

## Module Description

### IN2275: Internet-based Information Systems

#### TUM Department of Informatics

<b>Module level:</b> Master	<b>Language:</b> German	<b>Module duration:</b> one semester	<b>Occurrence:</b> winter semester
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<b>Credits*:</b> 4	<b>Total number of hours:</b> 120	<b>Self-study hours:</b> 90	<b>Contact hours:</b> 30
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\* The number of credits can vary depending on the corresponding SPO version. The valid number is always indicated on the Transcript of Records or the Performance Record.

#### Description of achievement and assessment methods:

Students solve exercise sheets during the lab course, which then build the basis for an oral examination. This type of assessment proves that students are individually capable to design and implement small internet-based information systems. Moreover, the participants have to pass a written test or oral examination to ensure they know common architectures and techniques to design and implement internet-based information systems. All problems and questions demand the students to phrase their individual responses.

<b>Exam type:</b> written and oral	<b>Exam duration (min.):</b> 60	<b>Possibility of re-taking:</b> In the next semester: No At the end of the semester: No	<b>Homework:</b> No
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<b>Lecture:</b> No	<b>Conversation:</b> No	<b>Written paper:</b> No
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#### (Recommended) requirements:

Introduction to Programming

#### Contents:

Java programming, object oriented design, web applications & java APIs, solving optimization problems with Gurobi

#### Study goals:

After successful completion of the module students are able to evaluate architectures and techniques for the design and implementation of internet-based information systems. In addition, participants are individually capable to develop such basic systems by using established standards.

#### Teaching and learning methods:

The teaching and learning method is a lab course, in which participants solve exercises that cover technical programming problems regarding the implementation of basic internet based information systems in supervised single person work. Furthermore, students work in teams to interactively design applications and to learn the constructive assessment of their own work and the work of others. Participants particularly train their programming skills by designing Java applications and Gurobi.

#### Media formats:

Exercise sheets, PowerPoint, PC and E-Learning platform

#### Literature:

Slides and online-sources for relevant standards. Java in a Nutshell, David Flanagan O'Reilly November 2002 ISBN

978-3-89721-752-2. Java Web Services: Up and Running Martin Kalin O'Reilly Februar 2009 ISBN 978-0-596-52112-7.

**Responsible for the module:**

Bichler, Martin; Prof. Dr.: [martin.bichler@mytum.de](mailto:martin.bichler@mytum.de)

**Courses (Type, SH) Lecturer:**

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For further information about this module and its allocation to the curriculum see:  
<https://campus.tum.de/tumonline/wbModHb.wbShowMHBRadOnly?pKnotenNr=768301>

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