



Overview of **KOREA TECH**

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01 KOREATECH Facts

A photograph of four young adults (three women and one man) sitting cross-legged on a brick ledge outdoors. They are smiling and looking towards the camera. The background shows green trees and a building under a grey sky. The image is partially overlaid with a blue gradient on the right side.

KOREATECH was established
by the Korean Ministry of Labor in 1991
to foster **TVET teachers** and **practical engineers**
based on the educational philosophy of
“**Seeking truth from facts**”

300 +
Professors

180+
Administrators

4,300+
Undergraduate students

480+
Graduate students

130+
International students

KOREATECH Missions

1991

**Fostering
TVET teachers**

(4 Year Regular Curriculum)

8 departments
240 freshman

1998

Fostering TVET
teachers
(4 Year Regular Curriculum)

Established HRDI
(Human Resources
Development Institute)
**In-Service Training
Programs for
Incumbent
Vocational Training
Instructors**

1999

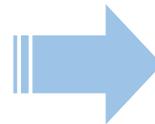
Fostering TVET
& **HRD Professionals**
(4 Year Regular Curriculum)

2006

A bridge to reduce
technology gap between
major enterprises and
SMEs

**Established
the Advanced
Technology
Education Center
Opened at
The 2nd campus**

TVET teachers



Practical engineers
& HRD professionals

To be able to meet the needs both TVET & industry

KOREATECH Missions

2009

Providing labor & Employment Programs

Merged with the former Korea Labor Education Institute

2014

Providing e-learning and VT programs

Opened e-koreatech (Online education System)

2015

Opened KSQA (Korean Skills Quality Assurance)

