Center for
Digital Education Research

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http://openschool.kedi.re.kr/

We will lead
the future
education for all

Center for
Digital Education
Research

KEDI
KOREAN EDUCATIONAL DEVELOPMENT INSTITUTE

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Greetings

Center for Digital Education Research has delivered on its commitment to ensuring all students' right to learn. Center for Digital Education Research has strived to expand opportunities for the underprivileged by providing digital-based regular education and customized education support service. Thanks to our long-developed expertise in online education, we shared our online content with the regular schools during the Covid-19 pandemic, which has implemented online learning as a new norm.

Currently, our society is facing significant changes which ask us to adjust to the new normal. As a consequence, future society calls for education reform and innovation, which will promote students' creative and convergent thinking competency and allow them to create values for sustainable development.

The role of the Center for Digital Education Research is becoming more important and specialized in this era of shift. Therefore, we set a vision of "implementing educational equity through distance education" by resolving the education gap and providing individualized education based on learning data.

Center for Digital Education Research will take a giant leap towards constant development as a central institution that leads distance education and future education. We are committed to leading future education by providing individualized and customized learning experiences to our students based on our experiences and expertise in online education operations and research. We would like to ask for your continued interest and support.

President of Korean Educational Development Institute Ryu Bag

History

Center for Digital Education Research has delivered on its commitment to implement educational equity and ensure the right to education. We will strive to lead future education by addressing the needs of the new normal.

1974

1974. 01.
Decree on the Establishment of Open High School was enacted.

1974. 03.
11 Open High Schools were established in Seoul and Busan.

1973

1973. 02.
High school entrance examination system was revised and Open High School establishment plan was developed.

1973. 03.
Research for the establishment of Open High School was assigned to Korean Educational Development Institute. (KEDI)

1976

1976. 09.
Regulation for educational credential assessment test for Open High School graduates was published.

1977

1977. 02.
Open High School's first commencement was held. (2,680 graduates)

1987

1987. 03.
A total of 50 Open High Schools were established. (48,067 students)

2004

2004. 03.
KEDI began to develop an online learning platform for Open High School.

3 pilot schools were designated to initiate online education.

2006

2006. 03.
An online learning platform for Open High School was launched.

Educational credential assessment test for Open High School graduates was abolished.

2011

2011. 01.
Operation system for Open High School was reorganized and plans to support underprivileged through distance learning was established. (Open Middle School establishment plan included)

2011. 08.
Decree on the Establishment of Open High School and enforcement rule of the decree was revised. (foundation for Recognition of Prior Learning for Open Middle·High School)

2012

2012. 01.
Elementary and Secondary Education Act was amended. (foundation for establishment of Open Middle School)

2012. 03.
Mobile learning platform for Open High School was launched.

3 pilot schools were designated to initiate Recognition of Prior Learning for Open High School.

2012. 09.
Online Class for high school began to operate.

2013

2013. 03.
2 Open Middle Schools were established in Daegu and Gwangju.

Recognition of Prior Learning for Open Middle·High School was implemented.

2014

2014. 03.
Open Middle Schools were established in Daejun, Gyeonggi, and Gyeongnam.

42 Open High Schools were operating in 16 cities and provinces.

2015

2015. 05.
An online learning platform for e-School for Student-Athletes was developed.

2015. 09.
Online Class for middle school began to operate.

2016

2016. 02.
Open Middle School's first commencement was held. (201 graduates)

2016. 05.
An online learning platform for School for You was developed.

2017

2017. 03.
An exclusive class for school-age students was organized in Open Middle School. (Jeju)

School for You for secondary education began to operate.

e-School for Student-Athletes was implemented in middle·high schools nationwide. (40,128 students)

Pilot project for Learning Support for Unschooling and School Dropouts began to operate in 6 cities and provinces.

2017. 07.
e-Schoool run-up courses for student-athletes were opened.

2017. 09.
Real-time online courses for School for You students were opened.

