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**Aktuelle Modulbeschreibung**

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| **Module Number:** | **12316** |
| **Module Title:** | **Specification Languages and Processing Techniques for Web Documents** |
|  | Spezifikationssprachen und Verarbeitungstechniken für Webdokumente |
| **Department:** | Faculty 1 - Mathematics, Computer Science, Physics, Electrical Engineering and Information Technology |
| **Responsible Staff Member:** | * Prof. Dr. phil. habil. Wagner, Gerd |
| **Language of Teaching / Examination:** | English |
| **Duration:** | 1 semester |
| **Frequency of Offer:** | Every winter semester |
| **Credits:** | 6 |
| **Learning Outcome:** | * To get familiar with the basic technologies of the World Wide Web * To acquire the skills for designing and implementing Web pages and Web documents |
| **Contents:** | * XML (DocBook, MathML, SVG) * Document Type Definitions (DTD), XML Schema * XHTML * CSS * JavaScript * Document Object Model (DOM) * XPath, XSLT * RDF |
| **Recommended Prerequisites:** | None |
| **Mandatory Prerequisites:** | None |
| **Forms of Teaching and Proportion:** | * Lecture / 2 Hours per Week per Semester * Exercise / 2 Hours per Week per Semester * Study project / 4 Hours per Week per Semester * Self organised studies / 60 Hours |
| **Teaching Materials and Literature:** | Will be distributed during the course. |
| **Module Examination:** | Continuous Assessment (MCA) |
| **Assessment Mode for Module Examination:** | * Successful completion of two project assignments (50%), * Weekly online quizzes/tests, each 15 minutes (50%) |
| **Evaluation of Module Examination:** | Performance Verification – graded |
| **Limited Number of Participants:** | None |
| **Part of the Study Programme:** | * Abschluss im Ausland / Architektur / keine Prüfungsordnung * Abschluss im Ausland / Betriebswirtschaftslehre / keine Prüfungsordnung * M.Sc. / Cyber Security (research-oriented profile) / Prüfungsordnung 2017 * B.Sc. / eBusiness (research-oriented profile) / Prüfungsordnung 2007 * Abschluss im Ausland / Environmental and Resource Management / keine Prüfungsordnung * Abschluss im Ausland / Informatik / keine Prüfungsordnung * B.Sc. / Informatik (research-oriented profile) / Prüfungsordnung 2008 - 1. SÄ 2017 * Abschluss im Ausland / Informations- und Medientechnik / keine Prüfungsordnung * B.Sc. / Informations- und Medientechnik (research-oriented profile) / Prüfungsordnung 2008 * B.Sc. / Mathematik (research-oriented profile) / Prüfungsordnung 2007 * Abschluss im Ausland / Wirtschaftsingenieurwesen / keine Prüfungsordnung * M.Sc. / Wirtschaftsingenieurwesen (research-oriented profile) / Prüfungsordnung 2008 |
| **Remarks:** | * Study programme Computer Science B. Sc.: Compulsory elective module in complex "Practical Computer Science" (level 300). * Study programme Information and Media Technology B. Sc.: Compulsory elective module for "main focus 4: Media Technology and Media Science". * Study programme eBusiness B. Sc.: Specialised module. * Study programme Industrial Engineering M. Sc. (Field of study Computer Science): Compulsory elective module in "Technical Subject 1".   Old module title: „Web Documents (WebDocs)“ |
| **Module Components:** | * Lecture Web Documents (Specification Languages and Processing Techniques for Web Documents) * Exercise Web Documents (Specification Languages and Processing Techniques for Web Documents) * Examination Web Documents (Specification Languages and Processing Techniques for Web Documents)   Accompanying exercises (including study project) |
| **Components to be offered in the Current Semester:** | * [121110 Lecture Web Documents (Specification Languages and Processing Techniques for Web Documents) - 2 Hours per Week per Semester](https://www.b-tu.de/qisserver3/rds?state=verpublish&status=init&vmfile=no&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung&veranstaltung.veranstid=75977) * [121111 Exercise Web Documents (Specification Languages and Processing Techniques for Web Documents) - 2 Hours per Week per Semester](https://www.b-tu.de/qisserver3/rds?state=verpublish&status=init&vmfile=no&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung&veranstaltung.veranstid=75906) |