Scriptprogrammning G1F
Script Programming G1F
7.5 credits

1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Script Programming G1F. It comprises 7.5 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:

- describe the basic principles of script programming,
- apply regular expressions to perform pattern matching, as well as
- systematically design, implement, and debug scripts related to problems within the area of system administration

3 Course Content
The course is divided into a theoretical and a practical part. The theoretical part provides knowledge of the characteristics of a script language and the how and why of using scripts in the area of system administration. The students learns as well in a systematic way to design, implement, and analyze scripts for a given problem.

In the practical part, the students trains to solve provided assignments in different languages to consolidate the theoretical knowledge and to transform it into practical skills.

4 Forms of Teaching
The teaching compromises lectures and computer laboratories.

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).

To achieve a final grade in this course the following must be met:

The final grade is calculated as a weighted arithmetic mean value, where the value is an interpretation of the A-F scale onto a 4-0 scale, i.e. A=4, B=3, C=2, D=1, E=0, and the weighing is equivalent to the credits per course unit. The following formula is used: \((x \times 2.5 + y \times 2.5 + z \times 2.5)/7.5\).

Example: Grade A (4) on Assignment 1 (2.5 credits), grade B (3) on Assignment 2 (2.5 credits) and grade D (1) on Written examination (2.5 credits) give the weighted arithmetic mean value of \((4 \times 2.5 + 3 \times 2.5 + 1 \times 2.5)/7.5 = 2.6\), rounded to 3, results in the final grade B.

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(^1)</td>
<td>2.5</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Assignment 2(^2)</td>
<td>2.5</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Written examination(^3)</td>
<td>2.5</td>
<td>A/B/C/D/E/F</td>
</tr>
</tbody>
</table>

\(^1\) This grade will represent x in the formula for final grade in the cour-
2 This grade will represent y in the formula for final grade in the course.
3 This grade will represent z in the formula for final grade in 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: IT120G-Programming Fundamentals with C++ G1N.

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 course can also be a part of the main field of study in Computer Science, Informatics. 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 12 April 2018. This course syllabus was approved by the Curriculum Committee for Informatics on 17 December 2018. It is valid from 1 January 2019 and replaces the course syllabus approved 12 April 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. Procedural Programming in Perl G1N 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

The students will be given the opportunity to choose books on their own for the used programming languages "Perl" and "Powershell".