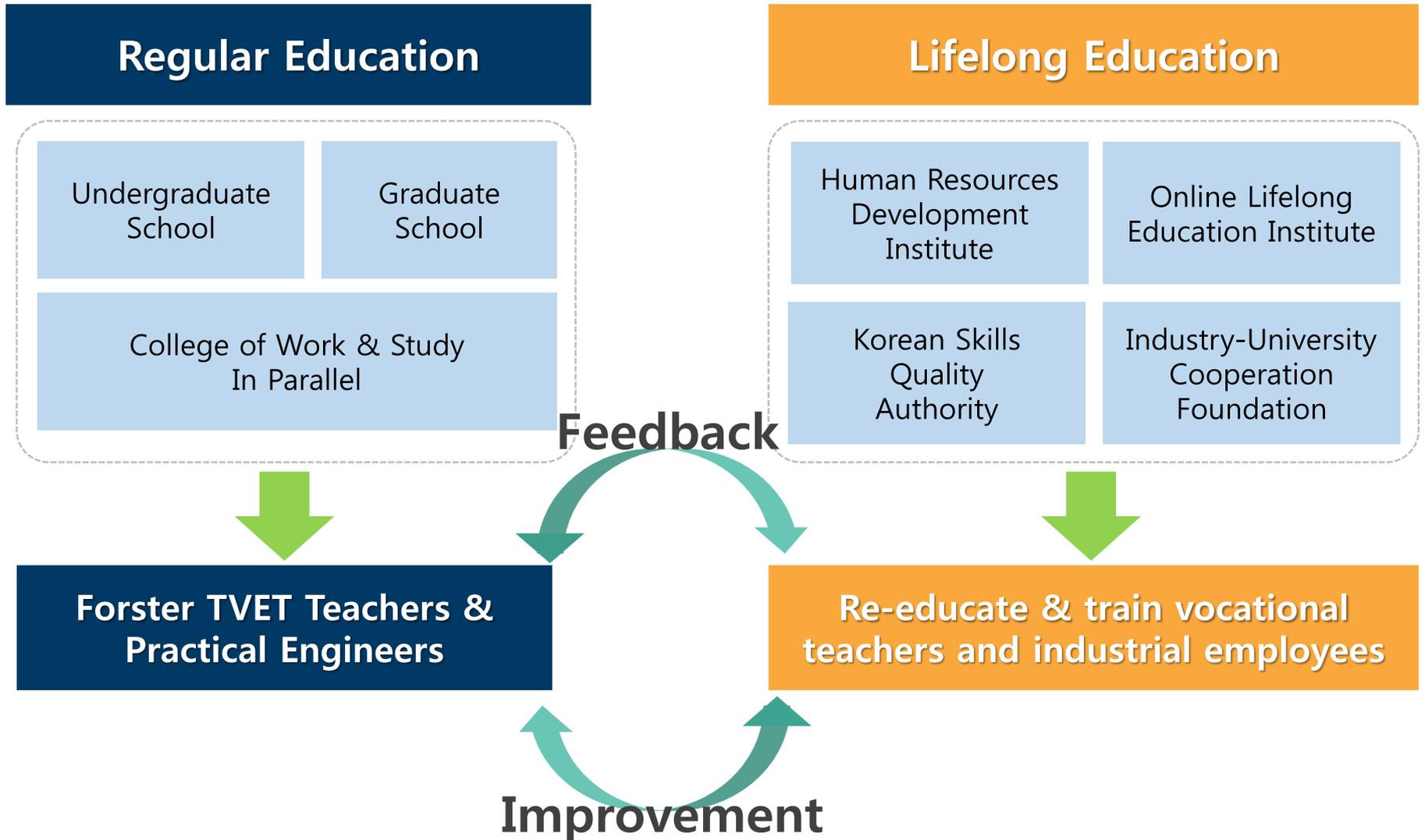
2016

Opened Lifelong Education Institute & College of Work and Study in Parallel



02 KOREATECH Education

KOREATECH two main education systems



Undergraduate (8 Schools & 1 Department)

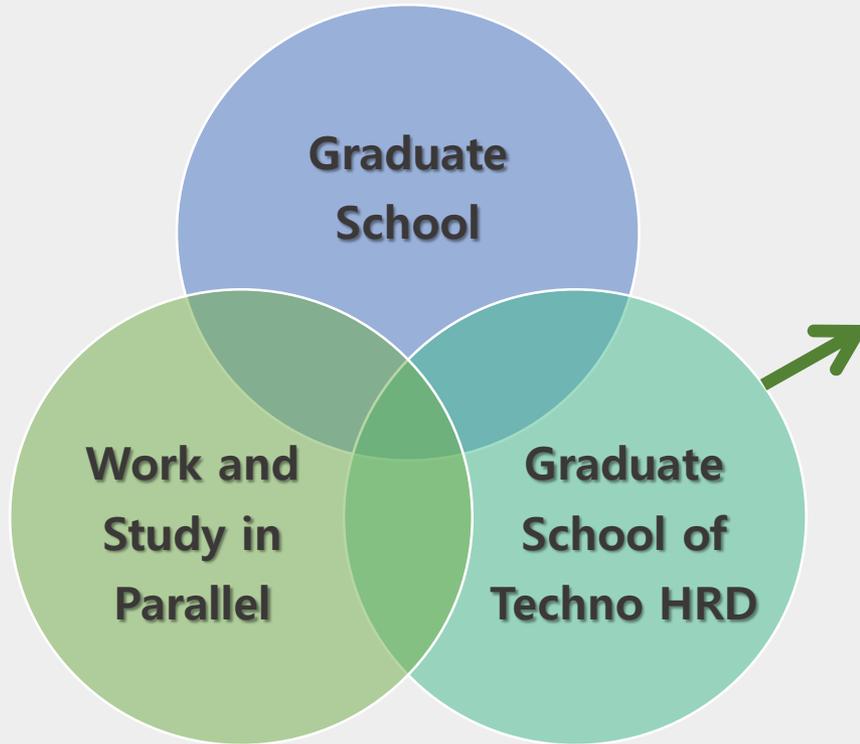
Mechanical Engineering	Mechatronics Engineering	Electrical, Electronics Communication Engineering	Computer Science Engineering	
<ul style="list-style-type: none"> • Automobile, Environment & Energy • Information Applied Systems • Intelligent Systems 	<ul style="list-style-type: none"> • Mechanical Eng. • Mechatronics Eng. • Electrical, Electronics Communication Eng. • Computer & Science Eng. 	<ul style="list-style-type: none"> • Electrical Eng. • Electronics Eng. • Information & Communication Eng. 	<ul style="list-style-type: none"> • Computer H/W • Computer S/W • Smart IT 	
Design & Architectural Engineering	Energy, Materials & Chemical Engineering	Industrial Management	Liberal Arts	Dept. of HRD
<ul style="list-style-type: none"> • Industrial Design Eng. • Architectural Eng. 	<ul style="list-style-type: none"> • Energy, New Materials Eng. • Applied Chemical Eng. 	<ul style="list-style-type: none"> • Human Resources Management • Technology Management 		

Work and Study Parallel (3 Department)

