SK2004 Project course in Quantum Technology

7.5 hp

General information

The idea with a project course is that you do your own small research project at one of the research groups at our department. Registration to the course follows a special procedure as described in detail below and can be done at any time during the academic year (i.e., from end of August to middle of June with exceptions for holidays).

It is in principle possible to do a project outside our department, but this must be discussed with the course responsible on an individual basis.

Preparations before course start

Before you can start with the course, you need to go through the following steps.

- Find a project
- Find a supervisor
- Get registered for the course

Find a project

You have the possibility to find your own project that fits your personal interests. Most senior researchers at our department are happy to discuss possible projects with you, just ask around.

Find a supervisor

If you have found a project, your contact will in most cases be the supervisor of your project. The supervisor must be a senior researcher at our department (not a PhD student).

Get registered for the course

Once you have found a project, you must arrange with the paperwork together with your supervisor. The registration form can be downloaded from this page:

https://www.aphys.kth.se/internal/teaching

Please note that the starting date and the finishing date is a mutual agreement between you and your supervisor.

The registration form should be filled in and signed by you and your supervisor. The registration form should then be sent electronically to the course responsible and examiner (adya@kth.se) for a final signature before the course is registered in LADOK.

Please also check with your program responsible or study counselor if it is ok for you to take a project course.

Examination and completion

Your supervisor is responsible to organize and perform the examination of your project. You are formally examined through a written report and an oral presentation. The following rules apply:

Written report

The results of the project should be documented in a written report. The exact format is not defined and must be discussed with the supervisor.

Oral presentation

The project work must be reported in an announced oral presentation in front of an audience.

Registration of results

The examiner is responsible for the registration of the results in LADOK. For this, the result form must be filled out by the supervisor and send to adya@kth.se, together with a pdf version of the report. The form can be found here:

https://www.aphys.kth.se/internal/teaching

Grading criteria

The project will be assessed according to the grading criteria process, scientific content, and presentation, which are directly related to the learnings outcomes of the course.

Each criterion will be evaluated with point scale from 0-4 points, as described below. The final grade is calculated according to the following table:

Sum points	8 – 9	7	6	4 – 5	3	0 – 2
Grade	**A**	**B**	**C**	**D**	**E**	**F**

To pass, no criterion must be evaluated with 0 points.

Process

Excellent (3 points): Independently plan and carry out the work within agreed time frames, show good initiative and be open to supervision and criticism, show ability to acquire necessary knowledge for the project and independently search for and acquire a significant amount of knowledge related to the project.

Good (2 points): Plan and carry out work within agreed time frames, show initiative and be open to supervision and criticism, show ability to acquire necessary knowledge for the project and seek out and acquire a certain amount of knowledge related to the project yourself.

Sufficient (1 point): Carry out the work within agreed time frames, show some initiative and be open to supervision and criticism, show ability to acquire necessary knowledge for the project.

Fail (0 point): Lack of respect for agreements or disobedience to supervision. Inability or unwillingness to acquire necessary knowledge for the project.

Scientific content

Excellent (3 points): Demonstrate a very good ability to systematically apply the scientific skills required to carry out the project work.

Good (2 points): Show good ability to systematically apply the scientific skills required to carry out the project work.

Sufficient (1 point): Demonstrate basic ability to apply the scientific skills required to complete the project work.

Fail (0 point): Demonstrate an inability to apply the scientific skills required to complete the project work.

Presentation

Excellent (3 points): Demonstrate a well-disposed written account of work and results with clear analysis and well-founded argumentation, as well as good language processing, formality and scientific accuracy. Show good ability to present orally with clear argumentation and analysis, as well as good ability to discuss the work.

Good (2 points): Demonstrate well-disposed written presentation of work and results, analysis and argumentation, as well as good language processing and formality. Show good ability to orally report and discuss the work.

Sufficient (1 point): Present written report with acceptable structure, formality and language processing. Show ability to orally present the work.

Failed (0 point): Remaining major deficiencies in the written report despite the request, or inability to present the work orally.