MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

МОНГОЛ УЛСЫН ШИНЖЛЭХ УХААН ТЕХНОЛОГИЙН ИХ СУРГУУЛЬ

A Learning Management System

at the Cloud Universities

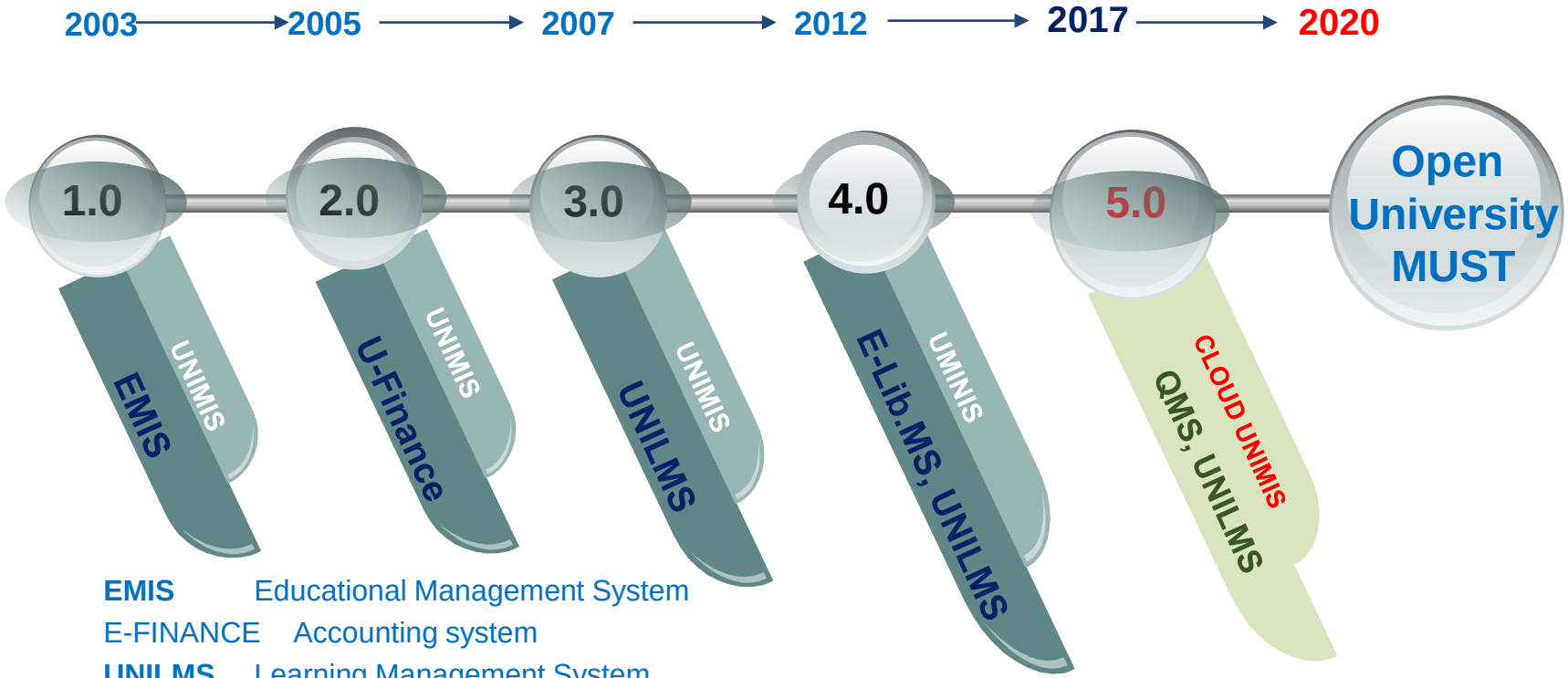
MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
МОНГОЛ УЛСЫН ШИНЖЛЭХ УХААН ТЕХНОЛОГИЙН ИХ СУРГУУЛЬ

1 Management Information System
CLOUD UNiMIS

2 Learning Management System
CLOUD UNiLMS & MOOC

4 Development of E-Lessons

Development phase of Management Information System



EMIS Educational Management System
E-FINANCE Accounting system
UNILMS Learning Management System
E-LibMS Library Management System