2017. 11.
Enforcement Decree Of The Elementary And Secondary Education Act was amended. (foundation for the operation of the project for Learning Support for Unschooling and School Dropouts)

2018

2018. 04.
First educational credential assessment for students of Learning Support for Unschooling and School Dropouts was implemented.

2018. 10.
School for You's first offline camp "Let's go together!" was held.

2018. 12.
An Online assessment system for Online Class was established.

2019

2019. 01.
Guidelines for Preparation and Management of School Records was amended. (set a criteria to record the result of Online Class completion)

2019. 03.
24 Open Middle Schools were operating in 16 cities and provinces.

Pilot project for Learning Support for Unschooling and School Dropouts were operating in 15 cities and provinces.

2020

2020. 03.
School for You for primary education began to operate.

2021

2021. 03.
Online Class system was temporarily provided for middle and high school students in Daegu during Covid-19 pandemic.

2021.
Open Middle·High School's online contents were provided for regular middle·high schools students during Covid-19 pandemic.

Vision & Goals

Vision

The realization of educational equity through distance learning.

Goals

- Extend opportunities for regular education and ensure students' rights to learn, specifically for the underprivileged
- Provide unlimited access to online education to students; whenever, wherever, and with every device
- Substantialize lifelong elementary and secondary education society
- Improve qualities of students' experience with distance learning
- Establish teaching and learning environments that support students' equal access to their education
- Conduct studies on intelligence information technology and strengthen the capacity of its application in educational settings

Key Initiatives

- Raise the status of Center for Digital Education Research and leap forward, in accordance with the increased needs and importance in operating distance education.
- Seek ways to promote digital literacy required in post-Covid era.
- Manage performance on Open Middle·High School distance education along with establishing washback systems.
- Improve Recognition of Prior Learning by reflecting the findings of research.
- Support Open Middle·High School operation systems and manage onsite tasks to prevent post-Covid impact.
- Seek ways to support educational support system and implement the learning data that reflect learners' needs.
- Strengthen research capabilities regarding future core technology. (e.g., learning analytics, AI, and big data)
- Enlarge contents and infrastructure for distance education, and lay a foundation to utilize resources from KEDI's national perspective.

National Policy Tasks

National Policy tasks related to education

[49] To strengthen educational services from early childhood to higher education

[50] To innovate public education by revolutionizing classroom education

[51] To restore the ladder of hope in education

[54] To create a better educational environment to prepare for the future and make schools safe

Key Initiatives for Ministry of Education in the year 2021

[1] Reinforce Learning Safety Net

① Increase educational and course materials for online learning.

④ Minimize discrepancies in academic learning gap and ensure basic learning opportunities.

⑤ Organize an inclusive education environment, particularly for students with disabilities and multicultural students.

KEDI's Resources and Strengths

Have accumulated operational experiences from Open Middle·High School and carry professional human resources and infrastructures.

Manage teaching and learning environments for a future distance learning.

Constitute and operate a system that acknowledges extra-curricular learning experiences.

