1 Name, Scope and Level of the Course

The course is provided by the University of Skövde and is named Quality Engineering G1F. It comprises 3 credits and is on basic level. The level of progression of the course is G1F.

2 Objectives

After completed course the student should be able to:

- apply design of experiments for three factor experiments and estimate the main effects,
- follow instructions for a quality system in order to collect data and evaluate a process,
- search, gather and analyse data from a quality perspective in an organisation.

3 Course Content

During lectures are key terminology and methods for quality engineering and quality systems described. The students will discuss how these terms and methods relates to quality work in relevant organisations followed by field studies are made in order to gather data which later on will be analysed and reported. During the remaining part of the course will the student work according to a course specific quality system. The students shall decide upon the targeted quality on their own work and the quality system will ensure that the decided quality is achieved.

4 Forms of Teaching

The teaching comprises lectures, group assignments, supervision and laboratory sessions.

The teaching is conducted in Swedish. Some teaching in English may occur.

5 Examination

The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written assignment¹</td>
<td>2.5</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Laboration</td>
<td>0.5</td>
<td>G/U</td>
</tr>
</tbody>
</table>

¹ Determines the final grade of the course.

Students with a permanent disability who have been approved for special educational support may be offered adapted or alternative examinations.

6 Admission Requirements

Prerequisite courses for this course are: passed PR011G-Quality and Measurement Technology G1N and attended ST309G-Statistics for Engineers II - basic course G1F (or the equivalent).

7 Subject, Main Field of Study and Disciplinary Domain

The course forms a part of the academic subject area of Industrial Engineering. The course is a part of the main field of study in Industrial Engineering at the University of Skövde. The disciplinary domain of the course is Technology.
Every course at the University of Skövde belongs to a subject. The division of subjects is used for follow-up and quality assurance. A main field of study is an area in which a degree can be awarded. Disciplinary domain is a division which is used by the government for the allocation of resources for studies at basic level and advanced level.

8 Approval of Course and Course Syllabus

The course was established by the Curriculum Committee for Engineering Science on 4 December 2017. This course syllabus was ratified by the Curriculum Committee for Engineering Science on 4 May 2020. It is valid from 1 July 2020 and replaces the course syllabus ratified 4 December 2017.

9 Overlapping with Another Course

This course cannot constitute a part of a degree also containing a course the content of which is totally or partly equivalent to the content of this course.

10 Additional Information

Further information will be available on the university’s website before a course is given.

National and local regulations for higher education are available on the university’s website.

Upon completion of the course there will be a follow-up. The main purpose of this follow-up is to contribute to improvements of the course. The students’ experiences and views constitute one of the criteria for the follow-up and are gathered by means of course evaluations. The students will be informed of the results of the follow-up and any decisions regarding actions that are to be taken.

11 Course Literature and Other Educational Materials