

OPTIMIZATION OF PRODUCT DEVELOPMENT: COST-EFFICIENT R&D

LEVEL OF COURSE UNIT

Bachelor

LEARNING OUTCOMES OF COURSE UNIT

Students are able to:

- identify the process and tools for cost management in product development.
- use specific targets as a starting point to select and employ tools from production for cost management / cost optimization.

COURSE CONTENTS

- Cost perspective (product costs vs. lifecycle costs)
- Cost responsibility / cost influence in production
- Process for cost management in product development
- Tools for cost management in production
- Influences and advantages of measures to reduce costs in production

LITERATURE RECOMMENDATIONS

- Ehrlenspiel et al. (2014): Kostengünstig Entwickeln und Konstruieren: Kostenmanagement bei der integrierten Produktentwicklung, 7. Aufl., Springer Vieweg Wiesbaden
- VDI-Gesellschaft Produkt- und Prozessgestaltung (2011): Wertanalyse - das Tool im Value Management, 6. Aufl., Springer Verlag Berlin
- Bokranz, Landau (2012): Handbuch Industrial Engineering, 2. Aufl., Schäffer –Poeschl, Stuttgart

TEACHING AND LEARNING METHODS

Lecture

EVALUATION METHODS CRITERIA

Elaboration, presentation

LANGUAGE OF INSTRUCTION

English

NUMBER OF ECTS CREDITS ALLOCATED

1