inf661 - Digital Transformation

Module label: Digital Transformation
Module code: inf661
Credit points: 6.0 KP
Workload: 180 h

Used in course of study:
- Master's Programme Business Informatics > Akzentsetzungsmodul Bereich Wirtschaftsinformatik
- Master's Programme Computing Science > Angewandte Informatik

Contact person:
Module responsibility:
- Jorge Marx Gomez
- Die im Modul Lehrenden

Authorized examiners:
- Jorge Marx Gomez
- Die im Modul Lehrenden

Entry requirements:
Skills to be acquired in this module:
After successful completion of the lecture, the students should be able to define enabler and actors of a digital transformation within the context of a model company. Furthermore, key competences such as Cloud Computing or IoT are used to make potential exploitation by new digital business models visible. The results will be evaluated.

The lecture explains basic properties of a digital transformation for companies and shows specific development potential. By forming and building a model company, students are able to create a realistic and practical scenario. A final documentation reveals the degree of fulfillment and the students' point of view on the scenario.

Professional competence:
The students:
- recognize basic properties and facts of a digital transformation for companies
- define different terms of digital transformation
- expose actual introduction projects
- compile practical knowledge by dividing goals of enabler and actors of a digital transformation
- obtain basic knowledge of key competences such as IT-Security, Data Analytics, Big Data, Cloud Computing
- identify digital business models within the specific development potential

Methodological competence:
The students:
- determine and analyse required information
- prepare the given information for specific target groups
- establish an analytical understanding of digital enterprise structures within key competences and applications

Social competence:
The students:
- work in groups, identify work packages and take on responsibility for the jobs assigned to them
- discuss and introduce the results on a functional level

Self-competence:
The students:
- reflect their actions on the basis of self defined objectives
- analyse their own state of knowledge

Module contents:
Within the lecture the upcoming topics are discussed:
• definition and introduction of digital transformation
• success factors, market changes and introductory projects
• enabler of a digital transformation (competences, applications and structures)
• digital business models and networks
• acteurs of a digital transformation
• industry 4.0 in the context of a digital transformation

Reader’s advisory


Links
http://www.wi-ol.de

Languages of instruction
German, English

Duration (semesters)
1 Semester

Module frequency

Module capacity
unlimited

Modullevel
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Modular
je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination Time of examination Type of examination
Final exam of module After the end of the lecture period Papers, project or written examination.
Announcement at the beginning of the lecture period.

Course type Comment SWS Frequency Workload attendance
Lecture 2.00 SuSe and WiSe 28 h
Exercises 2.00 SuSe and WiSe 28 h

Total time of attendance for the module
56 h