



# MANAGING SOFTWARE DEVELOPMENT

4 WEEK ONLINE CERTIFICATE COURSE

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COURSE FEE – CHF 490

START DATE: **MAY 4.2023**

REGISTER NOW: [info@alss-edu.ch](mailto:info@alss-edu.ch)

# Course Introduction

The course provides an introduction to software development management in both technical and administrative perspectives. The course concepts such as extended software development lifecycle which includes staffing, planning, development, and delivery of products, are useful for both product owners, customers, or anybody who has a startup idea willing to work with software teams. The two hour sessions will be held online on the announced dates.

The course is designed and delivered by an international university instructor of Computer Engineering. It is being offered as an open course and can be attended by anyone who is, or aspires to get, involved in the industry of software development, or willing to understand the basic technical details in order to better communicate their ideas to developers.

## Course Outcomes

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Upon completion of this course, you should have an understanding of software development and support management concepts such as:

- Recruitment and team building
- Software engineering
- Software development lifecycle
- Project plan
- Development
- Quality assurance
- Staffing
- Support
- Startup headaches

## Accreditation and certification

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The Academy of Leadership Sciences Switzerland (ALSS) is an international education institution that offers continuing education, further education, and post graduate advanced education courses, workshops and programs focusing on advanced studies in Leadership and Management. The ALSS also offers short courses that are not credit-bearing, and do not lead to formal qualifications. All attendees who attend all presentations of the *Managing Software Development* will be awarded certificates of successful attendance by the ALSS.

# Course Subjects

- Recruitment, team members: Designers, architects, developers, testers
- Support engineers and technicians
- Software engineering
- Software development lifecycle
- Requirements analysis
- Iterative design and improvement
- Project plan, deadlines, and critical path
- Development and agile approach
- Issue tracking
- Time plan and cost analysis
- Configuration management
- Continuous delivery and updates
- Continuous integration,
- Automated testing and build of modules, quality assurance
- Staffing
- Conveying feedback and introvert module owners
- Remote team management, cultures and timezones
- Overtime and stress management
- Support, 1st level, and 2nd level
- Startups and incubating projects

# Course Structure

Week

1

## Meeting the Team and the Process (2 hours)

Recruitment, team members: Designers, architects, developers, testers  
Support engineers and technicians  
Software engineering  
Software development lifecycle  
Requirements analysis

**Week 2**

**Project Design and Tracking (2 hours)**  
 Iterative design and improvement  
 Project plan, deadlines, and critical path  
 Development and agile approach  
 Issue tracking

**Week 3**

**Cost and Quality Management (2 hours)**  
 Time plan and cost analysis  
 Configuration management  
 Continuous delivery and updates  
 Continuous integration,  
 Automated testing and build of modules, quality assurance

**Week 4**

**Team-building and Feedback (2 hours)**  
 Staffing  
 Conveying feedback and introvert module owners  
 Remote team management, cultures and timezones  
 Overtime and stress management  
 Support, 1st level, and 2nd level  
 Startups and incubating projects

**Duration of the Course:**  
 4 weeks (**every Thursday two hours webinar at 6pm CET Time**)

**Language**  
 English

**Start Date**  
**May 4.2023**

**Study Options**  
 100 % online per Zoom or other

**Admission Requirements**  
 Anyone who is, or aspires to get, involved in the industry of software development or with a startup idea can enroll for this course.  
 Internet access and an email address are required.

**Tutorial fees for the whole course**  
 CHF 490 to be paid at least one week before the course starts.

# Course Leader



**Dr. Murat Özyurt, PhD**

Dr. Murat Özyurt is a computer engineering instructor. He has received his BS degree in computer engineering in 2005, MS degree in software engineering in 2008, and PhD degree in computer engineering in 2019 from Bogazici University. He has worked as a software engineer, architect, team lead in commercial projects as well as R&D project. He is also running his own companies for consultancy and development of software projects. Dr. Özyurt has been working with ALSS since 2023 on IT courses. He has also been lecturing in Bogazici University Computer Engineering Department since 2020 on Introduction to Programming Courses. Dr. Özyurt has assisted similar courses since 2016 with a specialized platform Teaching.Codes, which is designed to address lectures and automated evaluation and grading of student submissions in programming courses. Has has been generating programming courses contents and examples for Java and Python programming languages. His professional experience is based mostly on computer networks, telecommunications infrastructure planning projects, web applications, 3D applications, mobile games, etc. More detailed information about Dr. Özyurt can be found in <https://linkedin.com/in/muratozyurt>. Similarly his recent publications can be accessed through <https://www.researchgate.net/profile/Murat-Ozyurt-2>.