Module title	Abbreviation
Foundations of Psychological Ergonomics	06-HCI-B-GLPE-242-m01

Module coordinator	Module offered by
holder of the Chair of Psychological Ergonomics	Institute of Human Computer Media

ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	--

Contents

The module conveys content from general psychology, cognitive and physical ergonomics for students of human-computer interaction. The content focuses on the cognitive abilities of humans from general psychology (perception and visual and auditory information processing, cognitive information processing, memory, attention, decision-making), cognitive ergonomics (design of displays and controls, automation, mental workload) and physical ergonomics (anthropometry, biomechanics). The basics are illustrated and deepened by carrying out demonstrations and small experiments and using practical examples from human-machine interaction. In addition, general design principles for human-machine interaction are derived from the findings of general psychology and cognitive and physical ergonomics.

Intended learning outcomes

After participating in the module courses, students have acquired basic specialist skills. They will be able to reproduce specific findings from general psychology and cognitive and physical ergonomics. They can apply this knowledge in relation to human-machine interaction and review and evaluate existing technical systems.

Courses (type, number of weekly contact hours, language — if other than German)

V (2) + Ü (1)
Module taught in: German and/or English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 90 minutes)
Language of assessment: German and/or English
creditable for bonus

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: only in winter semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor's degree (1 major) Human-Computer-Interaction (2024)