Design Thinking for SDGs

Session 1:
Intro to DFK

Tuesday August 17, 2020

Prof Youn-ah Kang
an open platform where education meets industries to solve real problems based on interdisciplinary team projects
Create

Design Factory Korea creates values through problem based learning, providing an experimental learning environment to build innovative knowledge ecosystem.
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Connect
Design Factory Korea connects academia and industry with specialized programs designed for convergence studies to lead future education that combines design, business, and engineering.
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Design Factory Korea connects academia and industry with specialized programs designed for convergence studies to lead future education that combines design, business, and engineering.

Create
Design Factory Korea creates values through problem-based learning, providing an experimental learning environment to build innovative knowledge ecosystem.

Platform
Design Factory Korea provides a future model of innovative educational platform by collaborating with industries to solve real problems based on Interdisciplinary team projects.
Timeline

2015

2015. 4
DFK Opening

2015. 3 – 6
TAD Capstone Project

2015. 7 – 10
DFK - LG Project

2015. 8
Incheon Startup Weekend

2015. 10 – 2016. 5
Aalto PDP Project
Timeline

2015

2015. 4
DFK Opening

2015. 3 – 6
TAD Capstone Project

2015. 7 – 10
DFK - LG Project

2015. 8
Incheon Startup Weekend

2015. 10 – 2016. 5
Aalto PDP Project

2016

2016. 1
DFK - SDF Cisco Project

2016. 1
Product Development Workshop for Junior HighSchool Students

2016. 3 – 6
TAD Capstone Project

2016. 3 – 6
DFK - LG Project DFK - Allianz Project
Timeline

2015
- 4  
  DFK Opening
- 3 – 6  
  TAD Capstone Project
- 7 – 10  
  DFK - LG Project
- 8  
  Incheon Startup Weekend
- 10 – 2016. 5  
  Aalto PDP Project

2016
- 1  
  DFK - SDF Cisco Project
- 1  
  Product Development Workshop for Junior - HighSchool Students
- 3 – 6  
  TAD Capstone Project
- 3 – 6  
  DFK - LG Project  DFK - Allianz Project

2017
- 1  
  CK Social Innovation Challenge Workshop
- 2  
  CK Software Workshop for High School Students
- 3 – 6  
  TAD Capstone Project
- 3  
  CK Underwood International Case Competition
- 6  
  CK Social Innovation Challenge Workshop
- 8  
  CK Social Innovation IoT Workshop
- 10  
  IDFW 2017
## Timeline

**2015**
- 2015. 4  
  DFK Opening
- 2015. 7 – 10  
  TAD Capstone Project
- 2015. 8  
  Incheon Startup Weekend
- 2015. 10 – 2016. 5  
  Aalto PDP Project

**2016**
- 2016. 1  
  DFK - SDF Cisco Project
- 2016. 1  
  Product Development Workshop for Junior - High School Students
- 2016. 3 – 6  
  TAD Capstone Project
- 2016. 3 – 6  
  DFK - LG Project  DFK - Allianz Project

**2017**
- 2017. 1  
  CK Social Innovation Challenge Workshop
- 2017. 2  
  CK Software Workshop for High School Students
- 2017. 3 – 6  
  TAD Capstone Project
- 2017. 3  
  CK Underwood International Case Competition
- 2017. 6  
  CK Social Innovation Challenge Workshop
- 2017. 8  
  CK Social Innovation IoT Workshop
- 2017. 10  
  IDFW 2017

**2018**
- 2018. 2  
  Social Impact Week
- 2018. 3  
  Design Your Life
- 2018. 6  
  IDFW 2018 Rapid Action Week
- 2018. 9  
  Nexus Maximus V
- 2018. 11  
  Social IoT Gala at NYCDF

**2019**
- 2019. 3 - 6  
  TAD Capstone Project
- 2019. 4 - 6  
  IKEA Smart Home Project
- 2019. 4 - 5  
  Rat Relay
- 2019. 7  
  Social Impact Boot Camp in Tanzania