Quality Management System

Quality Management System
Top Universities
Ranking

Open University MUST

Cloud UNiMIS

Self evaluation system

UNIMIS 2003

Transnational Research Ecosystem /2015/

U-FINANCE /2005/

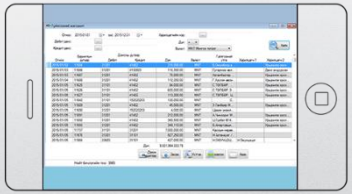
E-Library 2004/12

HRD /2008/

STUDENT'S WEB

www.unimis.edu.mn/student/Login

UNIMIS, UNILMS
2003, 2007



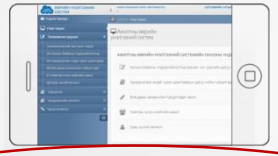
E, U-FINANCE
2005, 2012

E-LIBRARY
2004

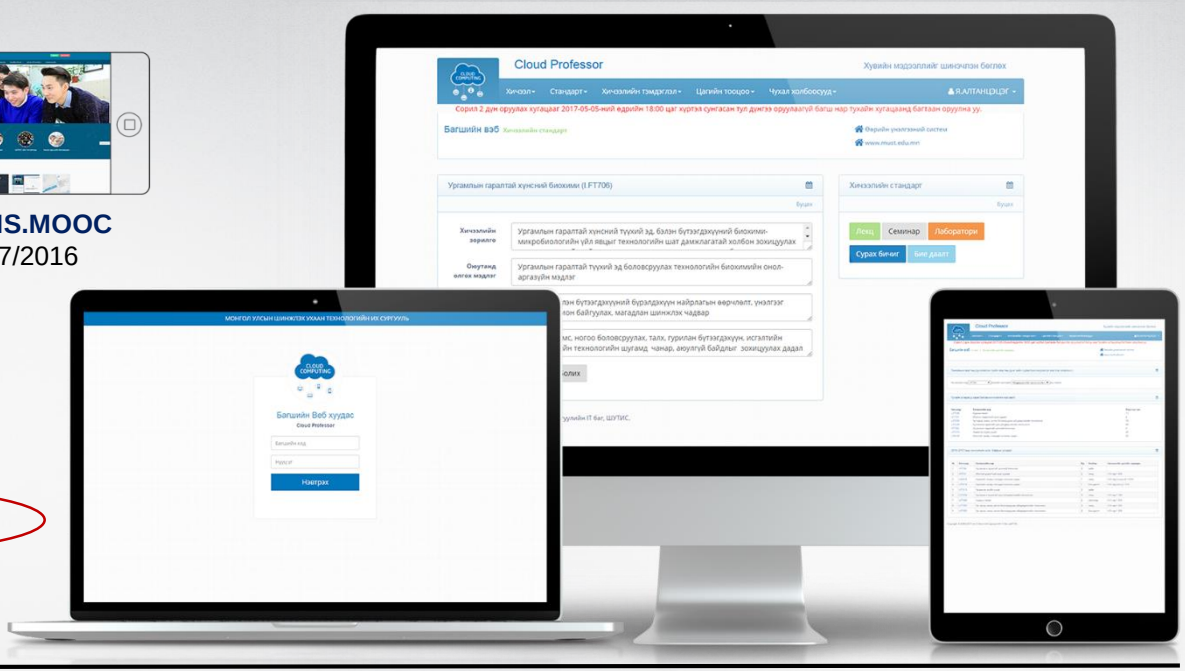
PROFESSOR'S WEB

QMSystem

UNiLMS.MOOC
2007/2016



Self Evaluation System



UNIMIS, UNILMS
2003, 2007

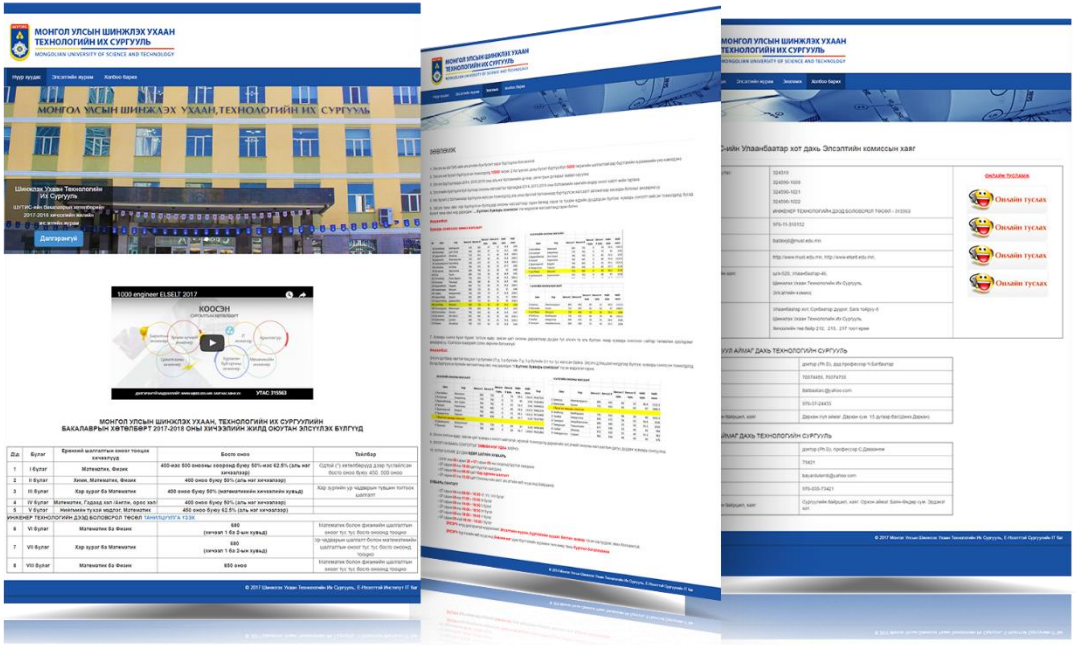
E,U-FINANCE
2005/2012

E-Library
/2012/

Transnational Research
Ecosystem
/2015/

HRD
2011

ON-LINE ADMISSION SYSTEM

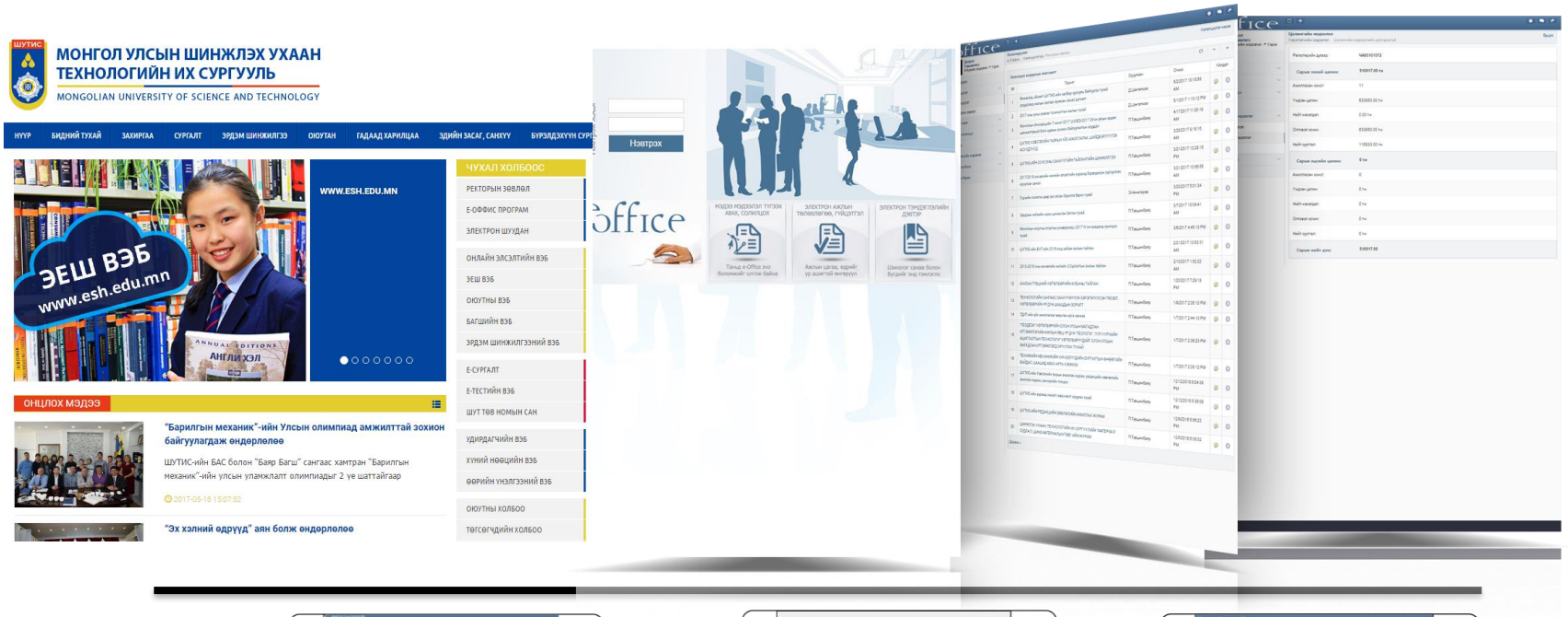


UNIMIS
2003

Education Evaluation
center

E-PAYMENT 2009

E-OFFICE SYSTEM

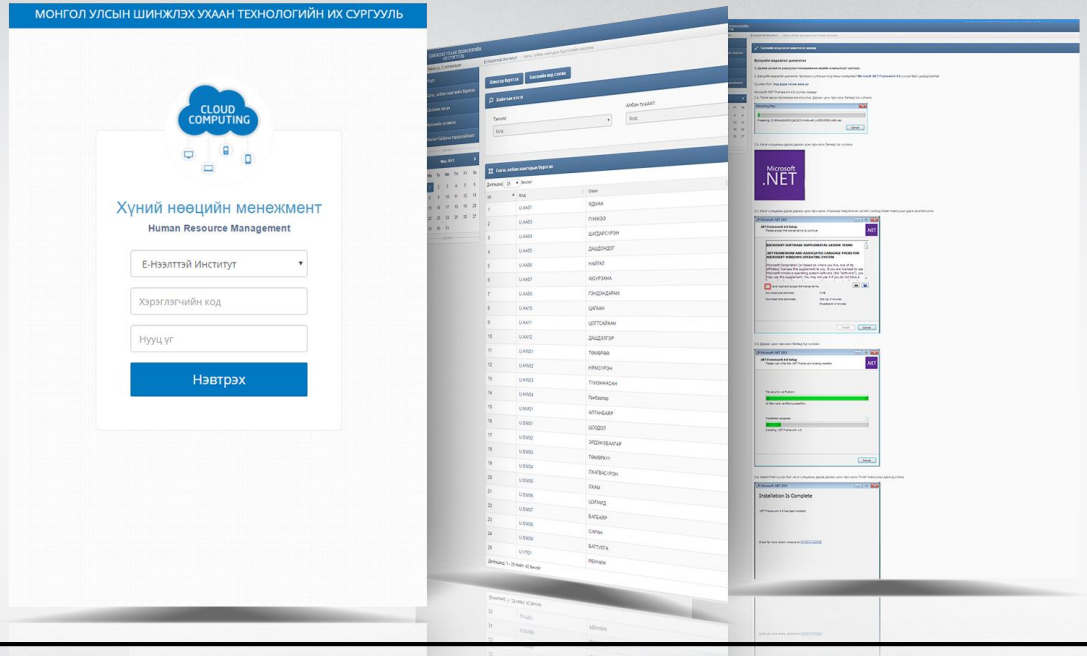


UNIMIS
2003

U-FINANCE
2012

HRD
2012

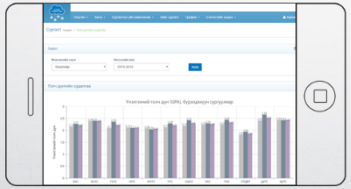
HUMAN RESOURCES DEVELOPMENT SYSTEM



Иргэний бүртгэлийн газар

UNIMIS 2003

Эрдэм шинжилгээний вэб



Удирдагчийн вэб

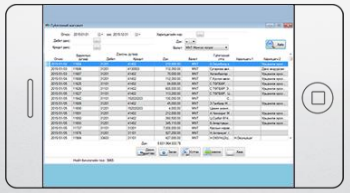
SELF EVALUATION SYSTEM - KEY PERFORMANCE INDICATORS /KPI/

sas.unimis.edu.mn/login

UNIMIS 2003

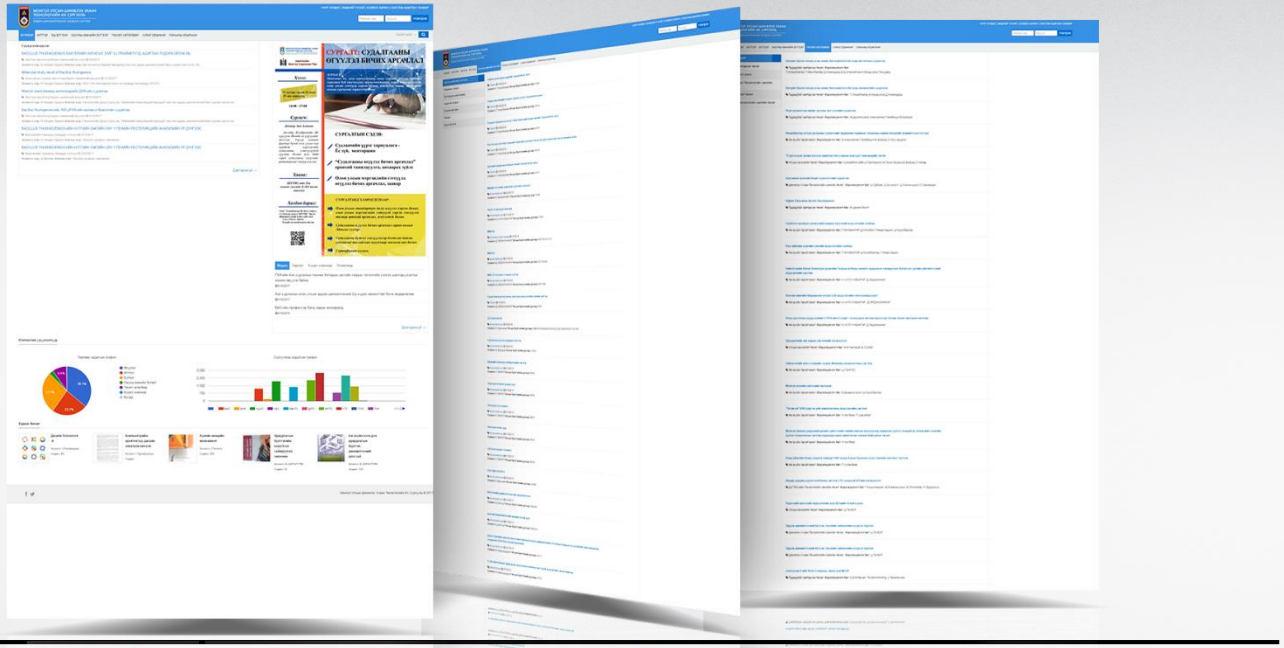
HRD

Transnational Research Ecosystem



U-FINANCE 2012

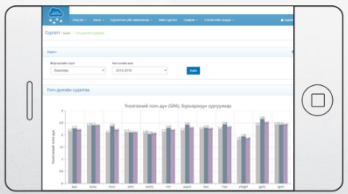
TRANSNATIONAL RESEARCH ECOSYSTEM SYSTEM



UNIMIS 2003

HRD 2003

