Technology Arts Sciences
TH Köln

Course
SMC - Product Development for Smart City

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⌃ General information

Long name	Product Development for Smart City
Approving CModule	SMC_BaET
Responsible	Prof. Dr. Christof Humpert Professor Fakultät IME
Organisation and materials	ILU course for the Smart City course
Level	Bachelor
Semester in the year	winter semester
Duration	Semester
Hours in self-study	60
ECTS	5
Professors	Dr. Maike Bröker Lehrbeauftragte
Requirements	undefined
Language	German, English if necessary
Separate final exam	Yes

Final exam

Details

Oral presentation on the project and oral examination on the following topics:

- Classification of own project work in the overall context of the Smart City

- Key objectives and possible solutions of a Smart City

- Meaningfulness of individual measures of a Smart City

Minimum standard

Presentation in a defined form and duration

50 % of the questions answered correctly

Exam Type

Oral presentation on the project and oral examination on the following topics:

- Classification of own project work in the overall context of the Smart City

- Key objectives and possible solutions of a Smart City

- Meaningfulness of individual measures of a Smart City

∧ Lecture / Exercises

Learning goals

Knowledge

- Definition and typical measures of a smart city

- Problems of urban development

- Large urban projects worldwide and system view

- Social impacts and challenges

- Mobility of the future and energy supply in urban areas

- Basics for scientific research

- Requirements for preparing a report and presentation

Skills

analyze and critically evaluate smart city measures

conduct scientific searches

prepare scientific presentations

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	1

Separate exam

^ Project

Learning goals

Skills

Creating own product developments for smart cities, communicating product messages,

Creating business models for smart city products

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Project	0

Separate exam

Exam Type

working on projects assignment with your team e.g. in a lab)

Details

Evaluation of the layout and formal aspects of the project report

Evaluation of the content aspects

Evaluation of the scientific approach

Minimum standard

Submission of a report in the defined format and length

80 % sufficient references available

70 % correct content and logical structure