Linnæus University

Course syllabus

Faculty Board of Science and Engineering
School of Engineering

2SE014 Kostnadsanalys, 7,5 högskolepoäng
Cost Analysis, 7.5 credits

Main field of study
Total Quality Maintenance

Subject Group
Industrial Engineering and Management

Level of classification
First Level

Progression
G2F

Date of Ratification
Approved by the Board of the School of Engineering 2009-11-16

Revised 2010-11-18. Some changes in the prerequisites and the required reading.

The course syllabus is valid from autumn semester 2011

Prerequisites
Basic eligibility and Mathematics/Mathematical Statistics comparable to Computational Methods for Technical Applications (1MA112), 15 Credits, Business Driven Quality Maintenance, 7,5 Credits and additional 37,5 Credits in the subject Total Quality Maintenance.

Expected learning outcomes
After completing the course the student is expected to be able to

- account for definitions, concepts, methods and tools of LCC/LCP in an industrial context, as well as their

applications.

- exemplify application areas for definitions, concepts, methods and tools of LCC/LCP.
- understand how LCC/LCP can be used as decision making tool/method with regards (in complement) to technical/engineering performance.

Content
The course comprises the following elements:

- Introduction to the "time value of money"

- LCC components
- LCC models
- LCC as a decision making tool
- LCC applications in industry

Type of Instruction
The teaching consists of lectures, group work, seminars, assignments and a case study.

Examination
The course is assessed with the grades U,3,4 or 5.
On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

The examination is based on submitted reports and oral or written presentation of compulsory assignments.

Course Evaluation
A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Other
Some elements of the course may entail costs defrayed by the course participant.

The course language is English if international students attend the course.

Required Reading and Additional Study Material
Required reading
William G. Sullivan, Elin M. Wicks and James T. Luxhoj, *Engineering economy*, Pearson Education, latest edition. 450 pages.

Current scientific articles in addition

Recommended literature
Hagberg, Leo & Henriksson, Tomas (1996). *Profitable maintenance: 8 steps to assured production. 4, The LCP methodology*. Stockholm: Mentor Communications

Benjamin S. Blanchard, *Logistics engineering and management*, Prentice hall, latest edition. 526 pages.