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QOLS Guide Book

Office of the Quantum Academy of Science and Technology

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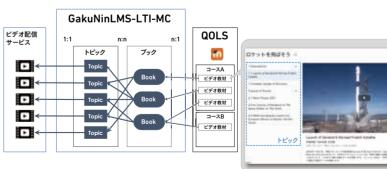
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What is QOLS?

QOLS is the Quantum Online Learning System that is provided by the Inter-University Research Institute Corporation, Research Organization of Information and Systems, National Institute of Informatics (NII) in Japan. This system uses the GakuNin LMS learning management system platform, which was developed by the NII Research Center for Open Science and Data Platform (RCOS).

Through this system, lecture courses developed by the Quantum Academy of Science and Technology can be distributed as customized courses for individual institutions. Course takers can check the history of their own learning and study at their own pace. The system also provides advanced functions to the teachers in charge of a course for evaluating

the learning progress, managing grades, and analyzing the learning effect of each individual student at their institution.



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Glossary

Quantum Academy of Science and Technology: An organization established by five participating institutions consisting of The University of Tokyo, Keio University, Nagoya University, Kyushu University, and NII as an academy for striving to nurture human resources who have a high level of expertise in quantum technology and a diverse range of career paths.

Teacher: A person who runs or creates courses.

Student: A person who takes courses.

Site administrator: A person who manages QOLS overall. Only site administrators are able to perform backups, restores (duplication), role changes, etc.

Role: The role of the user depending on their purpose. This includes site administrator, teacher, and student.

Rights: The things that can be performed by each role. This includes creating, editing, and adding courses, managing grades, taking courses, etc.

View: View a course without academic assessment.

Take a course: View a course with academic assessment.

Label: An ID corresponding to the institution to which the user belongs.

Backup: Temporarily save course data onto a PC.

Restore: Duplicate a course based on backed-up data.

Institution-limited course: A course that is held only for people who belong to their own institution.

Own institution: The institution to which the user belongs.

Other institution: An institution other than the institution to which the user belongs.

Own institution category: An area that stores institution-limited courses for your own institution.

Other institution category: An area that stores institution-limited courses for other institutions.

Academy category: An area that stores courses published by the academy.

Course: Corresponds to a subject. QOLS has courses published by the academy and you can also create courses limited to your own institution.

Module: Corresponds to a unit in a course. Collections of learning content that can be created by dividing courses into multiple sections.

Book: A collection of video material that opens in a separate window from a QOLS course. Books are played in CHi-Bi-CHil.O.

Topic: A learning page that displays a combination of one video and its explanation. A multiple of these can be registered in a book.

CHiBi-CHiLO: A system for playing back video material created based on the micro-content teaching material system (LTI-MC) that was developed by the NII Research Center for Open Science and Data Platform.

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Benefits of Using QOLS

Teachers Can create their own courses based on existing courses.

Can use their own developed courses for other purposes, such as summer school, as well as share them so that they can be used

by other universities.

Can manage the learning progress of their students online.

Students Can study high-quality material at their own pace.

Can use universal design.



What Teachers Can Do

- 4-1 Running and Editing Courses
- 4-2 Managing Student Grades and Learning Progress
- 4-3 Taking and Viewing Courses

4-1 Running and Editing Courses

- Decide how to use the existing courses.
- 2 Update existing modules and prepare new modules to be added.
 In principle, module content is all created under the Creative Commons license CC BY-SA.
- Make a request to site administrators to grant the institution-limited course creator role. At this time, the institution-limited course editing teacher role is also automatically granted.
- Create new courses and register the prepared teaching material.

 Courses are registered and held with the same label as the label of the institution to which a person belongs.

 (For example, if a creator belongs to University A, the course is held labeled.)
 - (For example, if a creator belongs to University A, the course is held labeled as University A.)
- Institution-limited course creator and institution-limited course editing teacher can manage the grades and learning progress of students for those courses.

Note: Courses can also be edited by people other than the creator themselves. The institution-limited course editing teacher role can be granted to a proxy by making a request to a site administrator. **Note:** Refer to the Moodle manual for details on how to create courses, how to register material, and how to manage student grades and learning progress.

4-2 Managing Student Grades and Learning Progress

Course creators can manage the grades and learning progress of course takers as their teacher.

You can have multiple people (e.g., coursework assistants) manage the grades and learning progress of a single course by making a request to a site administrator.

4-3 Taking and Viewing Courses

In QOLS, lecture courses are published in the Quantum Academy of Science and Technology category. These lecture courses can be viewed by anyone.

For institution-limited lecture courses, site administrators can assign rights to take and view courses with the consent of the course creator.

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Requests that Can be Made to Site Administrators

Please contact the office of the Quantum Academy of Science and Technology (the office) for the following. A request will be made from the office to the site administrators.

- ① Granting and changing roles (e.g., adding a TA).
- ② Holding courses in the Quantum Academy of Science and Technology category instead of the own institution category.
- ③ Deleting courses.

Note: The following operations are only available if you have the editing teacher role for the institution to which you belong. (There are several types of teacher roles.)

- 1 Attaching PDF.
- ② Reordering videos.
- ③ Giving report questions.
- 4 Switching out a PDF to edit it.

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Licenses

6-1 Background (Selection of CC BY-SA)

CC BY-SA (https://creativecommons.org/licenses/by-sa/4.0/deed.ja) was chosen for the license.

What is allowed under CC BY-SA

Share — Copy and redistribute the material in any media or format (including for commercial purposes).

Adapt — Remix, transform, and build upon the material (including for commercial purposes).

ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original work.

Note: When QOLS teaching videos contain a mixture of CC BY-SA and materials with viewing restrictions (secondary usage not permitted), the materials with viewing restrictions must not be used secondarily.

6-2 Purpose of License Selection

The purpose of the license is to allow video teaching materials to be widely distributed under the CC BY-SA license while also protecting the rights of the copyright holder.

Key points about CC BY-SA

- 1 License type and properties cannot be changed later.
- 2 Text is not needed if the logo is displayed.
- 3 Conditions on secondary use



Attribution — You must give appropriate credit ("products of the academy were used"),



provide a link to the license, and indicate if changes were made ("This part was changed. I am responsible for that part.").

ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license (= CC BY-SA) as the original work.

6-3 Examples of Attribution Text

When using the course "Fundamentals of Linear Algebra" (by Bit-kun, the character of National Institute of Informatics) for secondary uses

Example text 1

This material was adapted from material published by QOLS ("Fundamentals of Linear Algebra", by Bit-kun, the character of National Institute of Informatics, CC BY-SA 4.0).

Example text 2

This material was translated from material published by QOLS ("Fundamentals of Linear Algebra", by Bit-kun, the character of National Institute of Informatics, CC BY-SA 4.0), and I as the secondary user am responsible for the text.

6-4 Positioning of Attribution Text

Specify the license in "Topic Details".

(Topics have a field called details. You can specify information related to the license here. The specified license information is saved in the database)

Note: These can be grouped together in "Book Details". In that case, you can insert the attribution text here.

6-5 Video Teaching Material Licenses are Uniformly CC BY-SA

All of the QOLS video teaching material is licensed as CC BY-SA. (A course creator can choose whether to make a course publicly available. This can be changed later.)

6-6 Display of Logo and Text

The CC BY-SA logo is displayed in the topic details, and the "text" is displayed in the book details.

The logo icon is displayed in the bottom-right corner of videos (refer to the following figure).



▲ If a license is specified in the topic details, the logo is displayed here.