
TechEdu Cloud Lab

High-quality teaching resources, efficient practice environment, industrial resources docking

TechEdu Cloud LabIt is a new generation of high-level intelligent training platform, provide 5G、Kunpeng、Gauss DB、Cloud computing、Big Data、AI、IOT、Data security、software development and other professional teaching content and cover the simulation experiment environment、Laboratory manual、Convenient and efficient cloud lab resources including online question-and-answer and experiment report, support recorded and broadcast teaching and remote live teaching , provide an integrated solution ranging from online learning, practical training, assessment and measurement to high quality internships and employment.

➤ **In terms of resource aggregation**

Cloud platform is a diversified and open platform. It provides standard API interface, which can facilitate the docking of cloud or practical training resources for high-quality courses in the industry, so that the platform has rich teaching practice content resources.

➤ **In daily teaching**

➤ Cloud platform is a multi-functional teaching platform, providing teachers with the function of creating courses flexibly, facilitating teachers to add new course content in teaching, and effectively improving the ability of teachers to innovate teaching.

➤ **In the design of the function structure of the platform itself**

➤ It has some advanced features: resource update, adaptive industry, capability modeling, learning intelligence, visualization of results, process monitoring, talent evaluation, job matching, employment recommendation, and operation revenue monitoring.

➤ **In terms of cloud laboratory construction**

The cloud platform provides simulation experiment environment and services for various technical directions of ICT industry, supports three construction methods of public cloud, private cloud and hybrid cloud, supports one click creation, cleaning and recovery of experimental environment, and supports rapid expansion and upgrading. Solve the problems in the process of building, managing and maintaining the ICT experimental environment, and create the

best cloud practice experience for enterprise engineers, college students and other ICT technology enthusiasts. The public cloud practice platform runs on Huawei's public cloud, and can be accessed anytime, anywhere, without deployment, maintenance, and cost saving. Its scale is dynamically adjustable and unlimited. The private cloud practice platform runs on the customer's private cloud, and can be configured to access anytime, anywhere, improve the hardware utilization by 2-3 times, and retain the integration interface with the public cloud, Easy to expand to hybrid cloud. The hybrid cloud practice platform, part of which runs on Huawei's public cloud and part of which runs on the customer's private cloud, makes full use of the existing experimental equipment and training resources, and the capacity can be seamlessly and smoothly transferred between the public cloud and the private cloud.



—Cloud Platform Features—

The design of lab functional structure is based on "how education serves the industry, how to integrate production and education resources, how to advance practical skills of enterprises to schools, and how to adaptively match talents and posts". It formulates six functional modules, including portrait construction, curriculum customization, teaching management, intelligent learning, ability evaluation, and integration of production and education. It is mainly applicable to students, teachers and presidents . Cloud platform has different function experience for different user roles.

➤ **For students**

My learning	Live resources	Live Course	Exam&Evaluation
Case Study	My Homepage	Jobs Matched	Industry resources

- Course resources: the platform provides course content resources including course videos, experiments, courseware, cases, exercises and assignments.
- Live resources / live courses: you can view the live courses of all teachers in the system. For courses with permission, you can click "view details" to enter the course details page.
- Test evaluation: click "test evaluation" to participate in real-time examination and simulation test.
- Learning progress: click "learning progress" to view the progress of individual learning and experiment on the platform, manage / clean the experimental environment online, and download the experiment report.
- Student homepage: record the learning track and ability growth of students in the platform.
- Jobs Matched: the platform can intelligently match suitable recruitment positions of enterprises according to the accumulated learning achievements of students
- Industry resources: provide online training and learning resources of new technology or case in ICT industry.

➤ **For teachers**

Syllabus	Course Editor	Lab Editor	Permission Management
Lab Console	Lab Grading	Exam Management	Class Management
My Progress	Discipline Editor	Exercises	Homework

		Management	Management
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- Course resources: Online lesson preparation and teaching management system created by the platform for teachers.
- Cloud on course: click "Edit View" to enter the course resource editing mode. The teacher can create a custom course and put the course resources on the cloud for students to learn.
- Experiment cloud: editing experiment. Teachers can create experiments, customize the experimental environment, and put personal experiments on the cloud to provide students with online training.
- Authority management: teachers can set the access rights of the students' accounts on the platform resources according to the needs.
- Experiment console: the teacher can carry out visual management and online control on the students who have experimental authority.
- Experiment score: teachers can view, manage and grade the students' experiment records.
- Examination management: the teacher can manage and view the students' test record, download the score record, create and publish the exam, and customize the question bank.
- Class management: teachers can create and manage classes and add student accounts in the platform system.
- Personal progress: check the learning and experiment progress of individuals on the platform, manage and clean the experimental environment online, and download the experiment report.

Specialty setting: click "specialty setting" to see the professional curriculum system set by the dean. The teacher will associate the setting of the course created by himself in the relative position, and the course can be lighted after the setting is completed.

➤ **For Management**

Data Overview	Discipline Editor	Resources Management
Teacher Management	Permission Management	Lab Console

- Data overview / data monitoring: data overview monitoring, including student

data, employment data, market data.

Create a major: create a new major for the school, and configure the professional curriculum system online through the template provided by the platform.

- Teacher management: the Dean can create teacher accounts and modify teacher information.
- Authority management: the Dean can set permissions for all students in the class, add students to the curriculum resource permission pool, or course + experiment permission pool.