



e-Learning course

“Project management in GI projects”

Syllabus

Feb 20, 2007

Contact

Teacher: Dr. Christoph Brox, broxc@uni-muenster.de

Tutor (technical issues): Sören Dupke, soeren.dupke@gmx.de

Goal

Project management is a required key qualification for the future professional careers of GI students in research and industry. Therefore, the course will mediate in the first theoretical know-how in

- acquisition,
- planning,
- budgeting,
- controlling,
- documentation, and
- evaluation

of projects. Then, the students will learn how to apply the theoretical know-how in a simulated project environment (development of a tourist information system) in the second part of the course.

Contents

Part 1: Theory (50 hours of students' workload) – preliminary teaching materials: see

<http://geoinf.uni-muenster.de/PM/>

Module 1: Introduction

- Synchronous session
- Motivation for learning project management
- Projects and project management
- Project acquisition

Module 2: Scoping the project

- Project mission and objectives
- User requirements analysis
- Requirements specification and system specification

Module 3: Project planning

- Work Breakdown Structure

- Estimation of resources (duration, personnel, other resources, cost)
- Project Network Diagram
- Finalizing schedule, cost, and personnel

Module 4: Controlling and Communication

- Project meetings
- Project teams
- Monitoring/controlling

Module 5: Closing out a project

- Addressing customers
- Customer relationship management
- Internal evaluation
- Online exam

Part 2: Application on simulated project: Development of a tourist information system (40 hours of students' workload)

Module 6: Project overview statement

Module 7: Requirements specification and system specification

Module 8: Work Breakdown Structure

Module 9: Project schedule and budget

Part 3: Additional exercise (only for ISEGI-UNL students, 15 hours of students' workload)

Module 10

- To be defined

Style

- Didactical concept, e.g., problem-oriented approach, theory and case study
- Asynchronous part: what students do on their own, e.g., reading textbook, reading online materials, self-tests, homework, group work
- 5 synchronous sessions
- Email contact to teachers
- Student-student interaction via BlackBoard forum
- Online exam (end of part I)
- Report (end of part II)
- Extended report (additional exercise only for ISEGI students)
- Students' workload:
 - UniBw Munich students: 90 hours, equivalent to 3 ECTS credit points
 - ISEGI-UNL students: 105 hours, equivalent to 3.5 ECTS credit points.

Participants

Students:

- 15 students from ISEGI-UNL
- 15 students from UniBw Munich

Required or recommended level and previous know-how of the students: Advanced Bachelor-level or Master-level; basic know-how in GI required.

Organization

- Start and end of the course: April 2 – May 31, 2007
- Dates of the synchronous sessions
 - -Monday, April 2, 19.00 - 20.00 h (German time), 18.00 19.00 h (Portuguese time)
 - **Thursday, May 3, 19.00 - 21.00 h** (German time), **18.00 20.00 h** (Portuguese time)
!!! (online exam + synchronous session)
 - Thursday, May 10, 19.00 - 20.00 h (German time), 18.00 19.00 h (Portuguese time)
 - Monday, May 21, 19.00 - 20.00 h (German time), 18.00 19.00 h (Portuguese time)
 - Thursday, May 31, 19.00 - 20.00 h (German time), 18.00 19.00 h (Portuguese time)
- final reports by students (including extra tasks for ISEGI students): due June 18
- Number of participants: 30
- Course number at the University of Münster: available in February 2007
- Student online activity will be tracked by the platform, completion of self-tests and online questions will be used to assess the progress of the course.

Successful participation

- Attend synchronous sessions
- Do self-tests (at the end of each module of part I)
- Do homework (at the end of each module of part II)
- Pass (intermediate) exam at the end of part I
- Write report (end of part II)
- Extra task for ISEGI-UNL students, 0,5 credit points

Course preparation

- Enrollment at local teachers (Lisbon, Munich)
- Access to e-Learning platform
- Access to reading materials, which are not provided online (textbook)

Literature

Required readings: Robert K. Wyzocki (with Rudd McGary), 2003: Effective Project Management (third edition), Wiley Publishing

- Introduction
- Part one (chapters 1-12)

Further required readings: see online materials.