

Digital Finance and Controlling

Module Code: DLBFMDFC_E

Module Type see curriculum	Admission Requirements none	Study Level BA	CP 5	Student Workload 150 h
--------------------------------------	---------------------------------------	--------------------------	----------------	----------------------------------

Semester / Term see curriculum	Duration Minimum 1 semester	Regularly offered in WiSe/SoSe	Language of Instruction and Examination English
--	--	--	---

Module Coordinator

N.N. (Digital Finance and Controlling)

Contributing Courses to Module

- Digital Finance and Controlling (DLBFMDFC01_E)

Module Exam Type

Module Exam

Study Format: Distance Learning
Written Assessment: Written Assignment

Split Exam

Weight of Module

see curriculum

Module Contents

- Fundamentals and Basic Concepts of Digitization
- Digitization of Processes in Finance & Controlling
- Requirements of Digitization for IT Systems in Controlling
- Effects of Digitization on Organization, Roles and Competence Profiles in Controlling
- Conceptual Principles for the Development of Digitization Measures
- Controlling of Digital Business Models

Learning Outcomes**Digital Finance and Controlling**

On successful completion, students will be able to

- identify opportunities and potentials of digitization in finance & controlling.
- understand relevant digitization technologies and their possible applications.
- assess efficiency potentials through digitization of core processes.
- understand essential requirements of digitization on IT systems.
- identify the effects of digital transformation on the organization, tasks, and competence profiles in finance & controlling.
- determine the degree of digitization in controlling in order to develop a digitization strategy.
- understand the special features of controlling digital business models.

Links to other Modules within the Study Program

This module is similar to other modules in the field of Finance & Tax Accounting

Links to other Study Programs of the University

All Bachelor Programs in the Business & Management field

Digital Finance and Controlling

Course Code: DLBFMDFC01_E

Study Level	Language of Instruction and Examination	Contact Hours	CP	Admission Requirements
BA	English		5	none

Course Description

Digitization is currently leading to disruptive changes in industries, sectors and companies. Traditional business models (e.g., in retail banking or hotel bookings) are increasingly being replaced by digital business models (i.e., fintechs or platforms such as booking.com). Companies with traditional business models are digitizing their operational processes (e.g., in production or sales) in order to remain competitive. Support functions such as HR or controlling are also taking advantage of the opportunities offered by digital transformation in order to optimize the efficiency of their respective core processes. In this respect, controlling is not only dealing with the management of digitization initiatives in the operational areas of the company, it must also evaluate what opportunities and efficiency potential digitization offers in finance & controlling itself. This course provides students with an overview of the conceptual principles and current developments of digitization in finance & controlling. Students are introduced to the relevant digitization technologies and will understand how digitization affects processes, systems, organizations and the necessary competence profiles of a company's employees. Various practical examples will be used to show how companies successfully use tools and technologies to improve the efficiency of controlling processes. Moreover, students will learn how the company's current level of digitization is determined by using a maturity model in order to develop a digitization strategy. Finally, this course presents the special features of controlling in digital business models.

Course Outcomes

On successful completion, students will be able to

- identify opportunities and potentials of digitization in finance & controlling.
- understand relevant digitization technologies and their possible applications.
- assess efficiency potentials through digitization of core processes.
- understand essential requirements of digitization on IT systems.
- identify the effects of digital transformation on the organization, tasks, and competence profiles in finance & controlling.
- determine the degree of digitization in controlling in order to develop a digitization strategy.
- understand the special features of controlling digital business models.

Contents

1. Fundamentals and Basic Concepts of Digitization
 - 1.1 Context of Digitization in Controlling: VUCA and Industry 4.0
 - 1.2 Relevant Digitization Technologies at a Glance
 - 1.3 Effects of Digitization on Controlling
 - 1.4 Status Quo of Digitization in Finance & Controlling in Practice
2. Digitization of Processes in Finance & Controlling
 - 2.1 Effects, Instruments and Potential Benefits of Digitization
 - 2.2 Finance RPA as an Approach to Process Optimization in Reporting and Financial Processes
 - 2.3 Predictive Analytics in the Context of Planning and Forecasting
3. Requirements of Digitization for IT Systems in Controlling
 - 3.1 IT and Data Management as the Basis for Digitization
 - 3.2 ERP Systems and Their Importance for Digitization
 - 3.3 Business Intelligence Solutions for Controlling
4. Effects of Digitization on Organization, Roles and Competence Profiles in Controlling
 - 4.1 Developments in the Controlling Organization in the Context of Digitization
 - 4.2 Impact of Digitization on Roles and Tasks in Controlling
 - 4.3 Changes in the Competence Profile: Digital and Data Literacy as Key Competencies
5. Conceptual Principles for the Development of Digitization Measures
 - 5.1 Determining the Degree of Digitization by Using Maturity Models
 - 5.2 Process Models for Implementing Digital Transformation
 - 5.3 Approaches for the Evaluating Digitalized Finance & Controlling Processes
6. Controlling of Digital Business Models
 - 6.1 Special Features of Controlling Digital Business Models
 - 6.2 Practical Examples: Successful Digital Business Models

Literature**Compulsory Reading****Further Reading**

- Chong, S. & Rahman, A. & Narayan A. K. (2022). Guest Editorial: Accounting in Transition: Influence of Technology, Sustainability and Diversity. *Pacific Accounting Review* 34(4), 517–525.
- de Bruin T. & Rosemann M. & Freeze R. & Kulkarni U. (2005). Understanding the Main Phases of Developing a Maturity Assessment Model. In *ACIS 2005 Proceedings Sydney, Australia*.
- Drury, C. (2022). *Management Accounting for Business* (8th ed.). Cengage. Chapter 16.
- Hofmann, P. & Samp, C. & Urbach, N. (2019). Robotic Process Automation. *Electronic Markets* 30, 99 –106.
- Möller, K. & Schäffer, U. & Verbeeten, F. (2020). Digitalization in Management Accounting and Control: An Editorial. *Journal of Management Control* 31, 1–8.
- Rummel, F. & Hüsigg, S & Steinhauser, S. (2021). Two Archetypes of Business Model Innovation Processes for Manufacturing Firms in the Context of Digital Transformation. *R&D Management* 52(4), 685–703.
- Wirtz, B. W. (2019). *Digital Business Models*. Springer Nature.

Study Format Distance Learning

Study Format Distance Learning	Course Type Online Lecture
--	--------------------------------------

Information about the examination	
Examination Admission Requirements	BOLK: yes Course Evaluation: no
Type of Exam	Written Assessment: Written Assignment

Student Workload					
Self Study 110 h	Contact Hours 0 h	Tutorial 20 h	Self Test 20 h	Independent Study 0 h	Hours Total 150 h

Instructional Methods		
<input type="checkbox"/> Learning Sprints®	<input type="checkbox"/> Review Book	<input type="checkbox"/> Sprint
<input checked="" type="checkbox"/> Course Book	<input type="checkbox"/> Creative Lab	<input type="checkbox"/> Interactive Online Lecture
<input type="checkbox"/> Vodcast	<input checked="" type="checkbox"/> Guideline	
<input checked="" type="checkbox"/> Shortcast	<input checked="" type="checkbox"/> Live Tutorium/Course Feed	
<input checked="" type="checkbox"/> Audio	<input type="checkbox"/> Reader	
<input type="checkbox"/> Exam Template	<input checked="" type="checkbox"/> Slides	