Module title

Hands-on Computer Science

Abbreviation

10-I-DPP-152-m01

Module coordinator

Dean of Studies Informatik (Computer Science)

Module offered by

Institute of Computer Science

ECTS

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Method of grading

Only after succ. compl. of module(s)

(not) successfully completed

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Duration

2 semester

Module level

undergraduate

Other prerequisites

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Contents

Design and implementation of a school project on a topic in computer science, e. g. for project days, school term papers (Facharbeiten), Pluskurse (additional courses for the in-depth study of areas of special interest), workshops. In the theoretical phase, the students formulate the subject-specific and didactic requirements of the topic, search for a suitable topic, elaborate this topic for the project and draw up a project plan. This is done in groups with students providing each other with advice as well as challenging and reflecting on each other’s work. In the practical phase, the students prepare the implementation of the project, implement the project with pupils and afterwards reflect the planning and implementation.

Intended learning outcomes

The students are able to select a topic from the area of computer science that is suitable for a school project and are able to elaborate it. They are familiar with different aspects of project planning and management and are able to critically reflect the process.

Courses

(2) + S (2)

Usually every 2 years

Method of assessment

practical assignment (preparing and delivering a school lab session) with examination talk (approx. 15 minutes)

Assessment offered: Only in the semester in which the course is offered

Allocation of places

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Additional information

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

§ 22 II Nr. 2 f)

§ 22 II Nr. 3 f)

Module appears in

First state examination for the teaching degree Realschule Computer Science (2015)

First state examination for the teaching degree Gymnasium Computer Science (2015)