- Electromechanical Convergence Eng.
- Mechanical Design Eng.
- Small and Medium Enterprise Management; SME

Z

Graduate (Master's & Doctorate Degree)



New plan in 2018: Open to master program for TVET Teachers

Programs | Mechanical + HRD
ICT

Term Periods | 1 year

KOREATECH Education



- **50%** Theory + **50%** Experiments & Training
- Capstone Design & Graduation Project
- IPP (Industry Professional Practice) System

KOREATECH Achievements

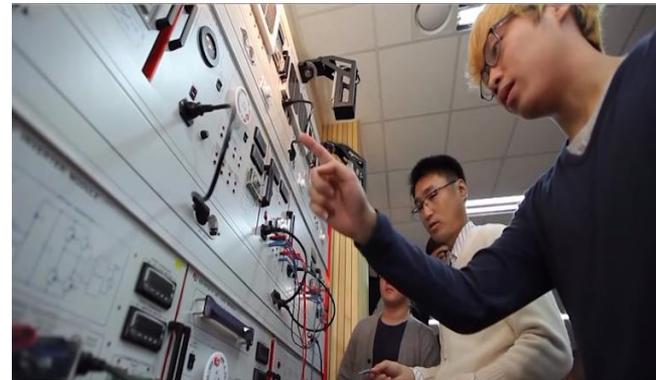


Korean Universities Review by JoongAng Daily, 2016

- Ranked **No.1** in Education-Oriented Universities (consecutively ranked number 1 for **8 Years**)
- Job Placement Rate of 4-year University Graduates **No.1 nationwide, at 86.6%** (2017, Higher Education in Korea)
- Ranked **one of the top tier Universities in** Engineering Universities (by JoongAng Daily, 2016)

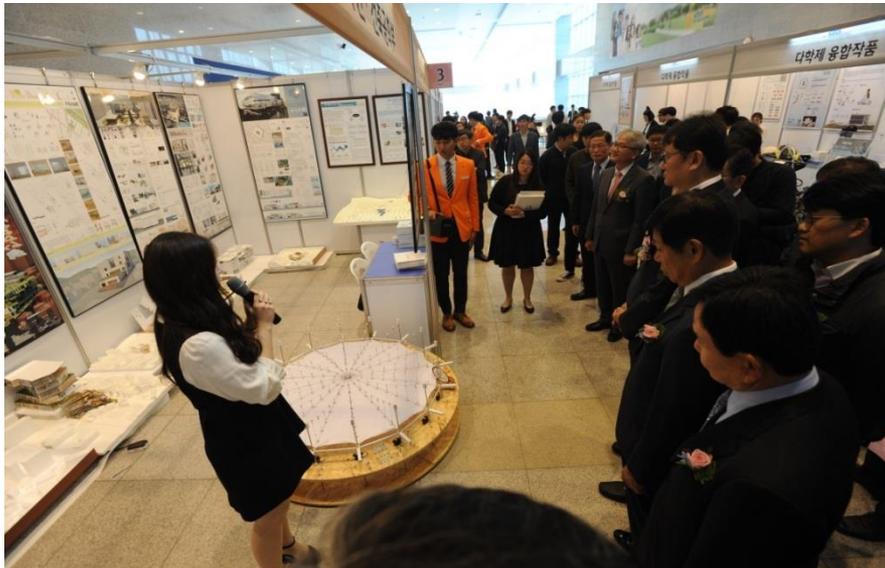
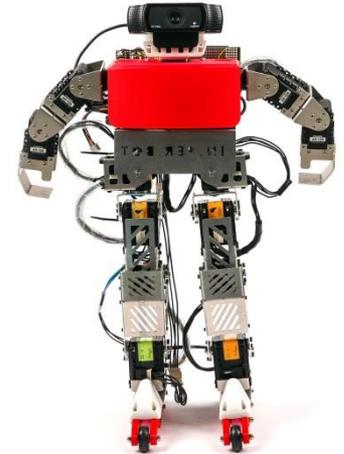
50% Theory+50% Experiments & Training

- 74 Lecture Room
- 274 Laboratory
- Required credit for gradation
 - Engineering: 150
 - Industrial Management: 140



Capstone Design & Graduation Project

- Mandatory for graduation (All students)
- One Professor with 5~6 students (Lab-based)
- 221 Graduation Projects (as of 2016)



IPP(Industry Professional Practice) System

- Academic Study + Work Experience
- Junior and Senior
- 4 ~ 10months (6~9 Credits)
- 370 students, 200 companies
- Allowances from University and Company
- Starting from 2012 -> diffuse out 24 univ.



