Module title: Technology of Sensor and Actor Materials including Smart Fluids
Abbreviation: 08-SAM-122-m01

Module coordinator: holder of the Chair of Chemical Technology of Material Synthesis
Module offered by: Chair of Chemical Technology of Material Synthesis

ECTS: 5
Method of grading: numerical grade
Only after succ. compl. of module(s): --
Duration: 1 semester
Module level: graduate
Other prerequisites: Admission prerequisite to assessment: successful completion of lab course.

Contents:
Fabrication, effects and applications of sensory and actuator materials such as piezoelectrics, shape memory materials and magnetostrictive materials. Electrorheological and magnetorheological fluids, magnetofluids.

Intended learning outcomes:
Students have developed fundamental knowledge in the area of sensory and actuator materials.

Courses:
V + P (no information on SWS (weekly contact hours) and course language available)

Method of assessment:
a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)

Allocation of places:
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Additional information:
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Referred to in LPO I (examination regulations for teaching-degree programmes):
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Module appears in:
Master's degree (1 major) Functional Materials (2012)