

Course title:	Facility Management		
Course code:	BM2 M10		
Type of course:	Lecture		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	First year		
ECTS Credits:	2.5		
Semester:	1st semester		
Name of the lecturer:	Wirtschaftsinformatiker Dieter Schukraft		
Course contents:	Implementation of Facility Management		
Prerequisites:	none		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • know how facility management is defined, • know about technical, infrastructural and commercial facility management, • be able to determine the organisation of an operation, • be able to define the responsibility of an operation, • be able to specify requirements for CAFM systems, • be able to calculate life cycle costs. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	Lecture notes GEFMA-Richtlinien IT im Facility Management erfolgreich einsetzen - Das CAFM-Handbuch		

Course title:	Strategic and Operative Management		
Course code:	BM2 M20		
Type of course:	Lecture		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	First year		
ECTS Credits:	2.5		
Semester:	1st semester		
Name of the lecturer:	Dipl.-Kfm. Walter Engelmann		
Course contents:	Provision of advanced knowledge in strategic and operative management		
Prerequisites:	Basic knowledge in strategic and operative management		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • be able to apply different analys tools in the field of strategic and operative management, • be able to comprehend the complexity of management tasks and to create holistic solutions. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Clausewitz - Strategie denken, Bolko v. Oetinger Das Boston Consulting Group Strategie Buch, Bolko v. Oetinger Vom Kriege, Sun Tzun Wertorientierte Unternehmensführung, Coenenberg/Salfeld New Positioning, Jack Trout Aufbruch zu neuer Größe, R.M. Tomasko Wharton - zur dynamischen Wettbewerbsstrategie, G.S.Day/D.J. Reibstein Spieltheorie für Einsteiger, Nalebuff/Dixit Erfolgreiches TQM in 7 Tagen, J. McDonald TQM for Purchasing Management, J.F. Cali Strategic Proactive Procurement, D.N. Burt/R.L. Pinkerton Advanced Supply Chain Management, C.C. Poirier Value-Added Purchasng, E.E. Scheuing Handbuch Beschaffung, Bouttelier/Wagner/Wehrli Die BSC, Norton/Kaplan Die strategiefokussierte Organisation – Führen mit der BSC, Norton/Kaplan</p>		

	<p>Führen, Fördern, Coachen, Haberleitner/Deistler/Ungvari Das neue 1x1 des Zeitmanagements, L.J. Seiwert Wenn Du es eilig hast gehe langsam, L.J. Seiwert Warum wir andere in die Pfanne hauen..., Vera F. Birkenbihl Stroh im Kopf, Vera F. Birkenbihl Das innere Archiv, Vera F. Birkenbihl Kommunikationstraining, Vera F. Birkenbihl Gewaltfreie Kommunikation, M.B. Rosenberg Anleitung zum Unglücklichsein, Paul Watzlawick Wie wirklich ist die Wirklichkeit, Paul Watzlawick Die erfundene Wirklichkeit, Paul Watzlawick Die Unsicherheit unserer Wirklichkeit, Paul Watzlawick Vom Unsinn des Sinns oder von Sinn des Unsinn, Paul Watzlawick Vom Schlechten des Guten, Paul Watzlawick Miteinander reden Bd1, F. Schulz von Thun Miteinander reden Bd2, F. Schulz von Thun Neuland des Denkens, Frederic Vester Denken, Lernen, Vergessen, Frederic Vester Phänomen Stress, Frederic Vester Getting to Yes, Fisher and Ury Das Harvard Prinzip, Fisher and Ury Ulysses and the sirens, Jon Elster Foundation of social choice theory, Jon Elster</p>
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Course title:	Company and Commercial Law
Course code:	BM2 M21
Type of course:	Lecture
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	2.5
Semester:	1st semester
Name of the lecturer:	Prof. Dr. iur. Andreas Luckey
Course contents:	Provision of basic knowledge in company and commercial law with a focus on partnerships and companies under German Law; insight into international forms of companies and partnerships
Prerequisites:	Basic knowledge in Civil Law is advantageous
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • be able to create own ideas on how to operate in the field of commerce and enterprise.
Language of instruction:	German

Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input checked="" type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Brox/Henssler, Handelsrecht, 19. Auflage 2006 Hueck/Windbichler, Gesellschaftsrecht, 21. Auflage 2008 Eisenhardt, Gesellschaftsrecht, 13. Auflage 2007 Kindler, Grundkurs Handels- und Gesellschaftsrecht, 3. Auflage 2008 Hüffer, Gesellschaftsrecht, 7. Auflage 2007 Habersack, Europäisches Gesellschaftsrecht, 3. Auflage 2006 Baumbach/Hopt, Handelsgesetzbuch, 33. Auflage 2008 Baumbach/Hueck, GmbH-Gesetz, 18. Auflage 2006 Hüffer, Aktiengesetz, 8. Auflage 2008 Heinz, Die englische Limited, 2. Auflage 2006 Just, Die englische Limited in der Praxis, 3. Auflage 2008 Just, Englisch-Gesellschaftsrecht, 1. Auflage 2008 Schnittker/Bank, Die LLP in der Praxis, 1. Auflage 2008 Mayson/French/Ryon, Company Law, 24. Auflage 2007/2008 Hemmer/Wüst, Handelsrecht, 8. Auflage 2008 Hemmer/Wüst, Gesellschaftsrecht, 9. Auflage 2007 Hemmer/Wüst, Kapitalgesellschaftsrecht, 3. Auflage 2005 Alpmann/Schmidt, Gesellschaftsrecht, 13. Auflage 2007 Alpmann/Schmidt, Handelsrecht, 12. Auflage 2008</p>		

Course title:	Project Development
Course code:	BM2 M30
Type of course:	Project
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	5
Semester:	1
Name of the lecturer:	Dipl.-Ing. Frensch; Dipl.-Ing. Kurz
Course contents:	The process of project development, basic methods of project development in the different life cycles of a building project, feasibility studies, developer cost estimates, project finance and trade, student project, presentation.
Prerequisites:	Basic knowledge in Project Management and Economics.
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • know how to develop a building project, • have learned the basics of finance and developer cost estimation, • have performed a student project and a presentation.

Language of instruction:	German		
Teaching methods:	Lecture supported by Power Point slides		
Assessment methods:	<input type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Baukosteninformationszentrum Deutscher Architektenkammern: BKI Baukosten, 3. Band, Stuttgart: BKI, 2006</p> <p>Isenhöfer: Strategisches Management von Projektentwicklungsunternehmen, Köln: Müller-Verlag, 1999</p> <p>Locher: HOAI, Düsseldorf: Werner-Verlag, 2007</p> <p>Runkel: BauGB (Baugesetzbuch), 10. Auflage, Köln: Bundesanzeiger-Verlag, 2007</p> <p>DIN 276, aktuelle Ausgabe</p> <p>Schulte/Bone-Winkel: Handbuch der Immobilien-Projektentwicklung, 2. Auflage, Köln: Müller-Verlag, 2005</p> <p>Schulte, Brade: Handbuch Immobilien-Marketing, 2. Auflage, Köln: Müller-Verlag, 2001</p>		

Course title:	Time Management and Cost Management
Course code:	B2M M35, B2M M36
Type of course:	Project
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	5
Semester:	1st semester
Name of the lecturer:	Prof. Dr.-Ing. Hütter
Course contents:	<p>The students learn different methods to create a time schedule for a major building project containing the phases of design, planning, contracting and building. They use the Primavera Project Planner for time planning and perform a student project based on a real examples.</p> <p>The students create a complete cost plan for a major project that includes risk analysis, price increase, etc. They consider fees and costs for all project partners and perform cost control, cost action and cost reporting.</p>
Prerequisites:	Knowledge of DIN 276 and 277, of cost estimate methods with characteristic values, of time scheduling, and of the Primavera Project

	Planner.		
Course objectives expressed in learning outcomes and competences:	After having successfully completed the course, the students should <ul style="list-style-type: none"> • have learned how to manage a real estate project in respect of time planning, cost planning, and control and action, • have learned how to estimate costs and resources in order to plan the capacity in design and construction • have learned to create a time schedule with the help of the Primavera Project Planner, • have learned to create a cost plan with the help of the BKI cost planner, • have learned to work out reports. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by Power Point slides and presentations held by the students		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	Baukosteninformationszentrum Deutscher Architektenkammer: BKI Baukosten 2005, Teil 1: Kostenkennwerte für Gebäude; Teil 2: Kostenkennwerte für Bauelemente, Stuttgart: BKI Baukosteninformationszentrum. 2008. Bohn/Hütter/Funke: Projektmanagement im Abwasser- und Abfallwesen. Innovatives Bauen im Focus, Renningen-Malmsheim: expert-Verlag, 1999 Fiedler: Controlling von Projekten, 3. Auflage, Wiesbaden: vieweg-Verlag, 2005 Kochendörfer/Viering/Liebchen: Bau-Projektmanagement, 3. Auflage, Wiesbaden: Teubner-Verlag, 2007 Sommer: Projektmanagement im Hochbau, 2. Auflage, Berlin/Heidelberg: Springer-Verlag, 1998 Volkmann: Projektentwicklung, 2. Auflage, Essen: Wingen-Verlag, 2003 Winkler/Fröhlich: Hochbaukosten – Flächen – Rauminhalte, 10. Auflage, Braunschweig/Wiesbaden/Berlin/Köln/Frankfurt (Main): vieweg-Verlag, 2006 HOAI, VOB, VOL, VOF, DIN 276, DIN 277		

Course title:	Operations Research
Course code:	BM2 840
Type of course:	Lecture
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	5
Semester:	1st semester

