1. Qualification Aims
Acquisition of a deeper knowledge in branches of computational biology in recent research and teaching. Students will be able to search relevant actual literature to a given topic, write a paper in journal style and present their results in a talk.

The course is principally designed to impart technical skills 50%, method skills 40% system skills 10% social skills 0%.

2. Content
Course with changing content in the area of computational biology and nearby research activities, for example Molecular Dynamics, Normal Model Analysis, Rigidity / Constraint Theory, Articulated Body Motion, Motion Planning.

3. Module Components

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Course Type</th>
<th>Weekly hours per semester</th>
<th>CPs (according to ECTS)</th>
<th>Compulsory(C) / Compulsory Elective (CE)</th>
<th>Semester (WS / SS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computational Biology-Seminar</td>
<td>SE</td>
<td>2</td>
<td>3</td>
<td>C</td>
<td>SS</td>
</tr>
</tbody>
</table>

4. Description of Teaching and Learning Methods
Seminar with active participation of the students.

5. Prerequisites for Participation
Lecture Computational Biology of the chair visited or relevant prior knowledge.

6. Target Group of Module
Master students in Computer Science / Focus Intelligent Systems
Master students in Computer Engineering / Focus Information Systems
7. Work Requirements and Credit Points

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Calculation Factor</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 SE - Presence in lectures</td>
<td>2 * 15</td>
<td>30</td>
</tr>
<tr>
<td>Literature research</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Talk preparation</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>Written elaboration</td>
<td></td>
<td>20</td>
</tr>
</tbody>
</table>

8. Module Examination and Grading Procedures

Exam-equivalent study effort consisting of talk (40%) and written elaboration (60%).

9. Duration of Module

The module can be completed in 1 semester.

10. Number of Participants

Registration required due to limited number of participants, see http://www.robotics.tu-berlin.de/menue/lehre/

11. Enrolment Procedures

See http://www.robotics.tu-berlin.de/menue/lehre/
Registration for the exam in compliance with regulations; further information is provided in the lecture

12. Recommended Reading, Lecture Notes

Lecture notes available in paper form? yes □ no ☒
If yes, where can they be purchased?
Lecture notes in paper form are sometimes made available during class.
Lecture notes available in electronic form? yes ☒ no □
If yes, please specify web address: announced in the course

Recommended Reading: Announced in the course

13. Other Information

The language of instruction is English.