Management of Global Large IT-Systems in International Companies

Summer

(in German: Management of Global Large IT-Systems in International Companies)

Module-ID: FIN-INF-120315

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
MGLIIC	6	Summer	starting at 1.	1 Semester	english	Master

Link:	LSF
Limited accessability:	
Responsibility:	Gunter Saake
Lecturer:	Karl-Albert Bebber, Wolfgang Stockhausen
Classes:	• Block lecture *Management of Global Large IT-Systems in International Companies* • Block Exercise class *Management of Global Large IT-Systems in International Companies*

Applicability in curriculum:	- M.Sc. INF: Informatik - M.Sc. INGINF: Informatik - M.Sc. WIF: Wirtschaftsinformatik - M.Sc. DKE: Applied Data Science - M.Sc. DE: Human Factors - M.Sc. DE: Methoden der Informatik - M.Sc. DE: Fachliche Spezialisierung - M.Sc. VC: Computer Science

Intended learning outcomes:
Students are able to …

- understand the fundamentals of IT strategy and analyze its significance for businesses.
- describe methods for developing and implementing IT strategies.
- apply project management methodologies such as PRINCE2 and agile approaches in IT projects.
- understand multi-project management, program management and portfolio management in corporate environments.
- apply change management models such as ADKAR to manage organizational transformations.
- understand the importance of IT governance and compliance for corporate structures and regulatory requirements.
- describe stakeholder management and intercultural communication in global IT projects.
- identify risks and quality requirements in IT projects and develop appropriate control measures.
- explain data governance concepts and assess their significance for data protection, IT security, and regulatory compliance.
- describe the role of data quality, metadata management and master data management (MDM) in corporate IT.
- model, analyze, and optimize IT-supported business processes, particularly through the use of BPMN.
- understand Identity & Access Management (IAM) and evaluate its implementation in enterprises.
- explain security aspects such as authentication, authorization, Single Sign-On (SSO), and two-factor authentication (2FA), as well as best practices in enterprise security management.
- assess IT security strategies and cybersecurity measures, including risk mitigation techniques.
- understand the importance of reference data management and data integration for corporate processes.
- evaluate agile methodologies such as Scrum in IT transformation projects and compare them with traditional waterfall approaches.
- understand risk and quality management processes in IT environments, including testing methodologies, compliance frameworks, and risk mitigation strategies.
- analyze and apply IT service delivery models in Shared Service Centers.

Content:

- Business Process Management and Modeling
- Process Analysis and Optimization/Standardization
- Identity and Access Management (IAM)
- Quality and Risk Management in IT Operations
- Testing and Software Quality Assurance, including Documentation
- Agile vs. Waterfall Project Management in IT
- IT Service Delivery and Shared Service Center Management
- Project and Program Management (PRINCE2 i. a.)
- Stakeholder Management in IT Projects
- Change Management (ADKAR, Organizational and Employee Transformation)
- Data Governance (Strategy, Policies, Processes and Data Quality)
- IT Strategy – Business as a Driver for IT (Balanced Scorecard)
- IT Investments and Business Decision-Making
- Insights from Ongoing IT Projects by Public Accountants and IT Project Leads from Major International Companies

Workload:
56 contact hours + 124 h self study

Pre-examination requirements:	Type of examination:	Teaching method / lecture hours per week (SWS):
Requirements for exam admission will be announced in the first lecture	Written Exam (120 min)	• 2 SWS Blockvorlesung • 2 SWS Blockübung

Prerequisites according to examination regulations:	Recommended prerequisites:
keine	Knowledge about IT-Systems and Business administration

Media:	Literature:

Comments:

Revision #1
Created 2026-10-20 17:13:49 UTC by Fakultät für Informatik
Updated 2026-10-20 17:13:49 UTC by Fakultät für Informatik