UNILMS 2007



QMS 2015

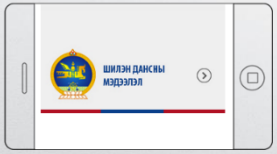
www.unimis.edu.mn/buteel

U-Finance system

Student’s Web

Lecturer’s

QMS



U-Finance

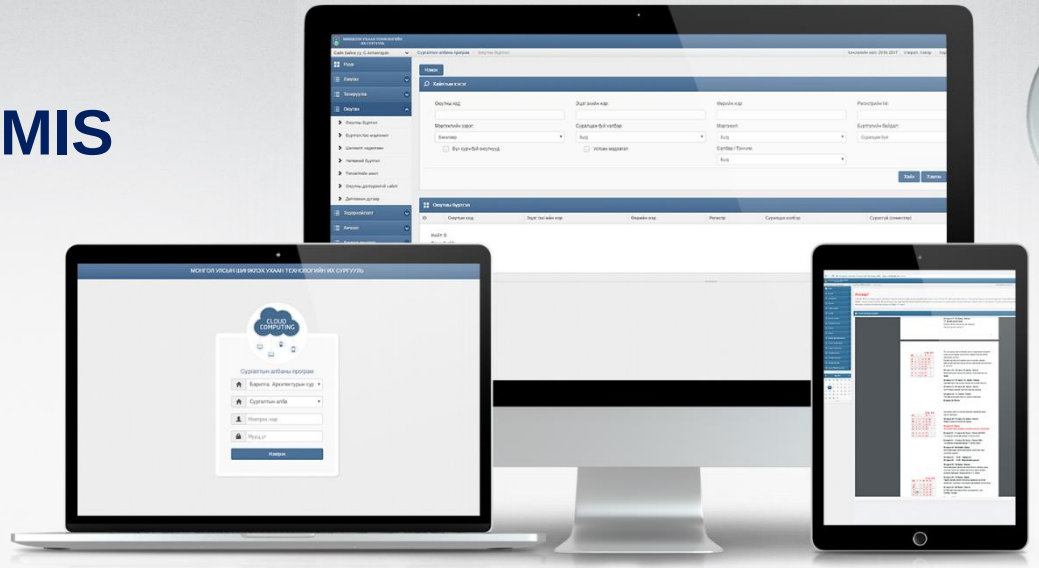
E-Payment

Cloud UNiMIS

Open University MUST

Professor's Web

Student's



Banks

UNILMS

Transnational Research Ecosystem

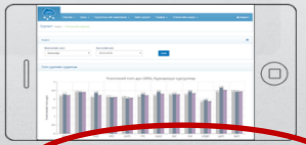
Self evaluation system

E-Test System

Human Recourses System

Education evaluation center

General authority for state registration



QMSystem

U-OFFICE

Alumni Web

Quality Management System /CLOUD UNiMIS/

GOVERMENT POLICY ON ICT IN HIGHER EDUCATION

Rapid economic expansion has led to increased and supply for higher education (HE) in Mongolia. The Government of Mongolia has emphasized the value economic competitiveness. Education leaders and decision makers at all levels still complain that much of the data and information that they the need is not available; not available when needed.

SOME MINISTRIAL ORDERS:

2007

MINISTRIAL ORDER №183

"... To establish inter-universities E-Open School..."

2014

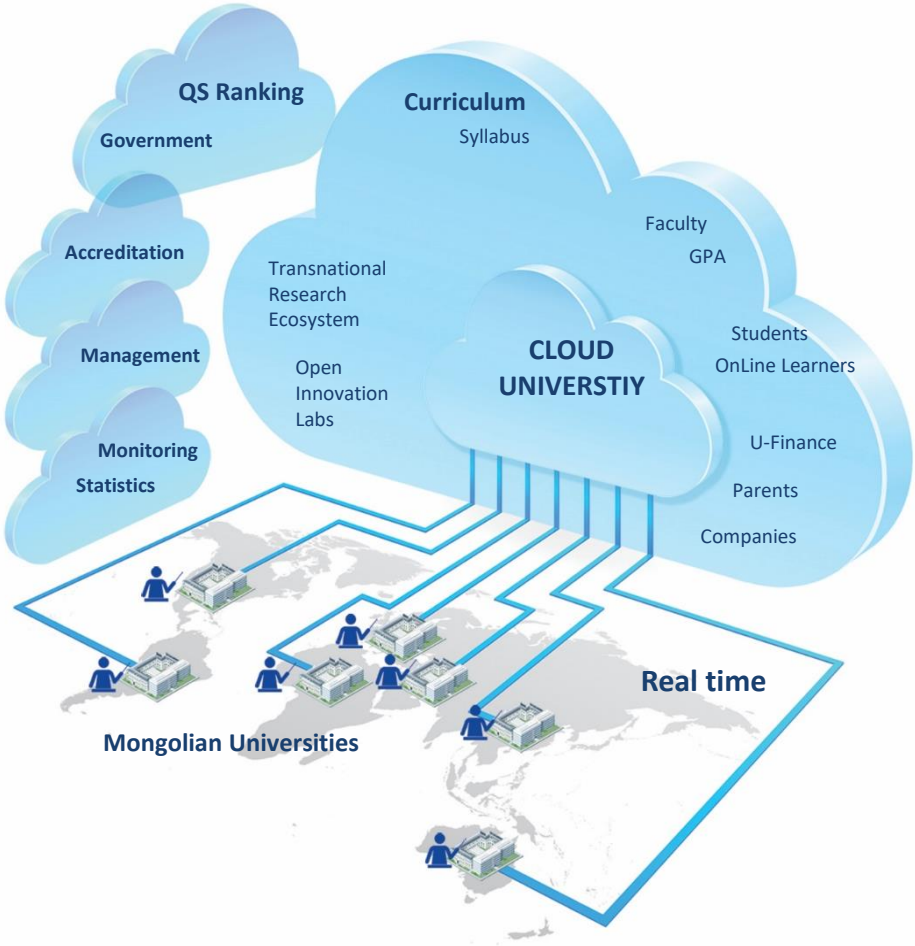
MINISTRIAL ORDER № A/299

"... All higher educational institutions have to use academic credit system.."
"... No less 20% of all courses must be transferred to online courses.."

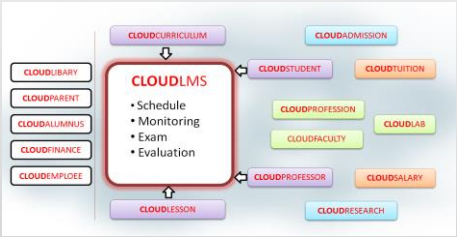
2014

MINISTRIAL ORDER № A/359

"...To establish higher education information system based on Cloud UNIMIS system.."