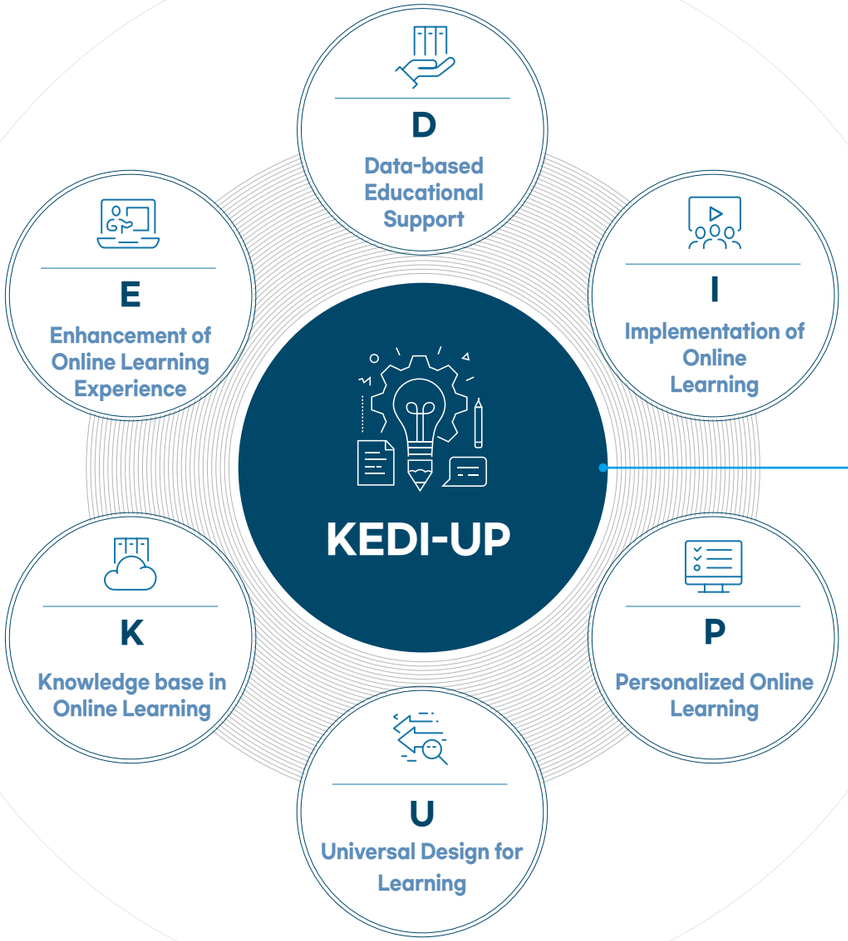
Have decent organizational operative know-hows regards to underprivileged in education and contain a lot of educational support system.

Own a core research center that has professional research capacity in education.

Form intimate connections for distance education among the Ministry of Education, metropolitan and provincial offices of education, school units, and relevant institutions.

Have secondary digital education contents based on national education curriculums.

Roles and Functions



Knowledge base in Online Learning

- As a national knowledge base of online education, KEDI meets the online educational needs of the country, society, and schools.
- KEDI prepares online education for next generation by conducting research on the application of online education and its directions for the development.

Enhancement of Online Learning Experience

- KEDI sets up online education as a new norm for education that guarantees a successful learning experience, in preference to an alternative method of delivering classes.
- KEDI aims to strengthen learners' online learning experience by developing an online learning environment, strengthening teacher competency, and conducting expertized consulting services.

Data-based Educational Support

- KEDI supports data-based learning, with the data we own and our professionalism in teaching.
- KEDI sets up systems and environments for online learning to bring intelligent information technology such as big data and AI.

Implementation of Online Learning

- KEDI performs actual online learning by supporting students of different backgrounds, including Open Middle·High Schools, Online make-up courses, School for You, e-School for student-athlete, and learning support for unschooling and school dropouts.
- KEDI conducts researches and projects based on our operational experiences and outcomes.