Name of the lecturer:	Prof. Dr. rer. nat. Wilderotter		
Course contents:	<p>Linear optimisation: introduction and motivation, the simplex method, post-optimality analysis, duality theory, economic interpretation of duality, applications and economic interpretation (production planning, mixture problems)</p> <p>Forecasting: forecasting procedures for a constant level model, a forecasting procedure for a linear trend model, a forecasting procedure for a constant level with seasonal effects model</p> <p>The transportation problem: the terminology of graph theory, Dijkstra algorithm, traveling salesman problems</p> <p>Network models: the terminology of networks, applications in project management (project planning and control with REPT-CPM).</p>		
Prerequisites:	Mathematics I and Mathematics II		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • be able to apply operations research methods for solving many engineering and economic problems. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by transparencies and Power Point slides		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input checked="" type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Domschke/Drexel: Einführung in Operations Research; Springer Verlag, 2004</p> <p>Dürr/Kleibohm: Operations Research. Lineare Modelle und ihre Anwendungen; Fachbuchverlag Leipzig, 1992</p> <p>Lutz: Operations Research Verfahren – verstehen und anwenden; Fortis Verlag FH, 1998</p> <p>Neumann/Morlock: Operations Research; Hanser Verlag, 2002</p>		

Course title:	Methods of Scientific Work
Course code:	BM2 M50
Type of course:	Project
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	2.5

Semester:	1st semester		
Name of the lecturer:	Prof. Dr.-Ing. Hütter		
Course contents:	Techniques and methods for performing scientific work, such as designing Word documents, doing literature research work in libraries and databases, writing a literature review, or writing a thesis		
Prerequisites:	none		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • be able to do research, • be able to create a professionally designed Word document, • be able to quote correctly, • be able to perform scientific work, • be able to write a thesis. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by Power Point slides and project work		
Assessment methods:	<input type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Rechenberg: Technisches Schreiben (nicht nur) für Informatiker. 2003, 3. Auflage, München: Hanser-Verlag, 2006</p> <p>Theisen: Wissenschaftliches Arbeiten, 13. Auflage, München: Vahlen-Verlag, 2006</p> <p>Winter: Wissenschaftliche Arbeiten schreiben, 2. Auflage, Frankfurt am Main: Redline Wirtschaft-Verlag, 2005</p> <p>Naoum: Dissertation Research and Writing for Construction Students, 2. Edition, Amsterdam: Elsevier Butterworth-Heinemann-Verlag, 2006</p>		

Course title:	Business English
Course code:	BM2 M51
Type of course:	Lecture
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	2.5

Semester:	1st semester		
Name of the lecturer:	Mrs. Helenka Lorenz		
Course contents:	<p>Students will learn to conduct themselves in English in various business and private situations on a solid communicative level. Furthermore they will learn to hold discussions in English and be able to convey their points of view understandably using a refined range of vocabulary. Students will learn to express themselves using correct intermediate grammar. Students will learn to be aware of some of the cultural differences in business dealings in some countries (i.e. Germany and USA). Students will learn to write short business letters and emails on various subjects, and give short presentations in formal and informal English.</p>		
Prerequisites:	none		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • be able to express themselves in Business English. 		
Language of instruction:	English		
Teaching methods:	Lecture supported by Power Point slides		
Assessment methods:	<input type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input checked="" type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Business English: Intelligent Business Intermediate: Unit 6 - 10, Coursebook, The Economist, 2006 Intelligent Business Intermediate: Unit 6 - 10, Workbook, The Economist, 2006</p>		

Course title:	Due Diligence (Real Estate)		
Course code:	BM3 M10		
Type of course:	Lecture		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	First year		
ECTS Credits:	2.5		
Semester:	2nd semester		
Name of the lecturer:	Prof. Dr.-Ing. Hütter		
Course contents:	Basics of Due Diligence in the context of real estate. The main components of Due Diligence, such as market DD, technical DD, legal		

	DD, tax DD, environmental DD, financial DD etc., are defined by means of exemplary descriptions. Application checklists are worked out and discussed. .
Prerequisites:	Basic knowledge in finance, cost planning and project development
Course objectives expressed in learning outcomes and competences:	After having successfully completed the course, the students should <ul style="list-style-type: none"> • know the main components of Due Diligence, • understand the relations between the different disciplines.-
Language of instruction:	German
Teaching methods:	Lecture supported by Power Point slides
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Presentation <input type="checkbox"/> <input type="checkbox"/> Written assignment <input type="checkbox"/> Project work <input type="checkbox"/> Oral exam <input type="checkbox"/> Practical exercises <input type="checkbox"/>
Recommended reading:	Schulte/Bone-Winkel: Handbuch der Immobilien-Projektentwicklung, 2. Auflage, Köln: Müller-Verlag, 2005

