Winter School on Physics of the Cell - Assessment Tasks

**Preparatory work** as well as **class participation** are compulsory for **all participants**, and will grant **6 ECTS**. An evaluation mark is given for class participation.

Students needing **2 extra ECTS**, according to the credit transfer system of their home universities, are asked to prepare **in addition** a **research paper** on a chosen topic, to be sent over to the scientific tutor by **15 April 2020**.

Beside the **8 ECTS** a **final evaluation mark** will be awarded.

<table>
<thead>
<tr>
<th>Preparatory work</th>
<th>Over November-December</th>
<th>All participants – no evaluation mark</th>
<th>6 ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class participation</td>
<td>During the 2-weeks of WS</td>
<td>All participants – with evaluation mark</td>
<td></td>
</tr>
<tr>
<td>Research paper</td>
<td>By 15 April</td>
<td>Additional task (if expressly requested by the participant)</td>
<td>+2 ECTS</td>
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**Preparatory work**

**About 2 months before the Winter School starts**, participants will receive some papers recommended by the lecturers in preparation to each class activity.

Papers will introduce the theme that will be deepened and discussed during the lecture.

This Assessment Task relates to the following Learning Outcomes:

- Gather background information on the topics of the Winter School.
- Gain an interdisciplinary perspective on the issues to be discussed in class.
- Focus on the required mathematical tools.
Class participation

Due: throughout the Winter School

Students are expected to actively participate in class discussions and to show adequate knowledge of the materials provided by lecturers and the scientific supervisor. They are also expected to engage with other students and the tutor during the afternoon sessions (i.e. workshops and debates). The scientific supervisor will be constantly present in class and will act as a mediator, also stimulating students’ participation and class debate.

The simple attendance to the tutorial sessions does not grant the class participation mark.

This Assessment Task relates to the following Learning Outcomes:

- Display a preliminary knowledge and critical understanding of the topics discussed
- Participate actively to class discussions and debates
- Have a sound and multidisciplinary understanding of the discussed models.

Research paper

Due: by 15 April 2020

Participants who have chosen to get the 2 extra ECTS by preparing a research paper, are asked to request the approval on their own essay topic by the scientific supervisor during the Winter School.

This is to be a thought-provoking exercise to stimulate students to independently explore in depth one of the topics addressed during the Winter School.

By the end of February, each student is required to email in Word or PDF format to the scientific supervisor a one-page outline of the agreed research topic, methodology, and indicative sources for prior approval.

By 15 April, each student is required to email in Word or PDF format to the scientific supervisor the research paper.

Paper length: 2,500 to 3,500 words (excluding footnotes and bibliography).

This Assessment Task relates to the following Learning Outcomes:

- Display a sound knowledge of the selected topic and a critical reflection on lectures and class discussion
- Demonstrate a global and multidisciplinary understanding of the major challenges faced by researchers in the field
- Structure a research paper potentially ready for publication
- Present and discuss a case study or a comparative study by displaying (preliminary) results
- Be able to propose a possible topic for future theoretical research.