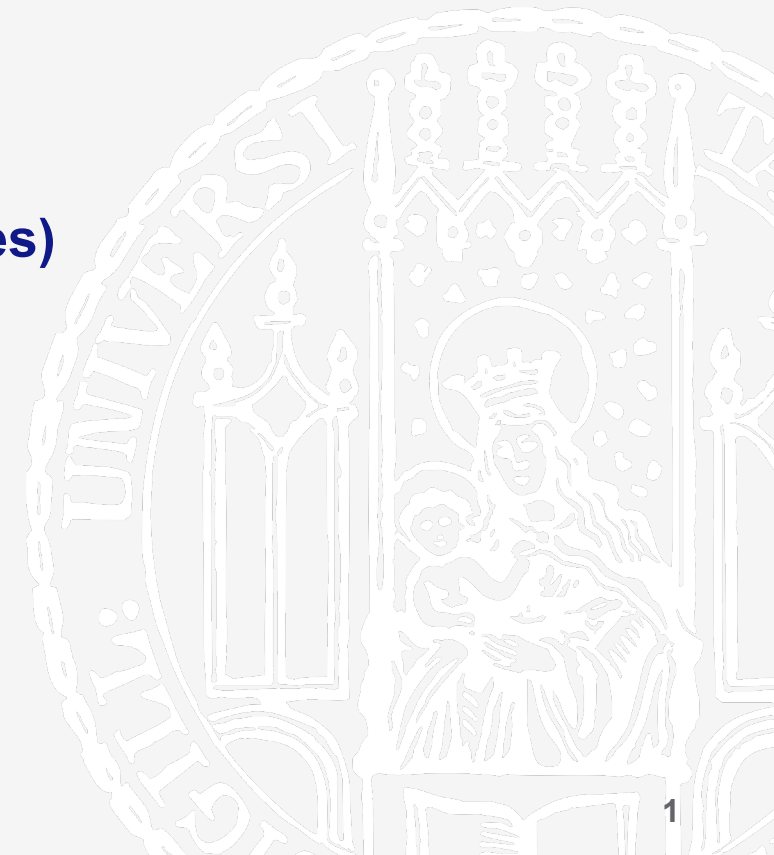# Management and Digital Technologies
(PStO 2018): Start WT 20/21 or before

Course Catalogue (Optional Modules/Electives and Specific courses)

MMT

Updated March 2024

All planned specific courses (optional modules):

for the winter term (WT 23/24) and summer term (ST 2024) in business

and

for the summer term (ST 2024) in informatics can be found in this non-binding semester preview.

Important Note:

When choosing your courses, please remember that you can only take one course in one module. Each module can only be selected once.

Grade improvement: A passed **module examination** can be repeated once at the next regular/possible date (next time this module will be offered): see Guideline MMT!

Rules for selecting optional modules

In total 18 ECTS-Credits must be selected from optional modules in the fields of business administration and informatics.

Select 6 ECTS-Credits from the field "business administration".
Select 6 ECTS-Credits either from the module „Elective Topics in Informatics I" or „Elective Topics in Informatics II" (in the field "informatics").
Select the remaining 6 ETCS-credits either from the field "business administration" or the field "informatics" ("Elective Topics in Informatics I, II" or "Practical Course in Informatics")

Optional Modules
Business Administration:
Accounting and Taxation I-III
Finance and Insurance I-III
Marketing & Strategy I-III
Innovation and Digital Business I-IV
Leadership and Human Resources I-II
Elective Topics in Business Administration (Theory I)
Elective Topics in Business Administration (Theory II)
Advanced Elective Topics in Business Administration (Theory I)
Advanced Elective Topics in Business Administration (Theory II)
Elective Topics in Business Administration (Applied Theory I)
Elective Topics in Business Administration (Applied Theory II)
Advanced Elective Topics in Business Administration (Applied Theory I)
Advanced Elective Topics in Business Administration (Applied Theory II)

Optional Modules
Informatics:
Elective Topics in Informatics I
Elective Topics in Informatics II
Practical Course in Informatics

Business Administration Optional Modules and **Specific Courses** (1/8)

Module: Accounting & Taxation I	L + T	6 ECTS
ST	International Taxation (Schanz/Jochimsen)		
ST	Accounting for M&A Transaction (Sellhorn)		

