COURSE SYLLABUS

Bioinformatisk analys med Perl G1N
Bioinformatic Analysis with Perl G1N
7.5 credits

Course Code: BI118G
The Course Syllabus is valid from: 1 January 2021
Date of Approval: 26 March 2020
Version Number: 6

Subject: Bioinformatics
Main Field of Study: Bioinformatics
Disciplinary Domain: Natural Sciences
Academic Level: Basic level

1 Name, Scope and Level of the Course
The course is provided by the University of Skövde and is named Bioinformatic Analysis with Perl G1N. It comprises 7.5 credits and is on basic level. The level of progression of the course is G1N.

2 Objectives
After completed course the students shall be able to:

- describe the fundamentals of procedural programming,
- in a structured way analyse and break down a simpler problem into smaller sub-problems,
- based on a general description of a bioinformatics problem create a procedural program that will solve the same,
- interpret and create pseudo code for simpler algorithms,
- interpret and create procedural programs in the programming language Perl

3 Course Content
The course gives knowledge about procedural programming with the purpose of solving bioinformatics problems. The course includes both theoretical and practical background knowledge for procedural programming in the language Perl. Taught theory and practice is concretised with a number of exercises and assignments.

4 Forms of Teaching
The teaching includes programming exercises, assignments, supervision and laborations.

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).

The final grade will be issued only when all examinations are approved.

The final grade of the course is determined by the average from the grades for all written assignments; A=5, B=, C=3, D=2 and E=1. The average value is rounded to the nearest integer (half rounded up) and translated into a final grade according to 5=A, 4=B, 3=C, 2=D and 1=E.

Registration of examination results:

<table>
<thead>
<tr>
<th>Name of examination</th>
<th>Credits</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written assignment 1</td>
<td>1.5</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Written assignment 2</td>
<td>2</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Written assignment 3</td>
<td>2</td>
<td>A/B/C/D/E/F</td>
</tr>
<tr>
<td>Written assignment 4</td>
<td>2</td>
<td>A/B/C/D/E/F</td>
</tr>
</tbody>
</table>

Students with a permanent disability who have been approved for special educational support may be offered adapted or alternative examinations.
6 Admission Requirements
The special prerequisite for this course, besides basic eligibility for university studies, is field eligibility A14/15: Civics 1b / 1a1 +1a2, Mathematics 2a / 2b / 2c, Science studies 2 or Civics A, Mathematics B, Science studies B (or the equivalent).

7 Subject, Main Field of Study and Disciplinary Domain
The course forms a part of the academic subject area of Bioinformatics. The course is a part of the main field of study in Bioinformatics at the University of Skövde. The course can also be a part of the main field of study in Computer Science, Systems Biology. The disciplinary domain of the course is Natural Sciences.

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 Bioscience on 22 February 2018. This course syllabus was approved by the Curriculum Committee for Bioscience on 26 March 2020. It is valid from 1 January 2021 and replaces the course syllabus approved 22 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.

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