1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Information Fusion A1F. It comprises 7.5 credits and is on advanced level. The level of progression of the course is A1F.

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

- critically reflect on, discuss and present fundamental aspects of information fusion,
- critically reflect on and discuss the consequences of uncertainty and different methods to handle uncertainty within the area of information fusion,
- independently model problems and design solutions by using information fusion methods, and
- critically reflect on, and discuss the applicability of information fusion methods and their results.

3 Course Content
The course describes and discusses different methods for information fusion and discusses their use for decision support and the role of the human user of these systems. Different types of uncertainty within the information that has to be fused are presented and methods of uncertainty handling are discussed.

4 Forms of Teaching
The teaching comprises lectures, calculation exercises, seminars and exercises.

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>Assignment 1</td>
<td>3 credits</td>
<td>G/U</td>
</tr>
<tr>
<td>Assignment 2¹</td>
<td>4.5 credits</td>
<td>A/B/C/D/E/F</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 courses: IT733A-Artificial Intelligence A1N (or the equivalent).

7 Subject, Main Field of Study and Disciplinary Domain
The course forms a part of the academic subject area of Informatics. The course is a part of the main field of study in Informatics 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 Informatics on 8 February 2018. This course syllabus was approved by the Curriculum Committee for Informatics on 14 November 2019. It is valid from 1 July 2020 and replaces the course syllabus approved 8 February 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, e.g.
Information Fusion A1N 7.5 credits
Information Fusion - Advanced Topics A1F 7.5 credits

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**
Articles according to a reference list on the learning platform.