Course title:	Real Estate Industry
Course code:	BM3 M11
Type of course:	Seminar
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	2.5
Semester:	2nd semester
Name of the lecturer:	Prof. Dr. Bernd Breunig
Course contents:	<p>The students are provided with fundamental knowledge in investment and finance as well as skills in planning construction costs, project development and accountancy.</p> <p>The market situation serves as a starting point. Therefore, statistical data such as population figures, budget structure, purchasing power, market saturation, generally accepted rules of building and construction, construction costs, recoverable rental income, etc. must be researched. Interdisciplinary interrelationships with, for example, sociological and economic conditions must be researched and identified.</p>
Prerequisites:	Basic knowledge in in Cost Accounting in Construction Industries, Investment and Finance / Investition und Finanzierung and Project Development is advantageous.

Course objectives expressed in learning outcomes and competences:	After having successfully completed the course, the students should <ul style="list-style-type: none"> • have learned the principles concerning the management of property markets. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input checked="" type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Breunig, Bernd, Immobilienwirtschaft - eine Einführung, Skript zur Vorlesung als pdf- Datei, Karlsruhe 2006</p> <p>Kleiber / Simon / Weyers, Verkehrswertermittlung von Grundstücken, Kommentar und Handbuch zu den Rechtsgrundlagen des Baugesetzbuches (BauGB) und der Wertermittlungsverordnung (WertV) zur Ermittlung des Verkehrswertes von Grundstücken, Bundesanzeiger, Köln 1991</p> <p>Mändle, Eduard / Galonska, Jürgen (Hg), Wohnungs- und Immobilienlexikon, Hammonia- Verlag, Hamburg 1997 mit Beiträgen des Dozenten zu den Schlagwörtern: „Bauleitung“, „Baustelle“, „Bauunterlagen“, „Leistungs- beschreibung / Leistungsberechnung“, „Massenberechnung“, „Schlussabnahme und Schlussabrechnung“, „Terminplanung bei der Bauerstellung“.</p> <p>Murfeld, Egon, Spezielle Betriebswirtschaftslehre der Grundstücke- und Wohnungswirtschaft, Hamburg, o.J.</p> <p>Schulte, Karl- Werner / Vogler, Jochen H., Handbuch Immobilien- Investition, Köln 1998 (all books in the newest version)</p>		

Course title:	Quality Management (TQM)
Course code:	BM3 M20
Type of course:	Lecture
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	2.5
Semester:	2nd semester
Name of the lecturer:	Prof. Dr.-Ing. Hütter
Course contents:	Basic concepts of quality management in different countries, total quality management, customer orientation, process orientation, EFQM model, self-assesment processes, quality techniques such as Q7, M7, D7.

Prerequisites:	none									
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • know what total quality management is, • be able to use the quality techniques to solve problems, • understand the necessities for TQM in companies. 									
Language of instruction:	German									
Teaching methods:	Lecture supported by Power Point slides and practical exercises									
Assessment methods:	<table border="0"> <tr> <td><input checked="" type="checkbox"/> Written exam</td> <td><input type="checkbox"/> Presentation</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Written assignment</td> <td><input type="checkbox"/> Project work</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Oral exam</td> <td><input type="checkbox"/> Practical exercises</td> <td><input type="checkbox"/></td> </tr> </table>	<input checked="" type="checkbox"/> Written exam	<input type="checkbox"/> Presentation	<input type="checkbox"/>	<input type="checkbox"/> Written assignment	<input type="checkbox"/> Project work		<input type="checkbox"/> Oral exam	<input type="checkbox"/> Practical exercises	<input type="checkbox"/>
<input checked="" type="checkbox"/> Written exam	<input type="checkbox"/> Presentation	<input type="checkbox"/>								
<input type="checkbox"/> Written assignment	<input type="checkbox"/> Project work									
<input type="checkbox"/> Oral exam	<input type="checkbox"/> Practical exercises	<input type="checkbox"/>								
Recommended reading:	<p>Bruhn: Wirtschaftlichkeit des Qualitätsmanagements, Berlin/Heidelberg: Springer-Verlag, 1998</p> <p>Greßler, Göppel: Qualitätsmanagement, 5. Auflage, Troisdorf: Bildungsverlag EINS-Stam-Verlag, 2006</p> <p>Kamiske, Umbreit: Qualitätsmanagement eine multimediale Einführung, 3. verbesserte Auflage, Leipzig: Fachbuch-Verlag, 2006</p> <p>Kaminske: Qualitätswissenschaft für Manager, 2. Auflage, Norderstedt: Books on Demand-Verlag, 2005</p> <p>Jungwirth: Qualitätsmanagement im Bauwesen, 2. Auflage, Düsseldorf: VDI-Verlag, 1996</p> <p>Pfeifer: Praxishandbuch Qualitätsmanagement, 2. Auflage, München: Hanser-Verlag, 2001</p> <p>Zollondz: Grundlagen Qualitätsmanagement, 2. Auflage, München: Oldenbourg-Verlag, 2006</p>									