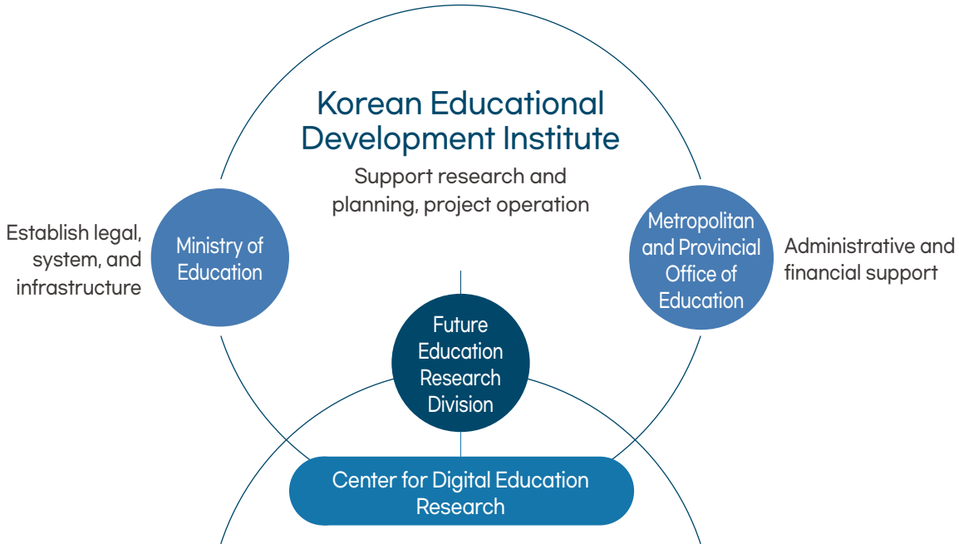
Universal Design for Learning

- KEDI designs and operates online education to minimize obstacles that could hinder online learning.
- KEDI provides fair opportunities for all learners by laying out the educational resources and methods adopted from Universal Design for Learning.

Personalized Online Learning

- KEDI designs customized teaching and learning environments that consider individual characteristics of each student: Open Middle·High School students, students with health impairment, student-athletes, preschoolers, and school dropouts students.
- KEDI provides online education that can fulfill individual needs based on learning analysis.

Organization



Research Planning and Management
Plan and manage projects
Conduct researches
Run research schools
Promote Open Middle·High School

Open Middle·High School Operation
Plan and support academic affairs of Open Middle·High School
Support operation of Open Middle·High School Council
Support academic adjustment of Open Middle·High School students
Support basic academic ability of Open Middle·High School students

Teaching & Learning Development
Plan Open Middle·High School curriculum
Develop learning contents for Open Middle·High School
Develop textbooks for Open Middle·High School

System Development and Operation
Operate and maintenance of Open Middle·High School online learning system
Operate and maintenance of Open Middle·High School IT infrastructure/security
Support for Open Secondary School students' capability to utilize ICT

Recognition of Prior Learning
Operate Open Middle·High School's Recognition of Prior Learning
Improve Open Middle·High School's Recognition of Prior Learning

School for You
Operate School for You primary and secondary curriculum
Develop learning contents for School for You primary curriculum

Online Class
Operate Online Class
Operate and maintence of Online Class system
Develop learning contents for Online Class

Learning Support for Unschooling and School Dropouts
Operate projects for unschooling and school dropouts
Operate educational credential assessmet
Operate and maintenance of Learning Support system

e-School for Student-Athletes
Operate projects for e-School
Operate and maintenance of e-School system

Current Status

〈 as of 2021 〉

Open Middle·High School

Provide students without secondary education qualification, opportunity to learn secondary education

- Number of Schools: Open Middle School **24**, Open High School **42**
- Number of Students: Open Middle School **4,782**, Open High School **10,150**

Online Classes

Resolve uncredited or unprovided course issues in the regular middle·high school and provide a wider range of academic options

- Number of Students: Middle School **7,492**, High School **10,803**
- Number of courses: Middle School **38**, High School **61**

School for You

Ensure the right to education for students with health impairment and support students to get back on track with their studies

- Number of Students: **1,053**
- Number of synchronous class: Elementary school **30**, Middle school **11**, High school **22**
- Number of asynchronous class: Elementary school **36**, Middle school **47**, High school **66**

e-School for Student-Athletes

Ensure the right to learn for students-athletes and promote students' basic academic ability

- Number of Schools: Middle School **2,028**, High School **1,226**
- Number of students who completed one or more courses: Middle School **17,507**, High School **16,380**

Learning Support for Unschooling and School Dropouts

Develop an educational credential evaluation system which recognizes extra-curricular learning for students from outside of school

- Number of Students: **1,351**
- Number of students who received credit: **85**

Open Middle·High School

Open Middle·High Schools are established as affiliated schools at 66 public middle·high schools across the nation in order to provide a learning opportunities for those who do not have secondary education qualifications.