Human Resources Development Institute

- TVET Teachers License Course
- NCS Training & Consulting
- High-tech Industry Training
- HRD Training
- On-the-job Training



- Total : 69,955 participants (2016)
- TVET Teacher License Course – 18,701
- Capacity Building for TVET Teacher – 18,435
- NCS – 25,143
- Capacity Building for Work-Based Learning Specialist – 7,676



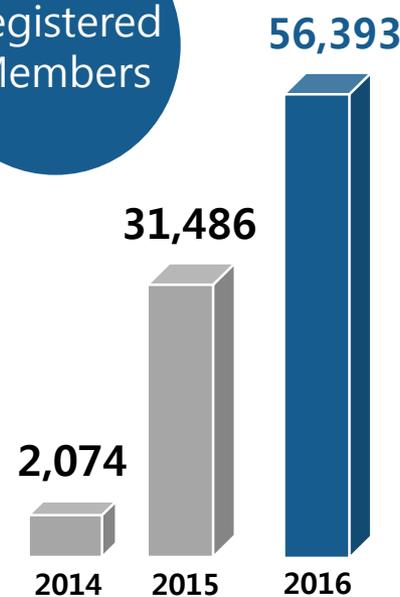
Online Lifelong Education Institute

- **Online Contents**

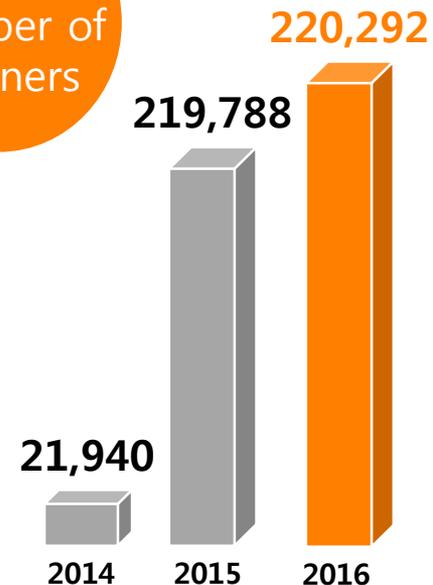
Field	Contents
Total	318
Machinery	92
Electrical, Electronics	65
Information, Communication	88
Materials, Chemicals	10
Architect, Environment	10
Printing, Design	15
Basic Learning Abilities	17
Mechatronics	5
Computer	16



Registered Members



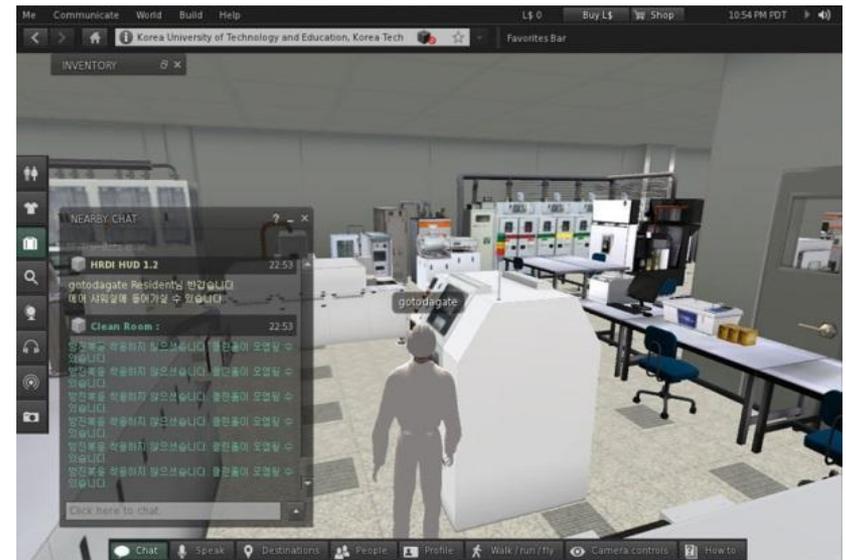
Cumulative Number of Learners



Online Lifelong Education Institute (e-learning & Virtual Training)



- can learn any time, any where



- 31 types of virtual training contents to 20,000 people free of charge

Virtual Training Contents



Actual training



Virtual training

- Low Industrial accident risk
- Low material cost (repetitive training available)
- Low Time and place restriction

Industry-University Cooperation Foundation

- **Strong Industrial Band(820 Family companies)**
 - Research Affairs
 - Business Incubator



- HRD Vocational Training
- Capacity building for engineers (7,000)
- Samsung Global Skills Competition (2006~)

An aerial photograph of a university campus at dusk. The sky is a mix of purple, pink, and blue. In the background, there are mountains. The campus features a large green lawn with a circular garden in the center, several modern buildings, and a road with cars in the foreground. The text '03 TVET in Asian Countries' is overlaid on the right side of the image.