Convergence of Higher Education Users



Total Solution for Higher Education

About 50 subsystems and 1000 specific automation for university information system

- **UNIMIS (Credit Based System)**
- **UNILMS (Online learning)**
- **MIS (MIS)**
- **SOCIAL (Communication)**
- **CLOUD (Availability)**

15 years experience | New technology

USERS
(via Internet)

1 Government

2 University

35 %

3 Student

45 %

4 Professor

68 %

5 Parents

6 Companies

7 Online Learning

70-80 %

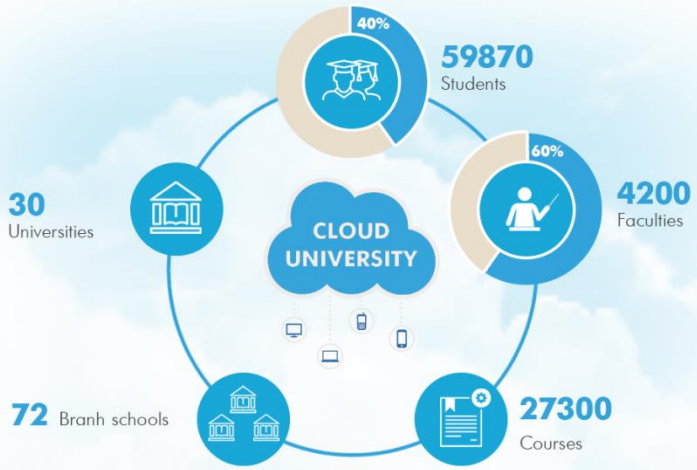
ACTIVITY#5

UNIVERSITY INFORMATION MANAGEMENT SYSTEM

This Background Report of the Global High Level Policy Forum “Online, Open, and Flexible Higher Education for the Future We Want: Policy challenges” in Paris noted down:

Example of Good Practice in Accreditation: “In Mongolia, work in progressing on a Cloud University project which will Integrate academic credit systems with online and distance learning, create online collaboration among all Mongolian universities, and set up social networking of university, students, professors, graduates, parents, and employers”

International Accreditation Organizations



CLOUD UNIVERSITY system is adopted to use for different universities such as technical, medical, financial and etc.

Universities that use Cloud University:

МОНГОЛ УЛСЫН ШИНЖЛЭХ УХААН ТЕХНОЛОГИЙН ИХ СУРГУУЛЬ
MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

ҮНДЭСНИЙ БАТЛАН ХАМГААЛАХЫН ИХ СУРГУУЛЬ

ХУУЛЬ САХИУЛАХЫН ИХ СУРГУУЛЬ

АШУҮИС

МОНГОЛ УЛСЫН СОЁЛ УРЛАГИЙН ИХ СУРГУУЛЬ

ТЭЭВРИЙН ДЭЭД СУРГУУЛЬ

МАНДАХ БҮРТГЭЛ дээд сургууль

ДОРНОД ИХ СУРГУУЛЬ

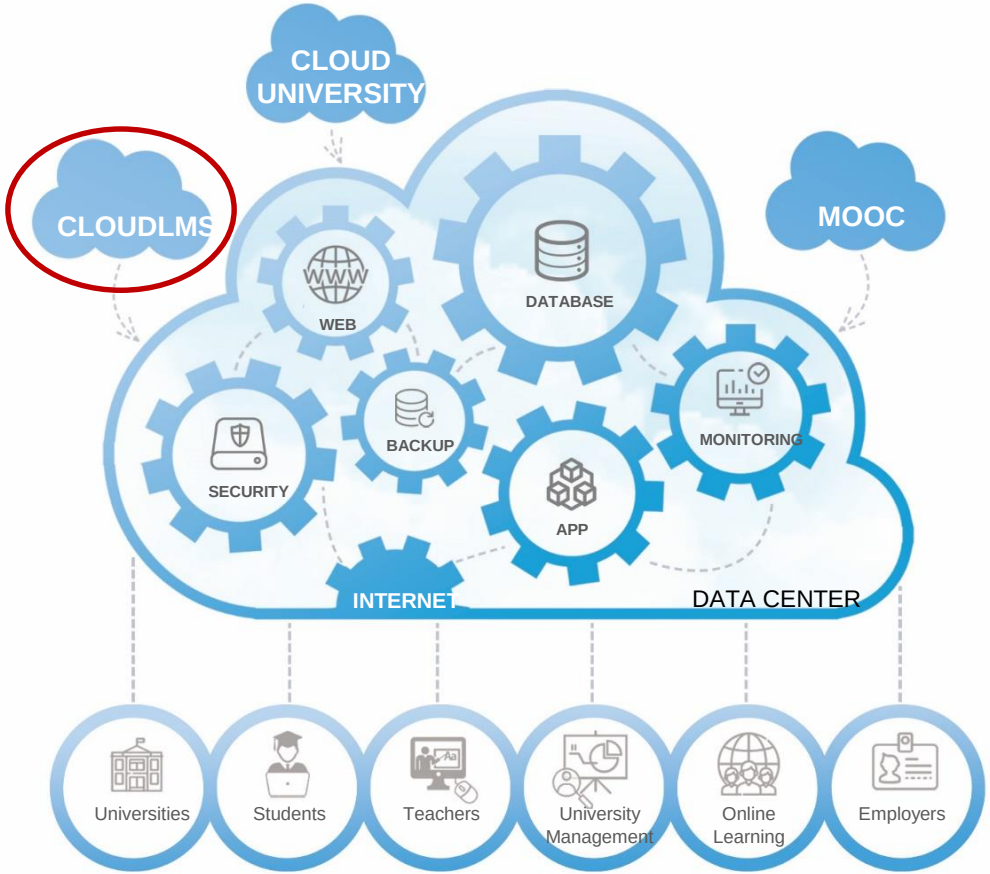
ИХ ЗАСАГ ОЛОН УЛСЫН ИХ СУРГУУЛЬ

ОЛОН УЛСЫН ЭДИЙН ЗАСАГ БИЗНЭСИЙ ДЭЭД СУРГУУЛЬ

ТЕХНИК ТЕХНОЛОГИЙН ДЭЭД СУРГУУЛЬ

САН ДЭЭД СУРГУУЛЬ

ACTIVITY#6



HIGHER EDUCATION INFORMATION INFRASTRUCTURE

All Mongolian Universities share same information infrastructure to exchange university related information, online learning platform, e-contents.

Benefits to share infrastructure: (in case **50** universities)

- Total cost of ownership of network data center and security less **50** times
- System development time **20** years faster
- More e-contents
- **10** times more System improvement requirements

E-LEARNING MANAGEMENT SYSTEM

INTER UNIVERSITIES E-LEARNING MANAGEMENT SYSTEM

For 2007 we started e-learning in Mongolian University of Science and Technology. Based on this system we are ready to serve e-learning in other Mongolian universities. It will be benefit to share best e-contents of best teachers.

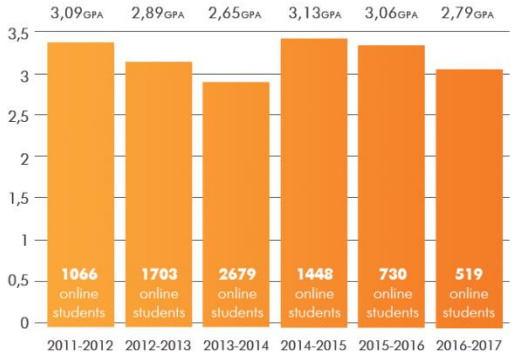
500+ E-Content

29 degree programs

13145 Online students

994 Teachers using online learning system

We established cooperation with foreign online and open universities. And become member of International Online Education Organizations.



Partner Universities:

KOREA NATIONAL OPEN UNIVERSITY

TECHNIKUM WIEN

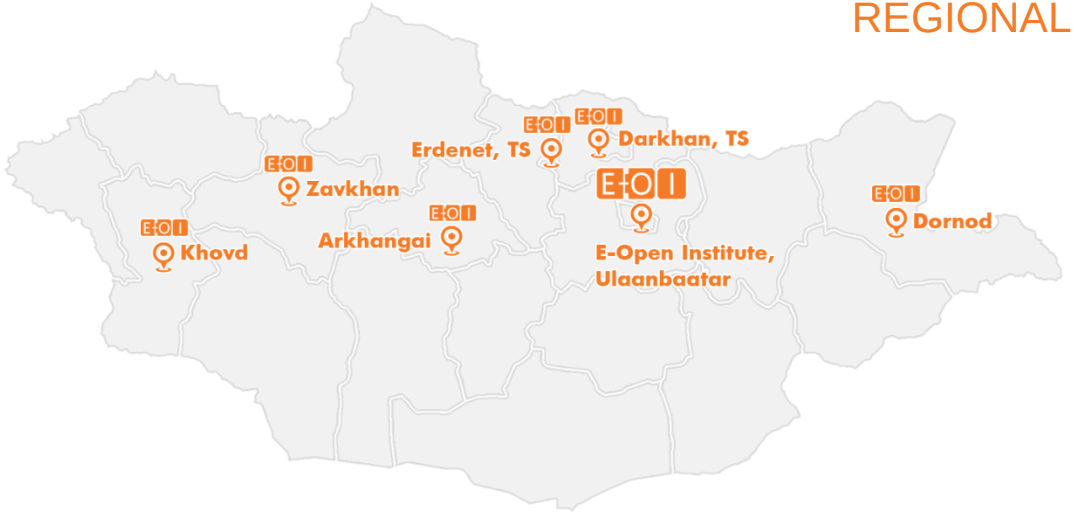
岩手大学 IWATE UNIVERSITY

TAMK TAMPEREEN AMMATTIKORKEAKOULU

ICDE INTERNATIONAL COUNCIL FOR OPEN AND DISTANCE EDUCATION

ASIAN ASSOCIATION OF OPEN UNIVERSITIES

REGIONAL CENTERS OF ONLINE EDUCATION



We provide online education services through Regional Centers:

- Government Employers
- Company Employers
- On-line Learners
- Life Long Learners
  - Professional Certificates
  - Double and Dual degrees

Branch schools:

- Technological school of Darkhan-Uul aimag
- Technological school of Orkhon aimag

Regional centers:

- Regional center of Dornod aimag
- Regional center of Arkhangai aimag
- Regional center of Zavkhan aimag
- Regional center of Khovd aimag

Degree programs:

Road Construction	Geophysics	New Material and Chemistry	Electrical Systems Automation
Civil and Industrials Construction	Geology	Wireless communication	Thermal Process Automation
Telecommunication Management	Mining Management	Food Processing	Computer Science
Information System Management	Linguistics	Food Processing, Services	Medical equipment
Industrial Production Management	Virtual Learning System	Food Processing Technology	Energy System Management
Public Governance Management	Transportation Logistics	Engineering Mathematics	Electric Systems
Tourism Management	Machinery	Non-Organic Technology	Electric Supply
Social Workers	Information Technology	Chemical Technology	Virtual Learning System

On-line education partners:

ЗАСГИЙН ГАЗРЫН ХЭРЭГЖҮҮЛЭГЧ АГЕНТЛАГ ОЮУНЫ ӨМЧ, УЛСЫН БҮРТГЭЛИЙН ЕРӨНХИЙ ГАЗАР

БОЛОВСРОЛ, ШИНЖЛЭХ УХААНЫ ЯАМ ВОЛОВСРОЛЫН ҮНЭЛГЭЭНИЙ ТӨВ

МЭРГЭЖЛИЙН ХЯНАЛТЫН ЕРӨНХИЙ ГАЗАР

"ЭРДЭНЭТ ҮЙЛДВЭР" ХХК

Засгийн газрын хэрэгжүүлэгч агентлаг ГЭР БҮЛ, ХҮҮХЭД, ЗАЛУУЧУУДЫН ХӨГЖЛИЙН ГАЗАР

МОНГОЛЫН СУРАГЧДИЙН ХОЛБОО

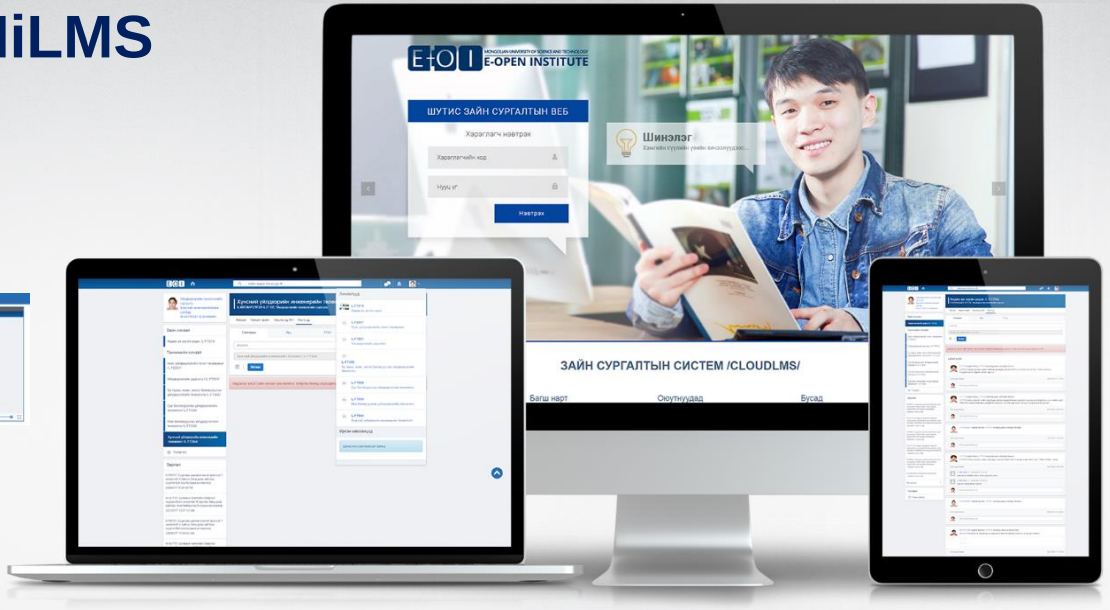
SORTWARE UNIVERSITY

ISO International Organization for Standardization

Learning Management System
“CLOUD Uni LMS”

Cloud UNiLMS

Cloud UNiLMS guidelines



UNIMIS
/2003/

Transnational Research Ecosystem
/2015/

MOOC
/2016/

E-Library
/2012/

E-Test
/2004/

Standard for E-Lessons

FUNDAMENTAL INFORMATION TECHNOLOGY KHOWLEDGE FOR EVERYONE

Information Technology policy is high priority of every nation. Last 3 year we are worked to redesign the Mongolian IT education program according to the international standard. Our goal is to educate basics of modern IT knowledge for everyone.

All first year students of **7** branch schools of MUST

58 Degree program

9860 students are learned by new Standard

19 lecturers are working to teach a new course

Online courses are developed

In 2016 year Mongolian National Standard on “Fundamental Knowledge of Information Technology” is approved. We are finished the preparation to teach to everyone.

International organizations and standards:

National Plan for Educational Use of Information and Communications Technology

JITEC Japan Information-Technology Engineers Examination Center

TOPCIT Test Of Practical Competency in IT

IT Passport

ICDL

ECDL

E-LIBRARY SYSTEM

www.must-library.edu.mn

UNIMIS
2003

STUDENT'S WEB
2003

PROFESSOR'S WEB
2003

E-TEST

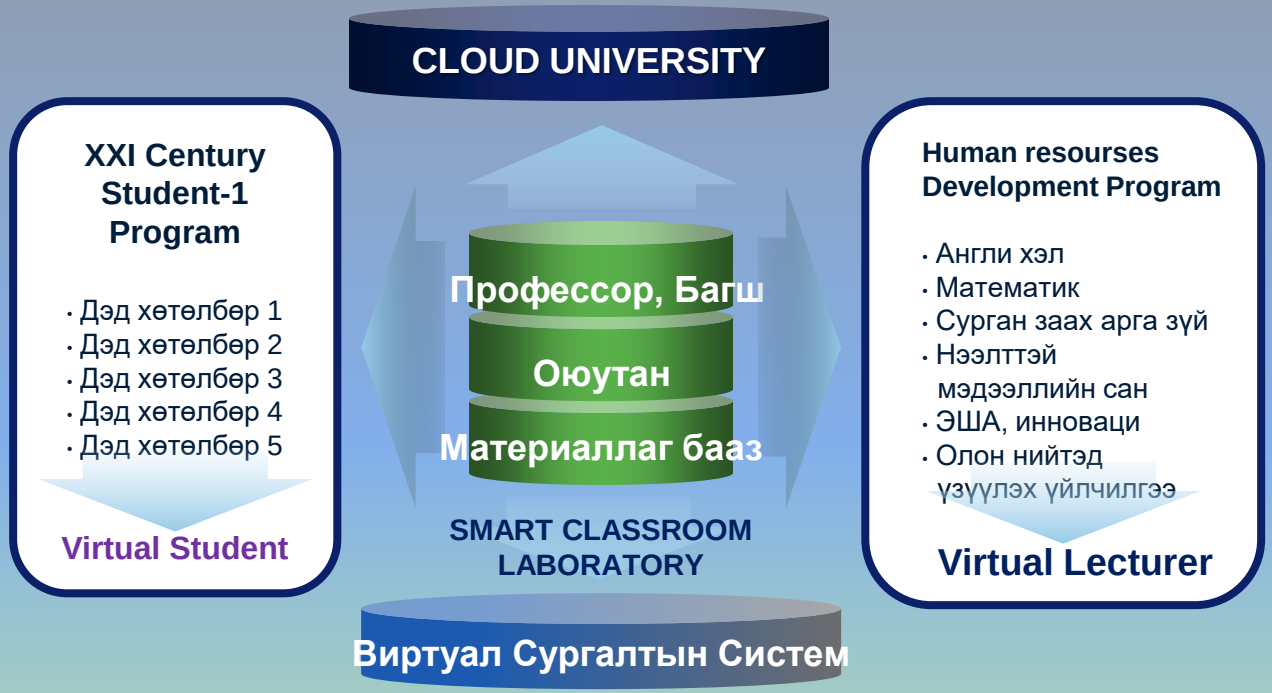
www.testcenter.edu.mn

UNIMIS
2003

UNIVERSITY
ENTRANCE EXAM
SIMULATION

UNILMS
2007

Master & Doctoral degree program: Virtual Learning System: Virtual Lecturer, Virtual Engineer