Course title:	Quality Management of Design and Tendering Procedures
Course code:	BM3 M21
Type of course:	Lecture
Level of course:	Master
Degree programme:	Construction Management and Economics
Year of study:	First year
ECTS Credits:	2.5
Semester:	2nd semester

Name of the lecturer:	Prof. Dr.-Ing. Korn		
Course contents:	<ul style="list-style-type: none"> • Quality management - why?: motivation and incentives for implementing quality management systems • Quality management foundations in German standardisation (DIN): international standardisation organisations, revisions of quality management standardisation • Process-oriented quality management: system, process, process model • Quality management in the administration and organisation of tendering procedures • Quality management in terms of communication during tendering procedures: structured communication by internet-based project communication systems • Implementation of quality management systems: steps and obstacles • Template for a quality management handbook for procurement consultancy corporations 		
Prerequisites:	none		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • be able to transfer the general requirements on quality management systems to specific solutions for the quality control of design and tendering procedures, • have achieved knowledge of process definitions, classifications and assessments, • be able to draw up a quality management handbook's template for procurement consultancy corporations, • be able to identify the main demands on quality management systems, • be able to critically assess the conception of quality management systems, • be able to organise an implementation process of a quality management system in design or procurement consultancy corporations. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture notes, blackboard notes, Power Point slides and practical exercises / tests		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<ul style="list-style-type: none"> • Busch: Risikomanagement in Generalunternehmen, 1. Auflage, Zürich: IBB-Verlag, 2003 • DIN EN ISO 9000:2005: Qualitätsmanagementsysteme - Grundlagen und Begriffe • DIN EN ISO 9001:2000: Qualitätsmanagementsysteme - Anforderungen • DIN EN ISO 9004:2000: Qualitätsmanagementsysteme - Leitfaden zur Leistungsverbesserung • DIN EN ISO 19011:2002: Leitfaden für das Audit von Qualitätssicherungssystemen • Flucher, et. al.: Mediation im Bauwesen, Berlin: Ernst-Verlag, 2003 • Forschungsgesellschaft für Straßen- und Verkehrswesen (Hrsg.): 		

	<p>Leitfaden für das Qualitätsmanagement im Straßenbau - Teil: Einsatz von Ingenieurbüros bei der Ausschreibung und Ausführung von Straßenbauleistungen, Köln: FGSV-Verlag, 2004</p> <ul style="list-style-type: none"> • Forschungsgesellschaft für Straßen- und Verkehrswesen (Hrsg.): Leitfaden für das Qualitätsmanagement im Straßenbau - Teil: Kompendium, Köln: FGSV-Verlag, 2004 • Jungwirth: Qualitätsmanagement im Bauwesen, 2. Auflage, Düsseldorf: VDI-Verlag, 1996 • Noe: Projektbegleitendes Qualitätsmanagement, 1. Auflage, Erlangen: PUBLICIS Kommunikations Agentur, 2006
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Course title:	Philosophy
Course code:	BM3 M50
Type of course:	Seminar
Level of course:	Master
Degree Program:	Construction Management and Economics
Year of study:	Firs year
ECTS Credits:	2.5
Semester:	2nd semester
Name of the lecturer:	Prof. Dr. Bernd Breunig
Course contents:	<ul style="list-style-type: none"> • The disciplines of theoretical philosophy; epistemology; logics and dialectics; ethics and aesthetics; • The disciplines of practical philosophy, meaning the disciplines of Mathematics, of nature, of culture, of law, of religion; of sociology and of languages • Philosophic history of mankind; • Ancient philosophy; the pre-Socratic philosophers, Socrates, Plato, Aristotle, the Stoics, Seneca, Epictetus, Marcus Aurelius, Epicurus, Lucrece, Cicero, Plutarch; • Medieval philosophy; St. Augustine, St. Anselm of Canterbury , St. Thomas Aquinas, Meister Eckehart, Nicholas of Cusa, Martin Luther, Calvin; • Modern philosophy; Niccolo Machiavelli, Michael de Montaigne, Giordano Bruno, Descartes, Hobbes, Leibnitz, Pascal, Immanuel Kant, Fichte, Hegel, Kierkegaard, Nietzsche; Max Weber, Karl Marx, Leopold von Ranke, Jakob Burckhardt, Darwin, Sigmund Freud
Prerequisites:	none
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • have learned about different philosophic ideas
Language of instruction:	German

Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input checked="" type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	Leisegang, Hans, Einführung in die Philosophie, Sammlung Göschen, Bd. 281, Berlin 1969 Jaspers, Karl, Einführung in die Philosophie, Zürich 1950 Orthbandt, Eberhard, Geschichte der großen PHilosophen, Hanau, o.Jg.		