※ Article 43-2 and Article 51 of Elementary And Secondary Education Act, Article 75-2 and Article 94 of Enforcement Decree Of The Elementary And Secondary Education Act, Decree on the Establishment of Open Middle School and Open High School, Enforcement rule of Decree on the Establishment of Open Middle School and Open High School

Middle School: www.cyber.ms.kr High School: www.cyber.hs.kr

Target

Individuals who have not attained secondary education.

Features

▶ A School where anyone can come and learn
- Provide learning opportunities for anyone who wants to attain secondary education.

▶ A school that implements digital-based learning
- Facilitate online learning environment based on Open Middle·High School's online learning system.

▶ A school that you go to twice a month
- Attend offline classes every other weekend for learning and experience school life via various student support programs.

▶ A school that recognizes various extracurricular learning experiences
- Through a Recognition of Prior Learning, credits are awarded for your extracurricular learning experiences.

Operation Method

Provide blended learning experience by integrating offline and online learning

Offline learning
- Face-to-face learning support is given to students during offline classes twice a week.
- Various school programs are held including commencement, retreat, field learning, nationwide Open Middle·High School Festival, and more.

Online learning
- PC, tablet PC, smartphones, and other digital devices can be utilized for learning.
- Online learning content such as courses based on the regular curriculum and supplementary learning materials are provided.
- Personalized learning for each student is provided via Learning Management System(LMS).

Operating Programs

Tutoring Program (Open Middle·High School)
- Provide level-specific support program that can improve students' basic scholastic ability, specifically English and Math.
- Provide level-specific content and real-time video-conferenced classes.

Lifelong Education Program (Open High School)
- Provide programs that build students' character with the purpose of preventing adolescent learners' school dropouts, and supporting their return to study.
- Support lifetime education program for adult learners to design their stable lives.

ICT Support Program (Open Middle School)
- Offer on-site consulting service (specialized expert) to train first-year students at Open Middle School with information technology.

Self-Understanding Program (Open Middle School)
- Provide online psychological test and on-site consulting service/student activity program that could support students' exploring themselves.

Recognition of Prior Learning

About the System

Recognition of Prior Learning is a process by which Open Middle·High School students' prior learning experience is given an academic recognition. By evaluation process, Open Middle·High School students can seek the award of academic credit base on the relevant learning experience they have acquired.

※ Article 3-2 of Decree on the Establishment of Open Middle School and Open High School

Benefits

Open Middle·High School students' out of school activities can be accepted as equivalent courses to their school's curriculum.

>> If accepted, students can be exempted from taking several courses or exams during senior year.

>> Early graduation is possible with a year at maximum.

Credential Types

1. Lifelong learning account system
2. Lifelong education facilities acknowledged as academic achievement
3. Alternative schools acknowledged as academic achievement
4. GED (general equivalency diploma) prior to enrollment
5. Master of the intangible cultural asset holder
6. Licenses (certificates officially approved by the Government and private organizations)
7. Public employment training facilities, Naeil Irum School(formerly, Employment Academy)
8. Technical school, higher civic school, high technical school, other schools
9. Literacy education program acknowledged as middle school academic achievement
10. Master artisan, apprentices or assistants of such masters, skilled technician
11. Opened and designated learning courses by the metropolitan and provincial superintendent of education

Procedure

Register — Online register for recognition of prior learning

→

Screening — Screening by school and KEDI

→

Announce Result — Confirmation of the result and administer appeals

→

Academic Records — If accepted, the student is allowed for an early graduation (a year maximum)

Online Class

Online Class is designed to ensure the right to learn and the right to choose subjects by providing online class which is demanding to be provided or completed in offline class for students who are transferred.

※ Article 24 of Elementary And Secondary Education Act, Article 48 of Enforcement Decree Of The Elementary And Secondary Education Act

Middle School: ms.onlineschool.or.kr High School: hs.onlineschool.or.kr

Target

Middle school and high school students who need to fulfill their credits that are incomplete or unprovided from school due to transferring schools.