MOOC.U-Learning Program /2014-2017/

MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
E-OPEN INSTITUTE

International On-Line Conference IMT 2015, IMT 2016, IMT 2018

ЗАСГИЙН ГАЗРЫН ТОХИРУУЛАГЧ АГЕНТЛАГ
МЭРГЭЖЛИЙН ХЯНАЛТЫН
ЕРӨНХИЙ ГАЗАР

ТҮМНИЙ ТӨЛӨӨ
ТӨРИЙН ХЯНАЛТ

Life Long Learning Platform

www.esh.edu.mn

INTEGRATED PLATFORM FOR ONLINE EDUCATION

UNIVERSITY ENTRANCE EXAM SIMULATION AND EVALUATION SYSTEM

- Number of courses **6**
- Number of test questions **7871**

www.mooc.edu.mn

ONLINE LEARNING MANAGEMENT SYSTEM

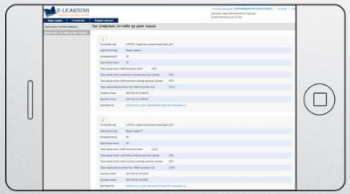
- Number of courses **232**
- Number of e-content **852**

MOOC MONGOLIAN ONLINE OPEN COURSES

- Number of courses for higher education **277**
- Number of courses for life-long learning **92**
- Number of courses for general education **3**

