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UNIVERSITÄT SIEGEN • Fakultät IV / WBS • 57076 Siegen

Software Engineering

Lecture and Exercise

Winter Semester 2016/17

Prof. Dr.-Ing. Madjid Fathi
Dr.-Ing. Fazel Ansari
M.Sc. Sisay Chala**Begin: October 27, 2016****Time: Thursdays 14:00 – 18:00****Room: H-C 6321****Language: English****Topics:**

SW Development Lifecycles, SW Project Management, SW Requirements Engineering, SW and Database Design, Programming, SW Testing & Quality Control

**Contents:**

What makes a software project succeed? It takes more than a good idea and a team of talented programmers. A project manager needs to know how to guide the team through the entire software project. **Software Project Management (SWPM)** is, therefore, the art and science of planning and leading software projects. It requires knowledge of the entire software development lifecycle from feasibility and requirements analysis to testing of the end product.

The goal of this course is to train Mechatronics and Engineering students for applying SWPM lessons in their future career. The course consists of lectures with written exam.

Literature:

- Software Project Management in a Changing World, G. Ruhe & C. Wohlin (Eds.), Springer, 2014.
- Software Engineering Design: Theory and Practice, C.E. Otero, CRC Press, 2012.
- Agile Project Management, J. Highsmith, 2nd Ed., Addison-Wesley, 2010.
- Applied Software Project Management, A. Stellman & J. Greene, O'REILLY, 2005.
- Software Project Management: A Unified Framework, W. Royce, Addison-Wesley, 1998.