Technology Arts Sciences TH Köln

Course ESY - Embedded Systems in Media Technology

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General information

Long name	Embedded Systems in Media Technology
Approving CModule	ESY MaMT
Responsible	Prof. DrIng. Dirk Poggemann Professor Fakultät IME
Level	Master
Semester in the year	winter semester
Duration	Semester
Hours in self-study	78
ECTS	5
Professors	Prof. Dr.–Ing. Dirk Poggemann Professor Fakultät IME
Requirements	none
Language	German, English if necessary
Separate final exam	Yes

Final exam

Details

Students implement media technology algorithms in an Embedded System and document their results. The Implementation should be developed and tested as introduced in the lecture and the lab exercises.

Minimum standard

Working Algorithm

Students implement media technology algorithms in an Embedded System and document their results. The Implementation should be developed and tested as introduced in the lecture and the lab exercises.

<u>Lecture</u>

Learning goals

Knowledge

- Microprocessors
- FPGAs
- Hardware Description Languages
- Designprocess
- Test and Debug
- Control of CCD- and CMOS-Image-Sensors
- Image Processing Algorithms

Expenditure classroom teaching

Туре	Attendance (h/Wk.)
Lecture	2
Tutorial (voluntary)	0

Separate exam

none

• Practical training

Learning goals

Skills

exercises with FPGA-Board and CMOS-Image-Sensor

Practical training	2
Tutorial (voluntary)	0

Separate exam

Exam Type

working on practical scenarion (e.g. in a lab)

Details

Reports about lab exercises

Minimum standard

Reports for all lab excercises must be delivered in correct form with correct results

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