Linnæus University

Jnr: 2014/3112-3.1.2

Course syllabus

Faculty of Technology
Department of Mechanical Engineering

2MT029 Anläggningsplanering, 7,5 högskolepoäng
Facilities Planning, 7.5 credits

Main field of study
Mechanical Engineering

Subject Group
Mechanical Engineering

Level of classification
First Level

Progression
G2F

Date of Ratification
Approved by Faculty of Technology 2014-10-03
The course syllabus is valid from autumn semester 2015

Prerequisites
60 credits in the subject Mechanical Engineering or Business Administration or similar

Objectives
Through this course, the student will develop the skills and knowledge critical to the successful planning of efficient and
effective facilities. In particular, the students will be able:
1) to gain an understanding and appreciation of the principles
and methodologies relevant to the planning and design of "production oriented" facilities well as the service industries,
2) to develop skills and learn modern analytical techniques useful for solving facilities planning problems.

Content
The course consists of the following elements:

- Strategic facilities planning
- Product, process, and schedule design
- Flow, space and activity relationships
- Personnel requirements
- Material handling systems
- Layout planning models and design algorithms
- Developing alternatives facilities plans.
- Evaluating and selecting the facilities plan.

Type of Instruction

Teaching consists of lectures, group-work, laboratory work, submitted assignments, seminars and case studies (projects).

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.
The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

The students' performance can be evaluated through assignments, small written exam (s), seminars, written reports of project work (case studies), presentation and opposition and written and oral exam of the compulsory work

Course Evaluation

A course evaluation will be carried out and compiled after the course is completed. The compilation will be presented to the current board as well as to the students and filed.

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:The course overlaps about 70% with SEC926 and SE9932. 2MT004 Facilities Planning, 7,5 hec.

Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

Required Reading and Additional Study Material

Required reading
Tompkins J., White J., Bozer Y. & Tanchoco J, *Facilities Planning*, Wiley, latest edition. 600 pages.

Relevant articles