



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

1SE601 Kostnadsanalys med hjälp av LCC, 7,5 högskolepoäng
Cost analysis utilising LCC, 7.5 credits

Main field of study
Total Quality Maintenance

Subject Group
Industrial Engineering and Management

Level of classification
First Level

Progression
G1F

Date of Ratification
Approved by the Board of the School of Engineering 2010-03-03

The course syllabus is valid from autumn semester 2010

Prerequisites
Basic eligibility as well as knowledge corresponding to 7.5 hec in Economics (JEA904) and 7.5 hec in Operations Management (SE9001) or the equivalent.

Expected learning outcomes

After completing the course the student is expected to be able to

- account for definitions, concepts, methods and tools of LCC in an industrial context, as well as their applications.
- use tools and methods within LCC.
- exemplify application areas for concepts, methods and tools of LCC.
- understand how LCC 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

Time of Instruction

Type of instruction

Distance learning through a learning management environment, Internet and seminar meetings.

Teaching consists of distance education by individual studies, group exercises and jointly meetings with lectures and seminars. Participation in the meetings is mandatory.

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 oral and/or written presentation of compulsory assignments and participation in web-based discussions.

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.

Credit Overlap

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course: Overlaps fully with SE9943 (SEC921) and to about 5 hp with Technical life cycle cost/profit SE9953 (SEC922)

Other

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

The course language could be Swedish or English.

Required Reading and Additional Study Material

Required reading

Choose at least one of following titles:

Benjamin S. Blanchard, *Logistics engineering and management*, Prentice hall, Senaste upplagan. 526 pages.

William G. Sullivan, Elin M. Wicks and James T. Luxhoj, *Engineering economy*, Pearson Education, Senaste upplagan. 450 pages.

Current scientific articles in addition