1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Production Engineering Basic’s G1N. It comprises 3 credits and is on basic level. The level of progression of the course is G1N.

2 Objectives
After completed course the student should be able to:

- follow a structured problem-solving method, such as the PDCA (Plan-Do-Check-Act), and generate proposals,
- provide a basic explanation of how demands from the production process can influence product design from a financial-, quality- and technical perspective,
- demonstrate understanding of the importance of a holistic approach in product and process development and change management,
- communicate problem solving processes orally, in writing and graphically,
- provide a basic description of how production is defined as a system, with the value stream as a starting point and its need for systematic arrangement of its inherent components

3 Course Content
The course describes the roll of production in the product development process and how it affects the product design on a overall level. The role of process planning in the product development process is highlighted and examples are provided on consequences for various selected solutions. Typical issues which are addressed during process planning are parameters such as volume, flexibility and quality etc.. The course also highlights the importance of a holistic perspective during product development based on the lean philosophy. The different elements in a production system is also described based on the valu stream. The course describes a structured method for problem solving which the students apply in a basic case which is documented and presented.

4 Forms of Teaching
The teaching comprises lectures, group assignments, project work and presentations.

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

5 Examination
The course is graded VG (Pass with distinction), G (Pass) or U (Fail).

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projectwork¹</td>
<td>2 credits</td>
<td>VG/G/U</td>
</tr>
<tr>
<td>Written assignments</td>
<td>1 credits</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 offe-
6 Admission Requirements
The special prerequisite for this course, besides basic eligibility for university studies, is field eligibility A8/8: Chemistry 1, Mathematics 3c, Physics 2 or Chemistry A, Mathematics D, Physics B (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 approved by the Curriculum Committee for Engineering Science on 4 December 2017. This course syllabus was approved by the Curriculum Committee for Engineering Science on 4 December 2017. It is valid from 1 July 2018.

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