1 Name, Scope and Level of the Course

The course is provided by the University of Skövde and is named Technical Leadership A1N. It comprises 6 credits and is on advanced level. The level of progression of the course is A1N.

2 Objectives

After completed course the student should be able to:

- explain and discuss, in detail, important concepts, approaches and leadership styles within technical leadership,
- explain and discuss, in detail, important managerial techniques and leadership capabilities within technical leadership,
- present and critically discuss research articles within the areas of technical leadership,
- extensively assess and discuss the importance and responsibilities of the leadership for fostering innovation and development,
- extensively assess and discuss the importance and responsibilities of the leadership in relation to; ethical aspects of technological development, sustainability aspects related to technological development, and equality aspects in technical organizations/teams.

3 Course Content

The course provides knowledge in the area of technical leadership, where different concepts and aspects of technical leadership, such as leadership capabilities, leadership styles and managerial techniques, are covered. Studies of scientific and more practice-based literature also contributes to a deeper understanding of the circumstances and challenges under which a technical leader is acting. Finally, the course also gives a more thorough understanding for the responsibilities put on a technical leader, in relation to e.g. ethical and sustainability aspects of technological development.

4 Forms of Teaching

The teaching comprises lectures, presentations and seminars/group discussions.

The teaching is conducted in English.

5 Examination

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

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsupervised written examination</td>
<td>3 credits</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Oral presentation</td>
<td>1 credits</td>
<td>G/U</td>
</tr>
<tr>
<td>Individual assignment</td>
<td>2 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 offered adapted or alternative examinations.
6 Admission Requirements
The prerequisites for this course are a Bachelor degree of at least 180 higher education credits (equivalent to 180 ECTS) within the fields of integrated product development or production engineering or automation engineering or mechanical engineering or information technology or similar.

A further requirement is proof of skills in English equivalent of studies at upper secondary level in Sweden, known as English course 6 / English course B. This is normally demonstrated by means of an internationally recognized test, e.g., IELTS or TOEFL or the equivalent.

7 Subject, Main Field of Study and Disciplinary Domain
The course forms a part of the academic subject area of Virtual Product Realization. The course is a part of the main field of study in Virtual Product Realization 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 5 March 2018. This course syllabus was approved by the Curriculum Committee for Engineering Science on 4 February 2019. It is valid from 1 July 2019.

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
According to the teacher’s reference.