



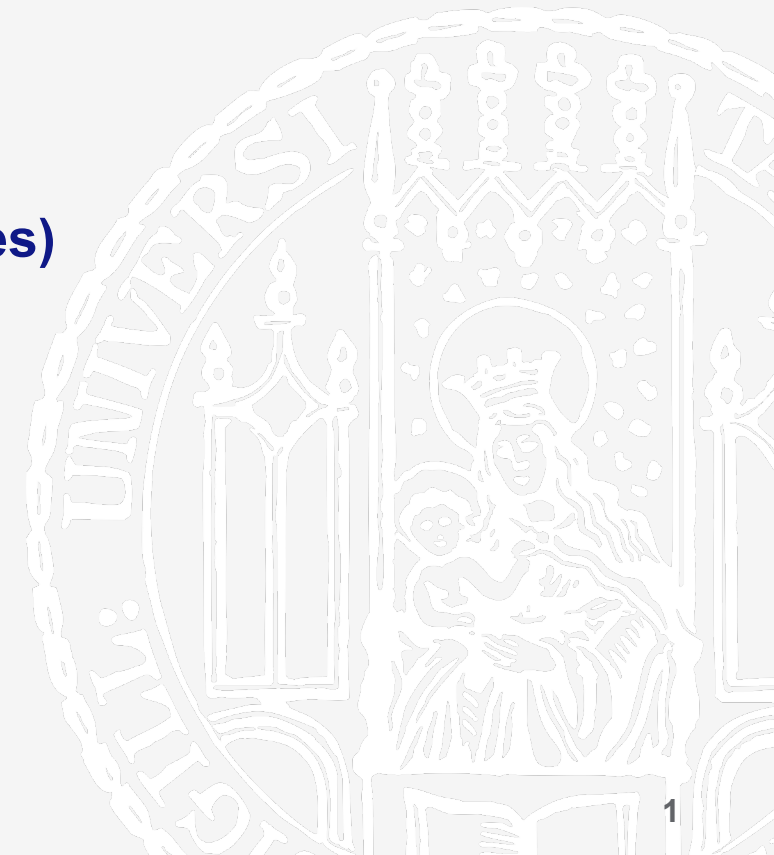
MMT

# Management and Digital Technologies (PStO 2021): Start WT 21/22 or later

Course Catalogue (Optional Modules/Electives and Specific courses)

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Updated March 2024





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### **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.

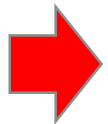
Grade improvement: A passed **module examination** can be repeated once at the next regular/possible date (next time this module will be offered): see Guideline MMT!

## Rules for selecting optional modules

In total **24 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 12 ECTS-Credits from the field “informatics”: type lecture + tutorial or type practical course**
- **Select the remaining 6 ECTS-credits either from the field “business administration” or the field “informatics”.**

**Important: the max number of Practical Courses in Informatics is two!**



### 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  
 Elective Topics in informatics III  
 Practical Course in Informatics I  
 Practical Course in Informatics II

## 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)		

## 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)		



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## 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)		

## 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)		

## 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)		



## 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 Customer Relationship Management (Frieß)		

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

Module Elective Topics in Business Administration (Theory) I-II	L + T	à 6
<p>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  <b>AND</b>            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.</p>		
Advanced Elective Topics in Business Administration (Theory) I-II	S + PS	à 6
<p>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  <b>AND</b>            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.</p>		



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

Elective Topics in Business Administration (Applied Theory) I-II	L + T	à 3
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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
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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.

## Informatics Optional Modules and Specific Courses (1/2)

Elective Topics in Informatics I/II (type: L + T)	ST	6 ECTS C.
<ul style="list-style-type: none"> <li>• Advanced Topics in Parallel Computing, Furlinger</li> <li>• Einführung in Quantencomputing, Kranzlmüller, Guggemos</li> <li>• Advanced Analytics and Machine Learning, Kranzlmüller, Luckow</li> <li>• Natural Computing, Gabor</li> <li>• Quantum Applications, Bernabé-Moreno</li> <li>• Artificial Intelligence for Games, Schubert</li> <li>• Machine Learning, Tresp</li> <li>• Software Verification, Beyer</li> <li>• Software Testing, Jakobs</li> <li>• Methods in Software Engineering, Ernst</li> <li>• Science and Practice in Software Engineering, Beyer</li> <li>• E-Assessment and Learning Analytics, Strickroth</li> <li>• Interactive Theorem Proving, Blanchette</li> <li>• Practical Machine Learning, Mayer</li> <li>• Preference Learning and Ranking, Hüllermeier</li> <li>• Generative AI and Visual Synthesis, Ommer</li> </ul>		

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## Informatics Optional Modules and Specific Courses (2/2)

Practical Course in Informatics I/II (Type: practical course)	ST	6 ECTS C.
<ul style="list-style-type: none"> <li>• Praktikum IT-Sicherheit, Kranzlmüller</li> <li>• Praktikum Netz- und Storage Virtualisierung, Kranzlmüller</li> <li>• Praktikum Evaluierung moderner HPC-Architekturen und -Beschleuniger, Kranzlmüller, Furlinger</li> <li>• Praktikum Virtual Reality, Kranzlmüller</li> <li>• Praktikum Autonome Systeme, Linnhoff-Popien</li> <li>• Praktikum Quantum Computing Programmierung, Linnhoff-Popien</li> <li>• Affective Computing - Emphatic AI, Maier</li> <li>• Praktikum Deep Clustering, Seidl</li> <li>• Praktikum Process Mining, Seidl, Marques Tavares</li> <li>• Praktikum Connecting Language to Vision, Seidl</li> <li>• Praktikum Reinforcement Learning, Tokic</li> <li>• Praktikum Software-Engineering für Fortgeschrittene, Beyer</li> <li>• Praktikum Binary Analysis with Artificial Intelligence, Kinder</li> <li>• Praktikum Cryptography, Blanchette, Kondylidou</li> <li>• Fortgeschrittenen-Praktikum, Zimmer</li> <li>• Praktikum Usable Security, Alt</li> <li>• Praktikum Augmented Reality, Mayer</li> <li>• Praktikum Intelligent Interactive Systems, Mayer</li> <li>• Praktikum "Game Development", Pirker</li> <li>• Designworkshop 2, Wiethoff</li> <li>• Praktikum Sketching with Hardware, Feger</li> <li>• Praktikum VR Programmierung Unity, Schmidt</li> <li>• Toolbox for Uncertainty Quantification in Machine Learning, Hüllermeier</li> <li>• Praktikum Image &amp; Video Synthesis, Ommer</li> <li>• Praktikum Visual Representation Learning, Ommer</li> </ul>		

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## 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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