D metrology
- colour and spectral metrology
- industrial image processing
- quantitative image evaluation and stereometry
- optical calculations (optical design)
- laser development and application
- optical metrology

Education and further training:

- diploma studies "Optotechnology and Image Processing"
- further training courses and workshops on image processing

R&D:

- cooperation primarily with small and medium-sized companies in the form of projects funded by third parties or contract R&D at the predevelopment stage
- diploma dissertations and practical terms in industry

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