Module: Accounting & Taxation II / III	S + PS	à 6 ECTS
WT	Empirical Research in Accounting, Auditing and Analysis (Sellhorn)		
WT	Management Control Systems (N.N.)		
WT	Empirical Research in Tax Accounting (Schanz)		
WT	Big Data and Taxes (Schanz)		
WT	Economics of Accounting (Hofmann)		
ST	Performance Measurement & Incentive Systems (Hofmann)		

ST: summer term; WT: winter term, L: lecture; T: tuturial; S: seminar; PS: Proseminar

Business Administration Optional Modules and Specific Courses (2/8)

Module: Finance & Insurance I		L + T	à 6
ST	Insurance Economics (Richter)		
ST	Quantitative Finance (Elsas)		
WT	Behavioral Finance (Glaser)		

Module: Finance & Insurance II / III		S + PS	à 6
ST	Topics in Finance (Elsas)		
ST	Reinsurance (Richter/Liebwein)		
ST	Value-based Management of Financial Institutions (Richter/Wilson)		
WT	Applied Finance (Elsas)		
WT	Asset Liability Management (Richter/Schwarz)		

ST: summer term; WT: winter term, L: lecture; T: tuturial; S: seminar; PS: Proseminar

Business Administration Optional Modules and **Specific Courses** (3/8)

Module: Innovation & Digital Business I / II	L + T	à 6 ECTS
ST	Feeding and Managing the Innovation Pipeline (Spanjol)	
WT	Competitive Strategy (vormals: Strategy and Innovation) (Kretschmer / Claussen)	

ST: summer term; WT: winter term, L: lecture; T: tuturial; S: seminar; PS: Proseminar

Business Administration Optional Modules and **Specific Courses** (4/8)

Module: Innovation & Digital Business III / IV		S + PS	à 6
ST	Advanced Topics on Digitalization, Transformation and Management: Design Thinking (Hess)		
SST	Data Analytics (Spann)		
ST + WT	Innovating for Impact (Spanjol) oder Empirical Research in Innovation Management (Spanjol)		
WT	Advanced Topics on Digitalization, Transformation and Management: Management of Digital Companies and IT Companies (Hess)		
WT	Social Entrepreneurship Lab: Scaling Impact (Spanjol)		
WT	Advanced AI in Businesses and Organizations (Feuerriegel)		
WT	Empirics of Organizations (Kretschmer/Meyer/Wu)		
WT	Frontiers in Strategy Research (Kretschmer/Tuschke)		
ST	AI for Goods (Feuerriegel)		
ST	Methods for AI (Feuerriegel)		
ST	Managerial AI (Feuerriegel)		
ST	AI Tools for Management and Social Science (Feuerriegel)		

ST: summer term; WT: winter term, L: lecture; T: tuturial; S: seminar; PS: Proseminar

Business Administration Optional Modules and **Specific Courses** (5/8)

Module: Leadership & Human Resources I / II		S + PS	à 6
ST	Selected Topics in Organizational Behavior (Högl)		
ST	Global Teamwork: Virtual Collaboration after COVID-19 (Tenzer)		
WT	Leadership and Innovation (Högl)		
WT	Responsible People Management (Weller)		

ST: summer term; WT: winter term, L: lecture; T: tuturial; S: seminar; PS: Proseminar

Business Administration Optional Modules and Specific Courses (6/8)

Module: Marketing & Strategy I	L + T	6
ST Market Research (Schwaiger)		
WT Strategy and Leadership (Tuschke)		

Module: Marketing & Strategy II / III / IV	S + PS	à 6
ST Advanced Empirical Marketing Research (ehemals: Empirische Sozialforschung) (Frieß)		
ST Current Topics in Strategic Management (Tuschke)		
WT Frontiers in Strategy Research (Tuschke)		
WT Marketing Measurement and Modelling (Sarstedt)		
WT Advances in Costumer Relationship Mangement (Frieß)		

ST: summer term; WT: winter term, L: lecture; T: tuturial; S: seminar; PS: Proseminar

Business Administration Optional Modules and Specific Courses (7/8)

Module Elective Topics in Business Administration (Theory) I-II	L + T	à 6
All courses (L+T) of the Modules (type L + T, 6 ECTS Credits) : Accounting and Taxation, Finance and Insurance, Innovation and Digital Business, Leadership and Human Ressource, Marketing and Strategy AND additional specific courses (type L +T, 6 ECTS Credits): these courses can be found on LSF or will be published on the individual homepages of the chairs.		