Course title:	Ethics		
Course code:	BM3 M51		
Type of course:	Seminar		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	First year		
ECTS Credits:	2.5		
Semester:	2nd semester		
Name of the lecturer:	Prof. Dr. Bernd Breunig		
Course contents:	<ul style="list-style-type: none"> • Terms: ethics, morals, cultures, values, standards, corporate identity, • Philosophic roots: Socrates, Platon, Aristotle, John Locke, David Hume, Adam Smith, Immanuel Kant, Jean Jacques Rousseau, Max Weber, Hans Jonas, John Rawls, Jürgen Habermas; • Religious roots; Bible, Peter Ulrich, Horst Steinmann, Karl Hohmann, Josef Wieland; • Ethic management in Construction Management and Economics 		
Prerequisites:	none		
Course objectives expressed in learning outcomes and competences:	After having successfully completed the course, the students should <ul style="list-style-type: none"> • be able to apply different tools in the field of Ethics and to come to ethic solutions. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input checked="" type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>

Recommended reading:	<p>Aristoteles, Nikomachische Ethik, Zürich 1952</p> <p>Breunig, Bernd, Ethik für Baumanager - eine Einführung, Manuskript zur Vorlesung als pdf- Datei, Karlsruhe 2006</p> <p>Sutor, Bernhard, Kleine politische Ethik, Schriftenreihe 341 der Bundeszentrale für politische Bildung, Bonn 1997</p> <p>Weber, Max, Soziologie, Weltgeschichtliche Analysen, Politik in Winckelmann, Johannes (Hg), Kröner, Stuttgart 1968</p>
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Course title:	Project work		
Course code:	BM3 M60		
Type of course:	Practical work		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	First year		
ECTS Credits:	2.5		
Semester:	2nd semester		
Name of the lecturer:	Prof. Dr.-Ing. Hütter		
Course contents:	Methods of project-oriented work, project instructions, realisation of a practical project on the basis of the project instructions.		
Prerequisites:	none		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • be able to define the project's objectives, the main tasks and the expectations of the customer, • be able to complete a defined volume of work in a limited time frame, • be able to present the results in an professional manner. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by Power Point slides and coaching sessions		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:			

Course title:	Basics of Public Private Partnership Projects		
Course code:	BM3 Mxx		
Type of course:	Lecture		
Level of course:	Master		
Degree programme:	Construction Management and Economics		
Year of study:	First year		
ECTS Credits:	2.5		
Semester:	2nd semester		
Name of the lecturer:	Prof. Dr.-Ing. Korn		
Course contents:	<ul style="list-style-type: none"> • Basics and characteristics of PPP models • Parties' motivations and interests • Contract models • Obstacles for PPP models • Framework for PPP models in the construction sector • Finance of PPP-models 		
Prerequisites:	none		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • have achieved an overview on the wide range of various models for life-cycle oriented public private partnership projects, • understand interests both of the public partner and of the private client, • know structured proceedings and appropriate approaches for problem solutions to organize PPP projects of different types, • be able to identify the relevant parameters both for the public client party and for the private employer party, • be able to anticipate and to comprehend the arguments of both the public client and the private employer. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture notes, blackboard notes, Power Point slides and practical exercises / tests		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<ul style="list-style-type: none"> • Gralla: Garantierter Maximalpreis, 1. Auflage, Wiesbaden: Teubner-Verlag, 2001 • Lange: Musterbriefe in Englisch für den Auslandsbau, 2. Auflage, Wiesbaden: 2007 • Nemuth: Risikomanagement bei internationalen Bauprojekten, 1. Auflage, Renningen: expert-Verlag, 2006 		

	<ul style="list-style-type: none"> • VBI (Hrsg.): FIDIC Red Book - Erläuterungen und Übersetzungen, 1. Auflage, Berlin: 2006 • Winter: Contractor Led Procurement, 1. Auflage, Wiesbaden: Teubner-Verlag, 2003 • Winter: Contractor Led Procurement, 1. Auflage, Wiesbaden: Teubner-Verlag, 2003
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Course title:	International Construction Markets		
Course code:	BM3 M70		
Type of course:	Lecture		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	First year		
ECTS Credits:	2.5		
Semester:	2nd semester		
Name of the lecturer:	Prof. Dr.-Ing. Gerd Bergweiler		
Course contents:	Projects in their planning stages, calculation, project management, logistics, organisation		
Prerequisites:	Basic knowledge of economy and construction industry		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • the processes playing a role in international construction markets. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture notes and hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input checked="" type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	Kulick: Auslandsbau, Teubner Verlag 2003, Dorner: BOT Projekte, Müller Verlag Heidelberg		