www.esh.edu.mn

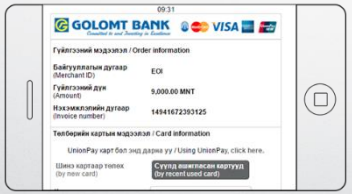
UNIVERSITY ENTRANCE EXAM SIMULATION AND EVALUATION SYSTEM



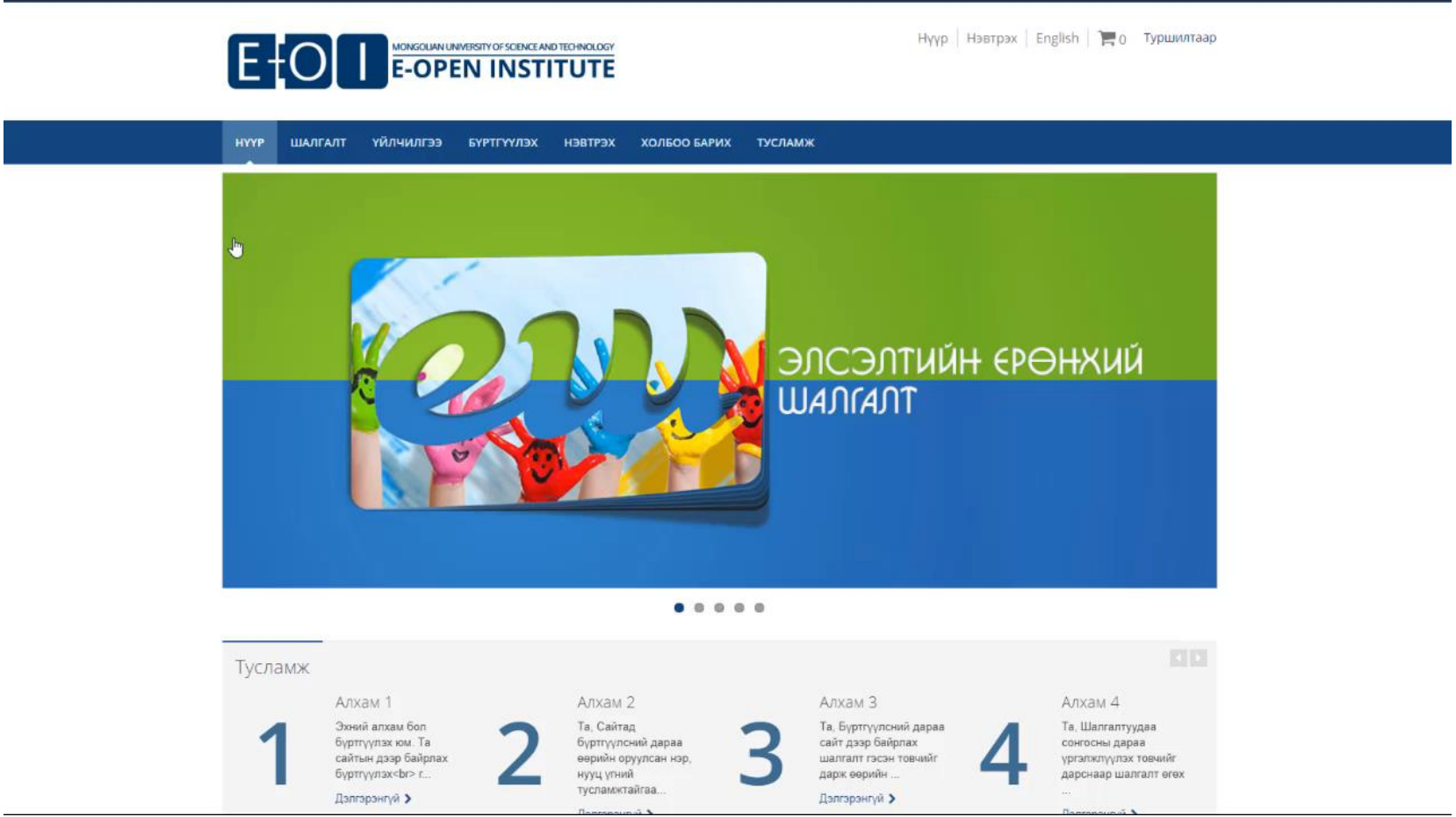
e-Test /2004/

Online Admission /2009/

MOOC /2016/



e-Payment 2009/2015



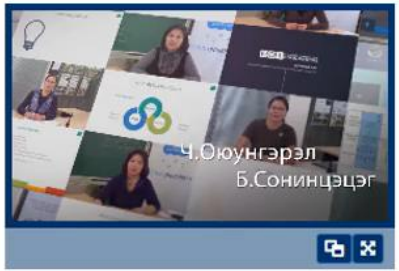
www.esh.edu.mn

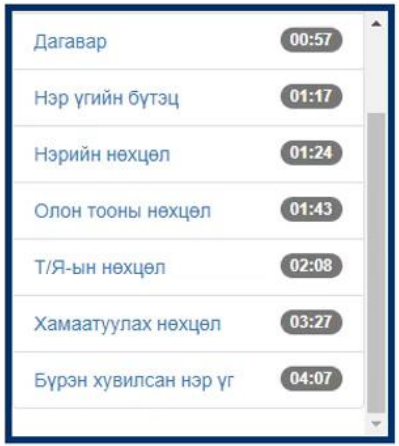
UNIVERSITY ENTRANCE EXAM SIMULATION AND EVALUATION SYSTEM

www.esh.edu.mn

UNIVERSITY ENTRANCE EXAM SIMULATION AND EVALUATION SYSTEM

МОНГОЛ УЛСЫН ШИНЖЛЭХ УХААН ТЕХНОЛОГИЙН ИХ СУРГУУЛЬ
Е-НЭЭЛТТЭЙ ИНСТИТУТ





www.esh.edu.mn

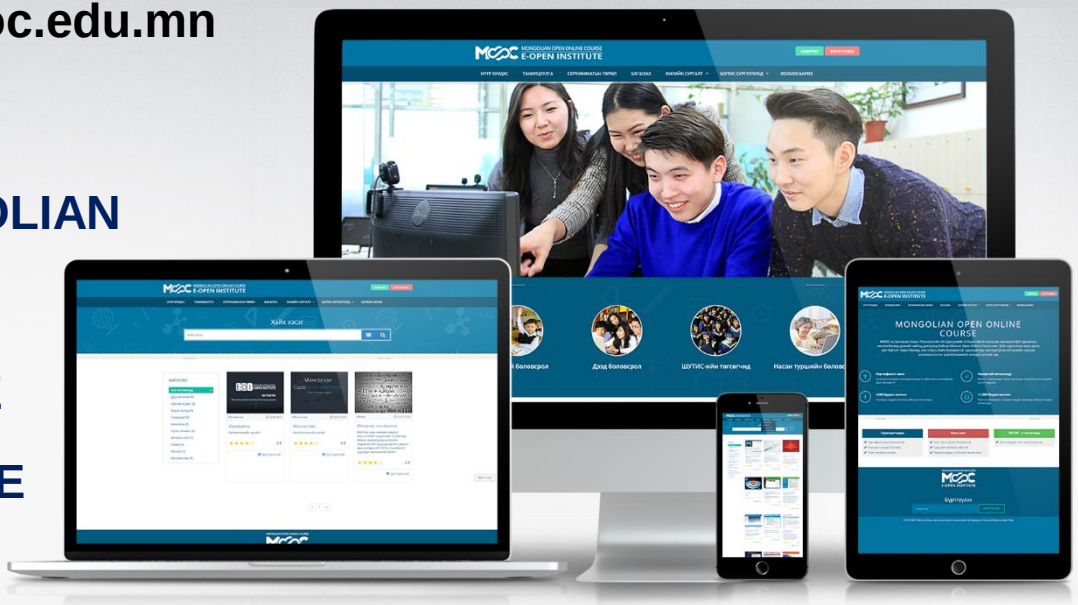
UNIVERSITY ENTRANCE EXAM SIMULATION AND EVALUATION SYSTEM

Хичээлийн ерөнхий агуулга

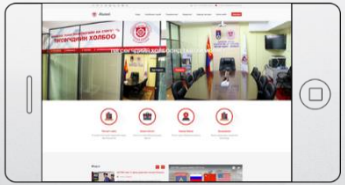
Компьютерийн хэрэглээ 1

www.mooc.edu.mn

MONGOLIAN OPEN ONLINE COURSE



UNIMIS
2003



Alumni Web
2012

UNILMS
2007

e-Payment
2009/2015

ALUMNI WEB

alumni.edu.mn

UNIMIS
2003

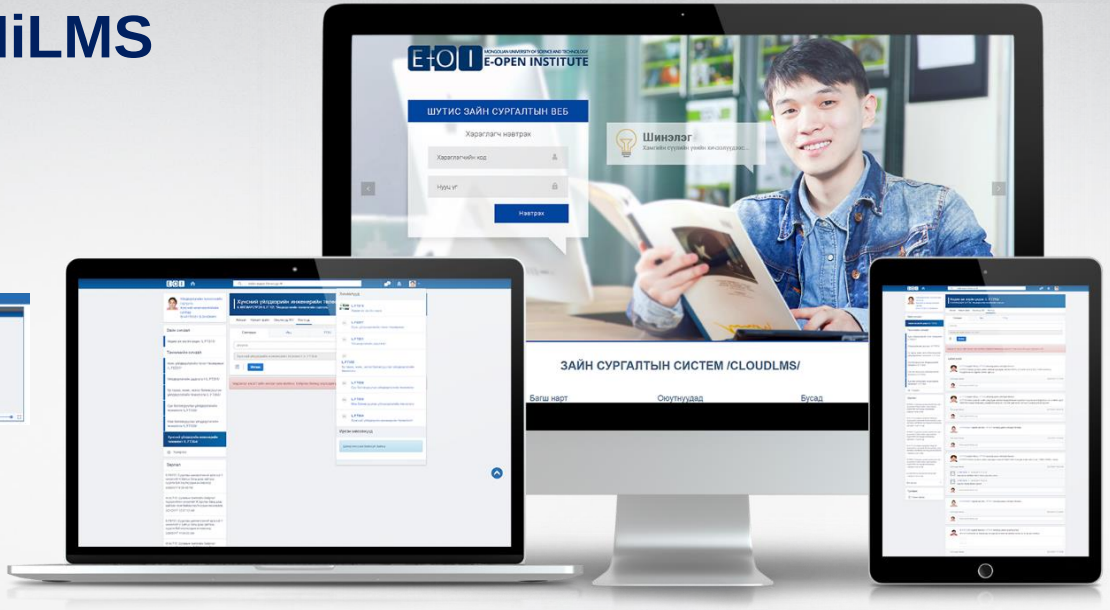
Transnational Research Ecosystem
2015

MOOC
2016

Human resources development 2012

Cloud UNiLMS

Cloud UNiLMS guidelines



UNIMIS
/2003/

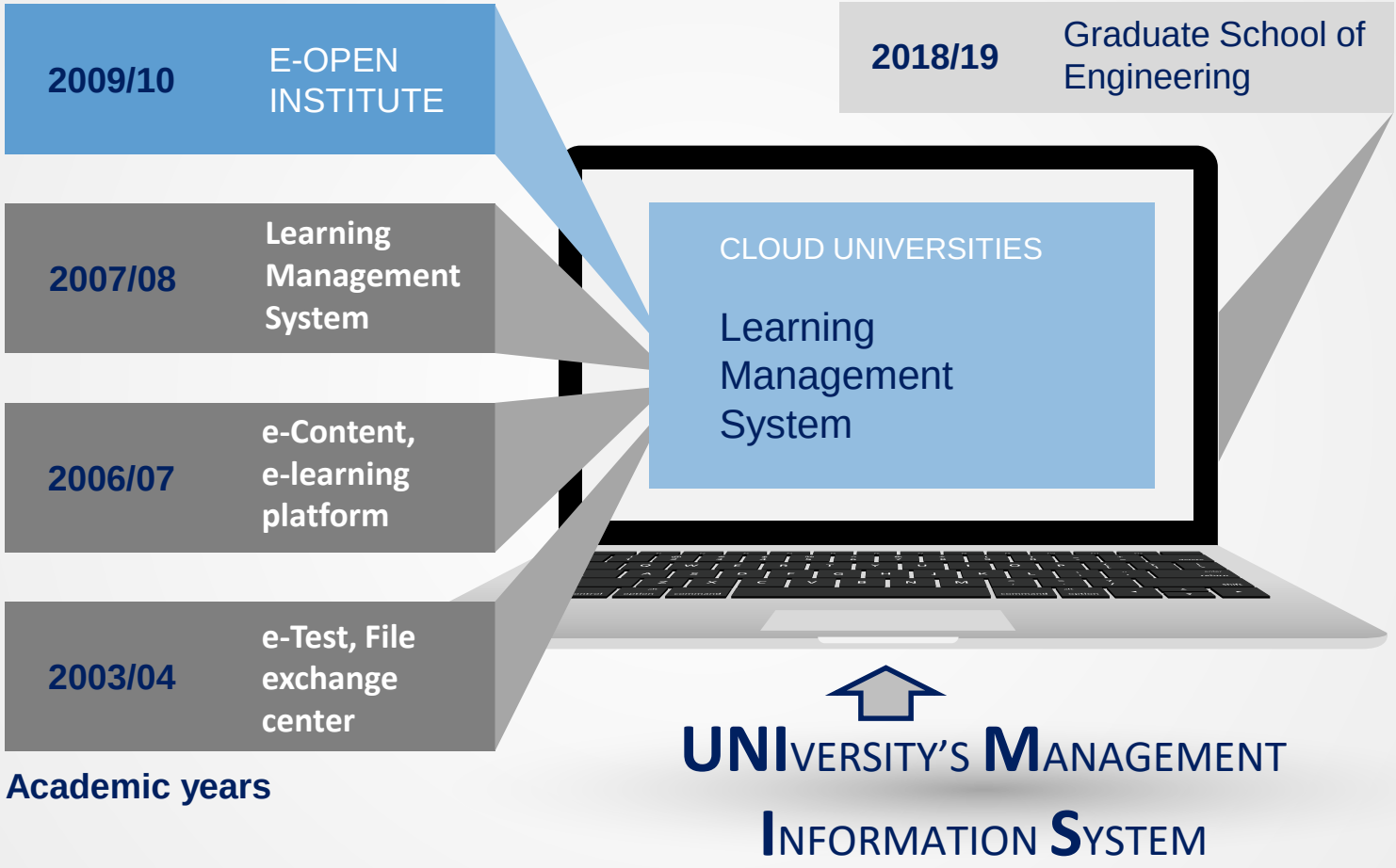
Transnational Research Ecosystem
/2015/

MOOC
/2016/

E-Library
/2012/

E-Test
/2004/

Development phase of CLOUD LMS



FINLAND
ТТ-9375 МОН: ШИНЖЛЭХ УХААН, ТЕХНОЛОГИ, ИННОВАЦИ ХӨГЖҮҮЛЭХ ТОГТОЛЦООГ БЭХЖҮҮЛЭХ
Шинжлэх ухаан, технологи, инновацийн судалгааны болон мэдээллийн дэд бүтэц

INTERNATIONAL RESEARCH JOINT PROJECT

FINLAND
Tampere University of Applied Science /TAMK/:
Joint On-Line course: Sustainable Development and Mining
21st Century Educators from Finland, Emerging Trends in Education
a collaborative Online Learning program in English

EUROPIAN UNION
ERASMUS+Program
Multi-National Project GREB:
Modernization of the Curricula in sphere of smart building engineering
Green Building
ERASMUS+Program
PAWER

EUROPIAN UNION
ERASMUS+: Higher Education-International Capacity Building
SMARTCITY: Innovative approach towards a Master Program on Smart Cities technologies /2018-2021/

MONGOLIA
E-Open Institute, MUST
Mongolian Universities:
“e-Content developing of Mongolian Open On-Line Courses /MOOC/

KOREA
Korean National Open University:
Joint Project KNOU & MUST: “The On-line courses developing for Life Long Learning /LLL/
UNITWIN Program: Sustainable Development in Education
Distance Learning Efficiency /2019-2023/

CARITAS Czech
Санхүүжилт: European Union and Czech Development Agency

TUDelft Netherlands: Барилгын хог хаягдлыг дахин боловсруулах

MONGOLIA
Projection Mapping
ЧОЙЖИН ЛАМЫН СҮМ МУЗЕЙ

INTERNATIONAL RESEARCH JOINT PROJECT

International Council for Open and Distance Education

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ICDE members - institutions

ICDE has members in every region across the world. There are 156 institu network.