Advanced Elective Topics in Business Administration (Theory) I-II	S + PS	à 6
All courses (S + PS) of the Modules (type S +PS, 6 ECTS Credits) : Accounting and Taxation, Finance and Insurance, Innovation and Digital Business, Leadership and Human Ressource, Marketing and Strategy AND additional specific courses (type S + PS, 6 ECTS Credits): these courses can be found on LSF or will be published on the individual homepages of the chairs.		

ST: summer term; WT: winter term, L: lecture; T: tuturial; S: seminar; PS: Proseminar

Business Administration Optional Modules and Specific Courses (8/8)

Elective Topics in Business Administration (Applied Theory) I-II	L + T	à 3
	specific courses (type L + T, 3 ECTS Credits): these courses can be found on LSF or will be published on the individual homepages of the chairs.	

Advanced Elective Topics in Business Administration (Applied Theory) I-II	S + PS	à 3
	specific courses (type S + PS, 3 ECTS Credits): these courses can be found on LSF or will be published on the individual homepages of the chairs.	

ST: summer term; WT: winter term, L: lecture; T: tuturial; S: seminar; PS: Proseminar

Informatics Optional Modules and Specific Courses (1/2)

Elective Topics in Informatics I/II (type: L + T)	ST	6 ECTS C.
• Advanced Topics in Parallel Computing, Fürlinger • Einführung in Quantencomputing, Kranzlmüller, Guggemos • Advanced Analytics and Machine Learning, Kranzlmüller, Luckow • Natural Computing, Gabor • Quantum Applications, Bernabé-Moreno • Artificial Intelligence for Games, Schubert • Machine Learning, Tresp • Software Verification, Beyer • Software Testing, Jakobs • Methods in Software Engineering, Ernst • Science and Practice in Software Engineering, Beyer • E-Assessment and Learning Analytics, Strickroth • Interactive Theorem Proving, Blanchette • Practical Machine Learning, Mayer • Preference Learning and Ranking, Hüllermeier • Generative AI and Visual Synthesis, Ommer		

Select 6 ECTS-Credits from the field "business administration".
Select 6 ECTS-Credits either from the module „Elective Topics in Informatics I" or „Elective Topics in Informatics II" (in the field "informatics").

Select the remaining 6 ETCS-credits either from the field "business administration" or the field "informatics" ("Elective Topics in Informatics I, II" or "Practical Course in Informatics")

ST: summer term; WT: winter term, L: lecture; T: tuturial

Informatics Optional Modules and Specific Courses (2/2)

Practical Course in Informatics (Type: practical course)	ST	6 ECTS C.
- Praktikum IT-Sicherheit, Kranzlmüller - Praktikum Netz- und Storage Virtualisierung, Kranzlmüller - Praktikum Evaluierung moderner HPC-Architekturen und -Beschleuniger, Kranzlmüller, Fürlinger - Praktikum Virtual Reality, Kranzlmüller - Praktikum Autonome Syteme, Linnhoff-Popien - Praktikum Quantum Computing Programmierung, Linnhoff-Popien - Affective Computing - Emphatic AI, Maier - Praktikum Deep Clustering, Seidl - Praktikum Process Mining, Seidl, Marques Tavares - Praktikum Connecting Language to Vision, Seidl - Praktikum Reinforcement Learning, Tokic - Praktikum Software-Engineering für Fortgeschrittene, Beyer - Praktikum Binary Analysis with Artificial Intelligence, Kinder - Praktikum Cryptography, Blanchette, Kondylidou - Fortgeschrittenen-Praktikum, Zimmer - Praktikum Usable Security, Alt - Praktikum Augmented Reality, Mayer - Praktikum Intelligent Interactive Systems, Mayer - Praktikum "Game Development", Pirker - Designworkshop 2, Wiethoff - Praktikum Sketching with Hardware, Feger - Praktikum VR Programmierung Unity, Schmidt - Toolbox for Uncertainty Quantification in Machine Learning, Hüllermeier - Praktikum Image & Video Synthesis, Ommer - Praktikum Visual Representation Learning, Ommer		

Select 6 ECTS-Credits from the field "business administration".
Select 6 ECTS-Credits either from the module „Elective Topics in Informatics I" or „Elective Topics in Informatics II" (in the field "informatics").

Select the remaining 6 ETCS-credits either from the field "business administration" or the field "informatics" ("Elective Topics in Informatics I, II" or "Practical Course in Informatics")

Disclaimer

All information in this document has been carefully researched and compiled, nevertheless changes and errors are possible. Therefore, no legal claim can be derived from this document. Only the respective examination and study regulation is legally binding.

Status of information: March 2024

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Questions?
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