



Universität Ulm

Master of Science Physics (PO 2019)

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## Successful Project Management - Fundamentals

**Code** 8812875234

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**ECTS credits** 4

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**Attendance time** 3

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**Language of instruction** English

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**Duration** 1

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**Cycle** each Winter Semester

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**Coordinator** Dean of Physics Studies

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**Instructor(s)** Dr. Volker Kraus

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**Allocation of study programmes** Physics M.Sc., elective module  
Wirtschaftsphysik M.Sc., elective module

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**Recommended prerequisites** None

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**Learning objectives** Students who have successfully completed this module

- are familiar with the basics of operational project management.
- can independently plan, realize, monitor and control complex interdisciplinary tasks.
- are familiar with the various organizational forms of project management, the coordination of work in project teams, and the requirements and tasks of a project manager.
- are proficient in the basic planning techniques of project management
- are able to use different methods for planning, controlling and monitoring processes based on network planning technology.
- know the challenges of project management by means of practical examples.

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**Syllabus**

1. Motivation, concept formation and basic elements of project management
2. Project environment within an organization

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3. The role of the project manager in the company
4. Stakeholder Management
5. Integration Management
6. Content and scope management
7. Scheduling Management
8. Cost Management
9. Quality Management
10. Personnel or resource management
11. Communication Management
12. Risk Management
13. Procurement Management

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**Literature**                      A Guide to the Project Management Body of Knowledge, sixth Edition, 2017.

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**Teaching and learning methods**                      Lecture (2 hours per week)  
Seminar (1 hour per week)

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**Workload**                                      30 hours lecture  
15 hours seminar  
75 hours self-study  
total: 120 hours

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**Assessment**                                      The module examination consists of a graded written or oral examination, depending on the number of participants.

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**Grading procedure**                                      The module examination consists of a graded written or oral examination, depending on the number of participants.

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**Basis for**    Planning and realization of a project

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