Course title:	International Business		
Course code:	BM3 M71		
Type of course:	Lecture		
Level of course:	Master		
Degree programme:	Construction Management and Economics		
Year of study:	First year		
ECTS Credits:	2.5		
Semester:	2nd semester		
Name of the lecturer:	Dipl.-Kaufmann Walter Engelmann		
Course contents:	Strategic, operative and systematic planning of companies		
Prerequisites:	Basic knowledge of economy and construction industry		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • the principles of international business markets. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture notes and hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	Gälweiler: Strategische Unternehmensführung, 3. Auflage, Campus Verlag, 2005 Ehrmann: Unternehmensplanung, 5. Auflage, Kiehl Verlag 2007 Rahn: Unternehmensführung, 6. Auflage, Kiehl Verlag 2005		

Course title:	InternationalTendering Procedures		
Course code:	BM3 M75		
Type of course:	Lecture		
Level of course:	Master		
Degree programme:	Construction Management and Economics		
Year of study:	First year		

ECTS Credits:	2.5		
Semester:	2nd semester		
Name of the lecturer:	Prof. Dr.-Ing. Korn		
Course contents:	<ul style="list-style-type: none"> • Supranational interest groups of the construction industry • Basic structures of construction projects abroad • Framework of the European construction market • Organization of international construction projects • European framework of tendering procedures • Tendering procedures in the UK • Tendering procedures in France • Tendering procedures in the US 		
Prerequisites:	none		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • have gained insights into the basic structure of parameters which describe the relationship between the partners in UK, French and international construction projects, • have achieved good knowledge not only of the requirements of technical specifications but also of economic and legal parameters of tendering procedures, • be able to identify the relevant parameters for international construction corporations in terms of acquiring projects by means of tendering procedures, • be able to identify essential information for corporate decisions in international projects, • be able to understand why certain forms of contractual relationships are more or less suited for international projects. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture notes, blackboard notes, Power Point slides and practical exercises / tests		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<ul style="list-style-type: none"> • Gralla: Garantierter Maximalpreis, 1. Auflage, Wiesbaden: Teubner-Verlag, 2001 • Lange: Musterbriefe in Englisch für den Auslandsbau, 2. Auflage, Wiesbaden: 2007 • Nemuth: Risikomanagement bei internationalen Bauprojekten, 1. Auflage, Renningen: expert-Verlag, 2006 • VBI (Hrsg.): FIDIC Red Book - Erläuterungen und Übersetzungen, 1. Auflage, Berlin: 2006 • Winter: Contractor Led Procurement, 1. Auflage, Wiesbaden: Teubner-Verlag, 2003 • Ausführung von Straßenbauleistungen, Köln: FGSV-Verlag, 2004 • Forschungsgesellschaft für Straßen- und Verkehrswesen (Hrsg.): Leitfaden für das Qualitätsmanagement im Straßenbau - Teil: Kompendium, Köln: FGSV-Verlag, 2004 • Jungwirth: Qualitätsmanagement im Bauwesen, 2. Auflage, Düsseldorf: VDI-Verlag, 1996 • Noe: Projektbegleitendes Qualitätsmanagement, 1. Auflage, 		

	Erlangen: PUBLICIS Kommunikations Agentur, 2006
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Course title:	International Finance									
Course code:	BM3 M76									
Type of course:	Lecture									
Level of course:	Master									
Degree programme:	Construction Management and Economics									
Year of study:	First year									
ECTS Credits:	2.5									
Semester:	2nd semester									
Name of the lecturer:	Prof. Dr.-Ing. Korn									
Course contents:	<ul style="list-style-type: none"> • Financial mathematics • Financing methods in the construction industry • Financial markets • Drivers for and variability of interest rates • Basel II, implications regarding the construction industry • Project financing • Export financing 									
Prerequisites:	none									
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • know the basic proceedings in financial modeling for projects funded by project finance, • consider finance as a key fact for economically successful construction projects, • be able to identify the relevant parameters for international construction corporations when it comes to acquiring project funds, • have knowledge of technical and financial terms in international projects such that communication with international partners will be considerably easier. 									
Language of instruction:	German									
Teaching methods:	Lecture supported by lecture notes, blackboard notes, Power Point slides and practical exercises / tests									
Assessment methods:	<table border="0"> <tr> <td><input checked="" type="checkbox"/> Written exam</td> <td><input type="checkbox"/> Presentation</td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Written assignment</td> <td><input type="checkbox"/> Project work</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Oral exam</td> <td><input type="checkbox"/> Practical exercises</td> <td><input type="checkbox"/></td> </tr> </table>	<input checked="" type="checkbox"/> Written exam	<input type="checkbox"/> Presentation	<input type="checkbox"/>	<input type="checkbox"/> Written assignment	<input type="checkbox"/> Project work		<input type="checkbox"/> Oral exam	<input type="checkbox"/> Practical exercises	<input type="checkbox"/>
<input checked="" type="checkbox"/> Written exam	<input type="checkbox"/> Presentation	<input type="checkbox"/>								
<input type="checkbox"/> Written assignment	<input type="checkbox"/> Project work									
<input type="checkbox"/> Oral exam	<input type="checkbox"/> Practical exercises	<input type="checkbox"/>								
Recommended reading:	<ul style="list-style-type: none"> • Gralla: Garantierter Maximalpreis, 1. Auflage, Wiesbaden: Teubner-Verlag, 2001 • Lange: Musterbriefe in Englisch für den Auslandsbau, 2. Auflage, 									