Academy of Business Management - Switzerland

ADDISCO - Norway

MIT School of Distance Education - India

Mongolian University of Science and Technology - Mongolia

National Open University - Taiwan

National Open University of Nigeria (NOUN) - Nigeria

North-West University - South Africa

Norwegian Agency for Digital Learning in Higher Education - Norway

INTERNATIONAL COUNCIL FOR OPEN AND DISTANCE EDUCATION

ICDE Quality Reviews process

A Quality Review is estimated to take between 6 and 10 calendar months. In special agreed cases the timeframe might be shortened. Reviews will primarily be carried out in the English language and the cost for of the review is met by the institution.

Below is a summary of the steps during a Quality Review.

1. Start (month 1 - 2)
a. An institution requests a Quality Review.
b. The ICDE Secretariat checks the eligibility of the applicant.
c. Communication, clarification of practical matters between the Secretariat and the institution.
d. A draft contract is negotiated.
e. The Secretariat presents anonymized profiles of proposed members of the reviewer team, based on the nature, situation and needs of the institution.
f. The review team is established by ICDE in consultation with the institution and contracts with the reviewers are negotiated with the ICDE Secretariat.
g. The contract between the institution and ICDE is finalized and signed.
h. Consultation between the institution and ICDE takes place on an ongoing basis.

2. Institutional self-evaluation (month 2 – 6)
a. ICDE receives requested self-evaluation documents.
b. ICDE receives a digest of the information set published by the institution concerning its management of quality and standards.

INTERNATIONAL COUNCIL FOR OPEN AND DISTANCE EDUCATION

The ICDE reports series

Quality models in online and open education around the globe: State of the art and recommendations

Authors: Ebba Ossiannilsson, Keith Williams, Anthony F. Camilleri, and Mark Brown, coordinated by EADTU

May 2015

Executive Summary

Asian Association of Open Universities

AAOU
Asian Association of Open Universities

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The 31st Annual Conference of the Asian Association of Open Universities

AAOU2017

Open University for Inclusive and Equitable Quality Education

27 - 29 September 2017, Royal Ambarrukmo Hotel Yogyakarta, Indonesia

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Abstract submission deadline extended 30 June 2017

- Anadolu University, Turkey
- Arab Open University, Kuwait
- Bircham International University, Spain
- Caritas Institute of Higher Education, China
- Charles Sturt University, Australia
- Don Mariano Marcos Memorial State University (DMMMSU) Open University System, Philippines
- Islamic Online University, Gambia
- Mahatma Gandhi University, India
- Maulana Azad National Urdu University, India
- Mongolian University of Science and Technology, Mongolia

UPOU Exchange Fellowship

(Theme for 2017: *ASEAN Education in the Era of Openness*)

The UP Open University (UPOU) is offering a short-term Fellowship program to facu
and staff from different universities locally and abroad to provide a platform for capac
building and establishment of sustainable partnerships as well as fostering knowled
exchange on ODel.

The terms and conditions of the Fellowship are as follows:

1. **Period of the Programme**
   01-30 November 2017
2. **Number of Fellowships**
   Three (3) persons from different institutions and from different countries per year

- School of Professional and Continuing Education Kong, China
- St. Paul University Philippines, the Philippines
- Universiti Sains Malaysia, Malaysia
- University of Mumbai, India

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Belgium
Brazil
Canada
China
Colombia
Costa Rica
Denmark

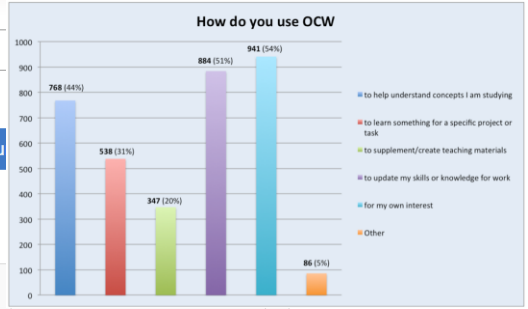
Members in Mongolia

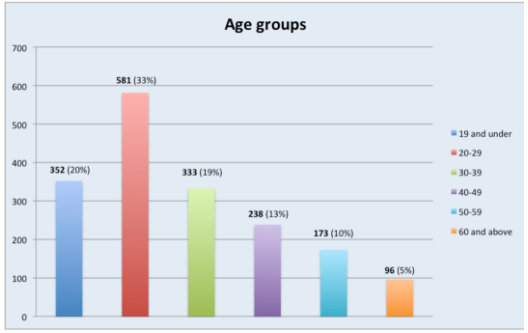
E-Open Institute, Mongolian University Of Science and Technology

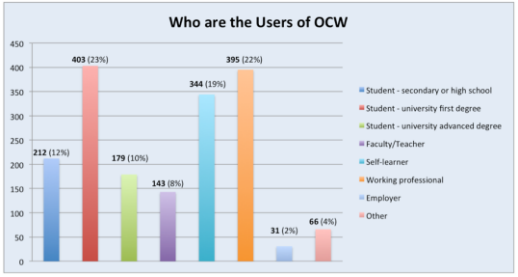
E-Open Institute, Mongolian University Of Science and Technology

E-OI was established in 2010. The vision of E-OI is to assist Mongolian University of Science and Technology as an institution of learning and to provide academic services to people in need of higher education but who are outside the reach of our traditional education programs in their current form. The mandate of the E-OI is to widen our scope as the Mongolian Open Institute in the future.

Main Website: www.must.edu.mn
OCW Website: www.emust.edu.mn







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TAMPERE UNIVERSITY OF APPLIED SCIENCES

Tampere University of Applied Science /TAMK/

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- Degrees in Finnish
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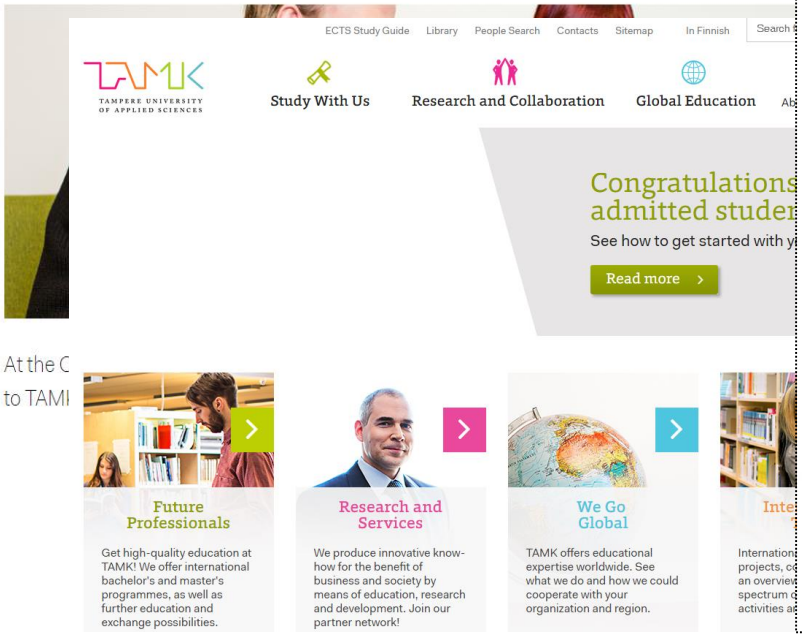
  - Educational Provision
  - Open Path
  - Practical Information
  - Frequently Asked Questions
- Exchanges & Double or Joint Degrees



University of Applied Sciences Technikum Wien

FACHHOCHSCHULE TECHNIKUM WIEN

МОНГОЛ УЛСЫН ШИНЖЛЭХ УХААН ТЕХНОЛОГИЙН ИХ СУРГУУЛЬ
MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

LETTER OF INTENT
between
UNIVERSITY OF APPLIED SCIENCES
FACHHOCHSCHULE TECHNIKUM WEIN
AUSTRIA
and
MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
MONGOLIA

The two institutions, wishing to enhance relations and to develop academic and cultural interchange in the areas of education, research, and other activities, agree to cooperate and work together toward the internationalization of higher education.

The areas of cooperation will include any program offered at either institution which is determined to be desirable and feasible for the achievement of these objectives.
However, any specific program will be subject to the availability of funds and the mutual agreement of the partners. Such programs may include:

a. Exchange of faculty members
b. Exchange of students
c. Curriculum Development
d. Joint Degrees
e. Joint research projects
f. Joint conferences
g. Joint cultural programs
h. Distance learning program

Korea National Open University

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KNOU New

9th KNOU-OUC-OUJ International Seminar" from May 23 to 24, 2019. The seminar was held under the theme of "Transforming Open Educati...

[2019-06-07]

MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

МОНГОЛ УЛСЫН ШИНЖЛЭХ УХААН ТЕХНОЛОГИЙН ИХ СУРГУУЛЬ

CLOUD UNIVERSITY

GO TO INNOVATION