Features

- ▸ Allow students to study easily and effectively by using PC and mobile PC anytime, anywhere.
- ▸ Provide contents based on regular education curriculum.
- ▸ Provide systematic learning management to students.
- ▸ Manage the quality of learning through online assessment.

Details of Online Class

Utilize curriculums based on regular middle·high school educational curriculums.
(Utilize online lectures from Open Middle·High Schools and online make-up courses.)

Subjects

Middle School **38** courses

High School **61** courses

※ As of 2021
※ Students can enroll up to 2 courses for each semester.

Schedule

Registeration period:
March (1st semester), August-September (2nd semester)

※ Students must check the registeration period on the announcement from Metropolitan and Provincial Offices of Education.

Procedure

School Unit
Apply with the help of each school unit's online class advisor

→

Student
Sign up for online classes and take classes

→

Student
Submit online class assignments (1st and 2nd)

→

School Unit
Take the final exam according to the criteria required by Metropolitan and Provincial Offices of Education

→

School Unit
Document students' school record whether the student completed the required courses or not

School for You

School for You is an online learning system based on regular education with high accessibilities, which is designed to help students with health impairment who have difficulties in attending schools, allowing them to pursue their educational experience.

※ Article 15 of Act On Special Education For Persons With Disabilities, Article 10 of Enforcement Decree Of The Act On Special Education For Persons With Disabilities

Main: s4u.kr Elementary School: es.s4u.kr Middle School: ms.s4u.kr High School: hs.s4u.kr

Target

- Elementary·Middle·High school students who are identified as having health impairments.
- Elementary·Middle·High school students who are not eligible for health impairments but are expected to have more than 3 months of long-term medical treatments and leave of absence due to having serious physical injuries such as burns and car accidents.

Features

Convenient Online Learning System	Real-time video-conference class with peers	Convenient attendance management	Learning and emotional supports from online teachers	Provide customized learning support
• Students can start learning right away after signing in. • Students can access and utilize content to schoolwork 24/7 from any time and anywhere. • Students can choose subjects and chapters geared towards their needs.	• Synchronous class where students interact with both teacher and peers. • Provide classes based on regular education curriculum.	• Both students and teachers can easily check attendance status.	• Each student is assigned to an online teacher. • Provide learning management and counseling service. • Offer online/offline counseling. • Q&A session via homepage and video-conferencing.	• Learning support after assessing students' basic academic capability. • Provide career·admission consulting.

Details of School for You

Primary Curriculum

Asynchronous Course

Utilize learning contents that the course instructor made.
- G1-G2: Korean, Math, Integrated subjects, safe life
- G3-G6: Korean, Social Studies, Math, Science, Arts, English

Synchronous Course

An online real-time class based on regular education curriculum.
- G1-G2: Korean, Math, Integrated subjects
- G3-G6: Korean, Social Studies, Math, Science, Arts

Secondary Curriculum

Utilize learning contents based on regular education curriculum.
- 2015 Revised National Curriculum: 38 Middle School courses and 67 High School courses

An online real-time class based on regular education curriculum.
- Korean, Social Studies, Math, Science, English

Procedure

Student·Parent
Apply for School for You with the help of teacher

→

School Unit
Send enrollment registration letter to relevant Office of Education

→

Office of Education
Select candidates and send application letter

→

School for You
Assign online teacher and provide orientation to the students

→

Student·Parent·Teacher
Sign up for School for You system and take classes

e-School for Student-Athletes

e-School for Student-athletes allows students to make up for missed classes due to competition and practice sessions.

※ Article 6 and Article 11 of School Sports Promotion Act

Middle School: ms.e-school.or.kr High School: hs.e-school.or.kr

Target

Middle and High Schools in which student-athletes are enrolled.

Features

▶ Provide learning contents based on regular education curriculum
- Provide learning contents which go along with the curriculum of the school.

▶ Offer online learning programs customized for student-athletes (human rights, career path, sports & humanities, etc.)
- Provide abundant learning contents customized for student-athletes. (career·job, learning aids, human rights education and (sexual) violence prevention education, aids for international match admission, sports humanities·sciences contents, etc.)