03

TVET in Asian Countries

2016 OECD ESSSA Korea Workshop



- **Theme : Engaging Employers in Skills Development and Utilization at the Local Level**



- **Countries : Malaysia, Philippine, Thailand, Cambodia, Laos, Japan, Germany (GIZ)**

2017 Global TVET Policy Workshop



Sessions

1. Training of TVET Teachers
2. Curriculum of TVET Institutions
3. Skills Development and Employment Policy for Job Creation

- **Theme : Strategies of TVET Institutions to Achieve Sustainable Development**
- **23 participants from 15 Countries (8 Asian Countries) and > 300 Korean participants**

TVET-CAMPUS



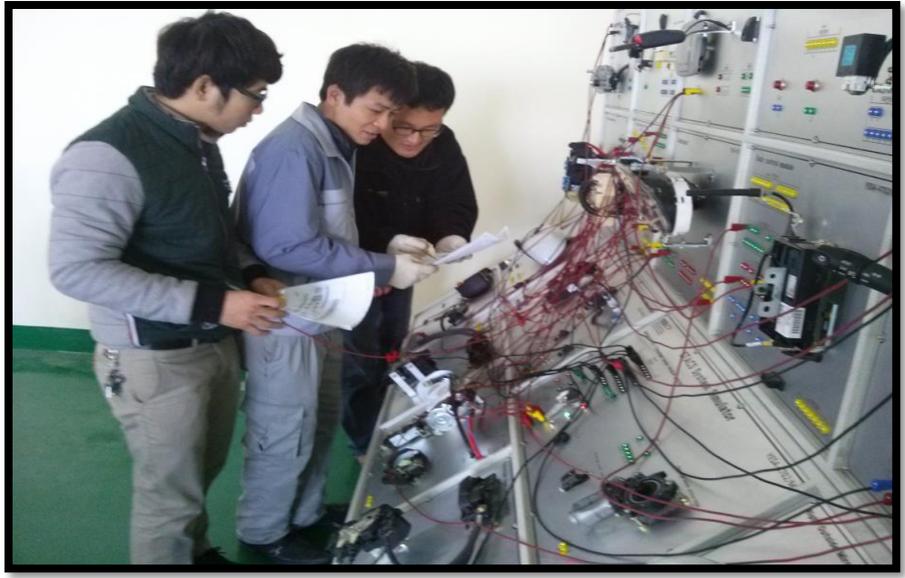
Main Cooperation Fields

- Personnel exchange
(Student mobility, Faculty exchange)
 - Education and research
 - Exchange academic information
-
- **Participants : Thailand, Malaysia, Cambodia, Vietnam
(5 Asian Countries, 8 Universities or College)**

ODA Projects

Countries	Period	Projects
Vietnam	2010.12.~2016.12	Consulting Services for Five Vietnam Korea Vocational College Establishment Project
Vietnam	2011.07~2014.06	PMC Services for the Establishing the Korea-Vietnam College of Technology in Bac Giang
Uzbekistan	2013.08~2017.02	PMC Services for the Project for Capacity Building of Vocational Training Education in Samarkand of Uzbekistan
Cambodia	2013.12~2015.12	PMC Services for the Developing Technical Education at Upper Secondary Level
Sri Lanka	2014.08~2018.05	Consulting Services for the establishment of Colombo Central Vocational Training Center and Gampaha College of Technology Project
Bangladesh	2014.10~2017.09	PMC of Project for Modernization and Strengthening of Training Institute for Chemical Industries in Bangladesh
Myanmar	2015.12~2019.12	The Project for Capacity Building of TVET Teacher in Myanmar

ODA Projects



ODA Projects



ODA Projects



Advanced Facilities



Library

- Study rooms, Media center,
- Seminar rooms

Advanced Facilities



- Cleanroom
- Virtual Training Center

Advanced Facilities



Dadam Learning Factory

Advanced Facilities



Human Resources Development Institute

Advanced Facilities



Center for Research and Facility



Thank you