	<p>Wiesbaden: 2007</p> <ul style="list-style-type: none"> • Nemuth: Risikomanagement bei internationalen Bauprojekten, 1. Auflage, Renningen: expert-Verlag, 2006 • VBI (Hrsg.): FIDIC Red Book - Erläuterungen und Übersetzungen, 1. Auflage, Berlin: 2006 • Winter: Contractor Led Procurement, 1. Auflage, Wiesbaden: Teubner-Verlag, 2003
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Course title:	International Tax Law		
Course code:	BM4 M80		
Type of course:	Lecture		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	Second year		
ECTS Credits:	2.5		
Semester:	3rd semester		
Name of the lecturer:	Dipl.-Kfm. Dr. Michael Ohmer		
Course contents:	Provision of basic knowledge in international tax law		
Prerequisites:	Basic knowledge of national tax law is advantageous		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • have learned the principles of international tax law, • be able to apply relevant parts of tax law in professional business. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Birk, Dieter, Steuerrecht Wirtschaftsprüfer-Handbuch Beck'scher Bilanzkommentar Jacobs, Otto H., Internationale Unternehmensbesteuerung</p> <p>(all books in the newest version)</p>		

Course title:	International Construction Law		
Course code:	BM4 M81		
Type of course:	Lecture		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	Second year		
ECTS Credits:	2.5		
Semester:	3rd semester		
Name of the lecturer:	Prof. Dr. iur. Andreas Luckey		
Course contents:	Provision of advanced knowledge in international construction law		
Prerequisites:	Basic knowledge of national and international construction law is advantageous		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • be able to create solutions with legal certainty in the field of international construction processes. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input checked="" type="checkbox"/> Presentation <input checked="" type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Hök, Handbuch des internationalen und ausländischen Baurechts, 2005 Kulick, Auslandsbau, 1. Auflage 2003</p> <p>Roquette/Otto, Vertragsbuch Privates Baurecht, 1. Auflage 2005</p> <p>Sweet/Schneider, Legal Aspects of Architecture, Engineering and the Construction Process, 7th Edition, Verlag Thomson, ISBN: 0534-46467-X Uff, Construction Law, 8th Edition, Verlag Sweet & Maxwell, ISBN: 0421769904</p> <p>Murdoch/Hughes, Construction Contracts - Law and Management, 3. Auflage 2000</p> <p>Holtmann, Europarecht, 4. Auflage 2006</p> <p>Hemmer/Wüst, Europarecht, 9. Auflage 2006</p>		

Course title:	Labour Law		
Course code:	BM4 M82		
Type of course:	Lecture		
Level of course:	Master		
Degree Program:	Construction Management and Economics		
Year of study:	Second year		
ECTS Credits:	1		
Semester:	3rd semester		
Name of the lecturer:	Prof. Dr. iur. Andreas Luckey		
Course contents:	Provision of basic knowledge in labour law		
Prerequisites:	Basic knowledge of national civil law is advantageous		
Course objectives expressed in learning outcomes and competences:	<p>After having successfully completed the course, the students should</p> <ul style="list-style-type: none"> • know the principles of individual and collective national labour law, • be able to apply the law in the position of employer or employee. 		
Language of instruction:	German		
Teaching methods:	Lecture supported by lecture hand-outs		
Assessment methods:	<input checked="" type="checkbox"/> Written exam <input type="checkbox"/> Written assignment <input type="checkbox"/> Oral exam	<input type="checkbox"/> Presentation <input type="checkbox"/> Project work <input type="checkbox"/> Practical exercises	<input type="checkbox"/> <input type="checkbox"/>
Recommended reading:	<p>Brox/Rüthers/Henssler, Arbeitsrecht, 17. Auflage 2007</p> <p>Söllner/Waltermann, Arbeitsrecht, 14. Auflage 2007</p> <p>Henssler/Braun, Arbeitsrecht in Europa, 2. Auflage 2007</p> <p>Dietrich (et.al.), Erfurter Kommentar zum Arbeitsrecht, 9. Auflage 2009</p> <p>Küttner, Personalhandbuch 2008, 15. Auflage 2008</p> <p>Hemmer/Wüst, Arbeitsrecht, 11. Auflage 2006</p> <p>Alpmann/Schmidt, Arbeitsrecht, 16. Auflage 2007</p> <p>Alpmann/Schmidt, Kollektives Arbeitsrecht, 2. Auflage 2006</p>		