inf652 - Production-oriented Business Informatics

Module label: Production-oriented Business Informatics
Module code: inf652
Credit points: 6.0 KP
Workload: 180 h
Used in course of study:
- Master's Programme Business Informatics > Akzentsetzungsmodule Bereich Wirtschaftsinformatik
- Master's Programme Computing Science > Angewandte Informatik

Contact person
Module responsibility
- Axel Hahn
- Die im Modul Lehrenden

Authorized examiners
- Axel Hahn
- Die im Modul Lehrenden

Entry requirements

Skills to be acquired in this module
The module deepens the contents of the modules „Wirtschaftsinformatik“ and „Wirtschaftsinformatik/Informationsmanagement“. The students will be able to contextualise IT systems and their functions in companies. They are able to participate in the implementation of IT systems in companies. The students know the essential tasks of materials management, production planning and controlling, warehousing, acquisition and supply chain management.

Professional competence
The students:
- name and differentiate the basics of business informatics and information management
- classify IT systems and their functions in companies
- name and characterise the essential tasks of materials management, production planning and controlling, warehousing, acquisition and supply chain management

Methodological competence
The students:
- transfer a holistic development process of production planning and control
- implement IT systems in businesses

Social competence
The students:
- participate in implementing IT systems in companies
- construct and present computational solutions to groups and within their work group
- integrate professional and objective criticism in their own and others’ results

Self-competence
The students:
- recognize the planning horizon for IT systems
- reflect their role and skills to implement IT systems in businesses

Module contents
The module “Production-oriented Business Informatics” deals especially with production planning and control processes affected by process planning tasks, as well as classic problems of industrial production. The lecture is focussed on the application of information systems in industrial production companies. Priorities are order flow business processes and PPS-/ERP-Systems. Case studies and demonstrations illustrate the application of these systems.

Reader’s advisory
- Kurbel, Karl: Produktionsplanung und -steuerung im Enterprise Resource Planning und Supply Chain Management, Oldenbourg Verlag, 2005
- Further literature will be announced in the lecture
Links

<table>
<thead>
<tr>
<th>Language of instruction</th>
<th>German</th>
</tr>
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<tbody>
<tr>
<td>Duration (semesters)</td>
<td>1 Semester</td>
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<tr>
<td>Module frequency</td>
<td>jährlich</td>
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<td>Module capacity</td>
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<td>Module level</td>
<td>AS (Akzentsetzung / Accentuation)</td>
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<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
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<td>Lern-/Lehrform / Type of program</td>
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</tbody>
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Vorkenntnisse / Previous knowledge

<table>
<thead>
<tr>
<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final exam of module</td>
<td>At the end of the lecture period</td>
<td>Exercises and written exam</td>
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<thead>
<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
<th>Workload attendance</th>
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<tbody>
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<td>3.00</td>
<td>SuSe and WiSe</td>
<td>42 h</td>
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<tr>
<td>Exercises</td>
<td></td>
<td>1.00</td>
<td>SuSe and WiSe</td>
<td>14 h</td>
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Total time of attendance for the module

- Lecture: 3.00 SWS, SuSe and WiSe, 42 h
- Exercises: 1.00 SWS, SuSe and WiSe, 14 h
- Total: 56 h