

Product Costing and Advanced Planning

Module code:	Workload:	Semester:
MPCP	150 h	(WiSe) Sem.
Credits:	Duration:	Frequency:
5	1 Sem.	Each winter term
Independent study:	Class size:	Contact hours:
90 h		4 SWS / 60 h
Module-No.:	Exam.-No.:	Percentage of final score:
7959	9999	PEM: 4,16; HI: 5,55
Language of instruction:	Vers. BPO/MPO min.:	
English	MPO-2017	621

Type of course:

Seminaristic lecture: 2 hours per week / 30 h Practical part, with computers 30 h, 4 hours biweekly

Learning outcomes/Competencies:

Students have basic knowledge and know basic terms in the major subject areas of business studies. They can arrange the framework of operational activities (objectives and organization of companies). Furthermore they know the different functions and tasks of producing companies in the field of the financial sector (investment decisions and financing instruments), information management (accounting and controlling) and business management (strategic management).

In the course, you will learn as well about the key features of Teamcenter Product Cost Management and about the structure and components of a calculation. You calculate costs for a variety of products offering you an overview of different aspects of the estimation process. Specifically, you create estimates for several types of parts, import a bill of

materials for an assembly, change parameters within the assembly and learn to adapt the user interface to suit your needs.

Content/subject aim:

Part 1 Industrial Costing:

- Introduction to Business Studies:
 - Environment of the company, the company's success
 - Basic operation functions of companies and performance processes
 - Management and business management (goals, tasks, requirements, strategies, organization)
- Introduction to cost and management accounting:
 - Type of cost accounting, cost center accounting, cost object accounting
 - Income statement
 - Cost management instruments
- Introduction to Controlling:
 - Requirements, tasks and challenges of controllers today and in the future
 - Cooperation between controllers and managers
 - Growth, development and profit as guidelines of doing business
 - Investment decisions
 - Controlling methods (planning and budgeting, break-even analysis, variance analysis, key performance indicators and performance measurement systems)

Part 2 Product Cost Calculation:

- Introduction to Product Costing
- Product Cost Management Interface
- Searching for parts, calculations, and data
- Introduction to master data
- Creating an initial calculation
- Modifying calculation settings
- Working with projects
- Importing a BOM from an Excel file
- Performing a mass data change

- Calculating an injection molding part
- Calculating a stamping part
- Calculating a turning part

Teaching methods:

Lecture, project work, case studies, group work, discussions with computer, charts, moderation material

Prerequisites for participation:

none

Assessment methods / First Examiner / Second Examiner:

Written exam or Oral examination / Prof. Gamber / Prof. Tackenberg

Requirements to get the credit points:

Passed examination of this part of the course

This module is used in the following degree program: (in semester-no.)

(WiSe) M.Sc. Production Engineering and Management (WP)

(WiSe) M.Sc. Wirtschaftsingenieur der Holzindustrie (WP)

Weight of grade for final grade:

5/120: M.Sc. Production Engineering and Management

5/90: M.Sc. Wirtschaftsingenieur der Holzindustrie

Responsibility for module / Teacher of the submodule:

Prof. Dr.-Ing. Thilo Gamber

Other information / literature:

- Charles, T. Horngren, Srikant M. Datar, Cost Accounting: A Managerial Emphasis .15th edition, Pearson Education 2014
- Kaplan, R. S., Atkinson, A. A., Advanced Management Accounting. Pearson New International 2014
- Marshall, A., Principles of Economics. Authorhouse 2012
- Siemens Teamcenter Product Costing - Product Costing Basics "Official Siemens

Teaching Material"