▶ Enhance the efficiency of learning management and guidance for student-athletes
- Provide online learning resources and confirmation document for attending classes.

▶ Easy and convenient learning
- Allow students to study using PC, mobile PC, and tablet anywhere and anytime.

Details of e-School

	Regular Curriculum	Run-Up Course
Details	Allow student-athletes to make-up for missed classes due to competitions and training and provide programs to support students' learning.	Programs are given during vacations to ensure the basic academic capability of student-athletes who are academically incompetent.
Target	Middle·High Schools in which student-athletes are enrolled.	- Middle school: Student-athletes who score less than 40% of the average score. - High school: Student-athletes who score less than 30% of the average score.
Subjects	Utilize online learning contents from Open Middle·High School.	- Middle School: Korean, English, Math, Social Studies, Science - High School: Korean, English, Social Studies
Schedule	1st semester: March~August 2nd semester: September~January	Run-Up Summer: July~September Run-Up Winter: December~ February

Procedure

Set up a plan to make-up the classes missed due to athletic matches → Get approval from the principal → Participate in athletic competition → Attend e-School → Issue confirmation document for attending e-School

Learning Support for Unschooling and School Dropouts

Learning Support for Unschooling and School Dropouts provide various learning support programs and award credits for extracurricular experience for unschooler or school dropouts who are subject to compulsory education but have difficulties in getting back to school. It allows students to pursue their study and get recognition of academic achievement.

※ Article 29, Article 96, Article 97, and Article 98-2 of Enforcement Decree Of The Elementary And Secondary Education Act

www.educerti.or.kr

Target

Individuals who do not advance to elementary and middle schools aged under 24 years old.

Features

▶ Students Support Program
- Learning support program which covers various curriculums such as educational and supportive curriculum such as character education and career experience.

▶ Online curriculums
- Provide online learning contents from Open Middle School.

▶ Extra-curricular learning experience
- Award credits and acknowledge learning experiences such as the General Equivalency Diploma, various licenses, and a diploma from alternative schools as academic achievement.

Recognition of Prior Learning

Students can gain recognition for their elementary and middle school diploma through educational credential assessment with licenses, learning experience for regular curriculum, and completion of learning support programs.

Qualification for Recognition

Minimum period for learning
- Elementary school: More than 4 years
- Middle school: More than 2 years

Minimum age
- Elementary school: After March 1st of the year when a student become 13 years old
- Middle school: After March 1st of the year when a student become 16 years old

Class Hours(Required learning hours)
- Elementary school: More than 4,692 hours
- Middle school: More than 2,652 hours

※ Refer to the homepage for the detailed information.

Procedure

Student and relevant institutions
Register students

→ **KEDI and Office of Education**
Check and get approval for the student registration

→ **KEDI and relevant institutions**
Issue a confirmation document for course completion

→ **Student**
Request an educational credential assessment

→ **KEDI and Office of Education**
Issue a educational credential assessment results

Center for Digital Education Research is committed to conducting research and projects to reform education systems, ensure educational opportunity at all levels, and prepare for future education.
Center for Digital Education Research will take a giant leap towards constant development as a central institution that leads future education for all.

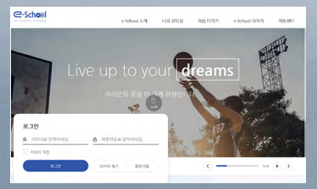
Main site

Center for Digital Education Research
openschool.kedi.re.kr

Open Middle·High School
Middle School www.cyber.ms.kr
High School www.cyber.hs.kr

Online Class
Middle School ms.onlineschool.or.kr
High School hs.onlineschool.or.kr

School for You
Main : s4u.kr
Elementary School : es.s4u.kr
Middle School : ms.s4u.kr
High School : hs.s4u.kr



e-School for Student-Athletes
Middle School ms.e-school.or.kr
High School hs.e-school.or.kr

Learning Support for Unschooling and School Dropouts
www.educerti.or.kr