- 2019. 3 - 6  
  Social Impact Week
Timeline

2020

2020. 1
TAD Capstone Project

2020. 5 - 12
Makerspace:
Specialized Lab i7

2020. 6 - 12
Startup Park:
Scale-up Challenge Lab

2020. 8
UNOSD Youth Summer Camp
Committee

- Jung Hoon Lee
  Director
  Professor of CTM

- Su Jin Jun
  Professor of IID

- Sungoo Lee
  Professor of STP

- Semee Yoon
  Associate Director
  Professor of SDC

- Youn Ah Kang
  Professor of IID

- Kee Heon Lee
  Professor of CTM

- Sang Won Lee
  Professor of CDM

- Jee Hyun Lee
  Professor of CDM

- Hyojin Lee
  DFK Coach

- Ye Eun Park
  DFK Coach
Design Factory Korea

- **Global Leader**
  - 2015 - present
  - Leadership Seminar: Techno-Art Entrepreneurship
  - DFK Workshops

- **Knowledge Creator**
  - 2015 – present
  - Techno-Art Capstone Project

- **Knowledge Networker**
  - 2017 - present
  - Social IoT Capstone project
  - 2017.02
  - Social leadership program for Junior High School Students
  - 2019.07
  - DFK Social Impact Bootcamp in Tanzania

- **Social Innovator**
  - 2017 - present
  - Social leadership program for Junior High School Students

- **Local Mentor**
  - 2015 - present
  - International Design Factory Week
  - Leadership Seminar: Techno-Art Entrepreneurship

- **International Co-worker**
  - 2016.1
  - DFK-SDF-Cisco Project
  - 2019.4
  - DFK-IKEA Sweden Project

- **Creative Entrepreneur**
  - 2015 - present
  - International Design Factory Week
  - Leadership Seminar: Techno-Art Entrepreneurship
  - DFK Workshops

- **Industry Collaborator**
  - 2015 - 2016
  - LG - DFK Academy & Industry Collaboration

- **DFKer**
  - 2015 - present
  - Startup Weekend Incheon
  - 2015.8
  - DFK-SDF-Cisco Project
  - 2016.1
  - DFK-IKEA Sweden Project

- **Product Development Project for junior high school students**
  - 2015 - 2016

- **International Design Factory Week**
  - 2015 - 2016
  - Product Development Project for junior high school students

- **Leadership Seminar: Techno-Art Entrepreneurship**
  - 2017 - present

- **DFK Workshops**
  - 2017 - present

- **Leadership Seminar: Techno-Art Entrepreneurship**
  - 2017 - present

- **DFK Workshops**
  - 2017 - present

- **Social IoT Capstone project**
  - 2017 - present

- **Social leadership program for Junior High School Students**
  - 2017.02

- **DFK Social Impact Bootcamp in Tanzania**
  - 2019.07
Design Factory Korea

- 564 Students participating projects
- 45 Industry Mentors supporting projects
- 28 Professors arranging projects
- 29 Projects initiated by DFK
- 91 Ideas and Prototypes generated from projects
Design Factory
Global Network

24 design factories in 21 countries
Design Factory Korea

Design Factory Global Network (DFGN) is a network of innovation platforms that drive change in their own institutions for a better learning culture, whether it is in a university or a research center.

Ankara, Turkey
Barcelona, Spain
Bogota, Colombia
Cali, Colombia
Geneva, Switzerland
Ghent, Belgium
Hamilton, Canada
Helsinki, Finland
Kyoto, Japan
Leeuwarden, Netherlands
Manheim, Germany
Melbourne, Australia
New York, New York
Philadelphia, Pennsylvania
Porto, Portugal
Riga, Latvia
Santiago, Chile
Sao Paulo, Brazil
Shanghai, China
Tartu, Estonia
Valencia, Colombia
Warsaw, Poland
Seoul, South Korea
DFK Ideashop
Veritas B 206

Space for team meeting and experiments
Provides facilities for rapid modeling and prototyping

Transformable studio for seminars and lectures
Experimental studios for VR and photo-shoots
Kitchen utilities for events and active interactions
DFK Protoshop

Wisdom Hall C

Space and equipment for prototyping

Wood studio, CNC, Laser cutter, and 3D printers
Two rooms to combine lecture and hands-on projects
Innovative manufacturing methods