Berlin School of
Optical Sciences &
Quantum Technologies

# My way to the BOS.QT – Certificate - what's necessary to earn the certificate?

**Certificate = finished research program (thesis) + finished study program**

1. Ask your supervisor to develop a strategy and to set intermediate goals. The supervisor is responsible for all scientific, administrative and technical issues of the doctoral student.

2. Work on your thesis project and finish it.

3. Contact your mentor and meet at least one time per year for 30minutes. Meeting two times per year (one time per semester) would be recommended.

4. While working on your thesis, take part in the BOS.QT study program designed to support your research and to network with other doctoral candidates:

- Go to the BOS.QT website and read the **BOS.QT study program.** The program will be updated and published on the website every term.
- Take part in the mandatory BOS.QT – PhD seminar (min. participation 80 % of seminars). Give at least one seminar talk.
- Chose workshops and lectures of interest and inform the professor about your participation. The required examination method (e.g. written exercise, presentation or others) for you as a PhD student will be set with the lecturer at the beginning of the course.
- Inform the BOS.QT coordination about all courses you have successfully attended at the end of each term.
- To earn the BOS.QT-Certificate, it is required for you to **take at least 2 courses** from the BOS.QT study program **from different elective areas** of the program (see below).

5. The BOS.QT coordination collects and lists all your attendances on the final BOS.QT – certificate.

**The BOS.QT study program – general structure**

The BOS.QT study program is part of the Graduate school. All BOS.QT-students are requested to actively participate in the lectures and activities offered by BOS.QT. The study program consists of the compulsory monthly PhD-Seminar and additional activities from area 1 to 4. Chosen additional activities required for the certificate need to cover **at least two of the elective areas 1 to 4** within **three years, i.e. during the BOS.QT membership.**

| **Area 1:**<br>**Fundamental Courses** | **Area 2:**<br>**PhD Compact Courses** | **Area 3:**<br>**Advanced Lectures** | **Area 4:**<br>**Transferable Skills and activities self-organized by PhD students** |
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| *will be offered in the fields of*<br><br>Fundamentals in Optical Sciences<br><br>Fundamentals in Quantum Technology | *will be offered in the fields of*<br><br>Ultrashort spectroscopy, Processing/characterization, Computational photonics, Practical electronics, Labview and other software tools | *will be offered in the fields of*<br><br>Nonlinear light-matter interactions and ultrafast dynamics<br>Quantum optics and quantum devices<br>Nanophotonics and photonic systems<br>Light sources and detector technologies | *for example:*<br>retreats, project management, leadership/conflict management, presentation skills, entrepreneurship and start-up activities, intercultural training, networking events, topical research seminars, conference and summer school participation and organisation, short term scientific missions to international partners |
| **Monthly PhD Seminar**<br>(2nd week of the month, Monday, 4pm-6pm via Online-meeting ZOOM) | | | |
| **PhD Thesis** | | | |