Design Thinking for SDGs

Session 1:
Intro to DFK

Tuesday August 17, 2020

Prof Youn-ah Kang

DFK

DESIGN FACTORY KOREA

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.

Connect

Platform

value

Create

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

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.

Platform

value

Create

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

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.

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

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

2015

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DFK Opening

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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

Timeline

2015

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Project

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DFK - LG Project

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2017

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CK Software
Workshop for High
School Students

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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**

2018 –
**Design Factory in
Africa**

Timeline

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

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

2018 –
Design Factory in Africa

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

2016

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DFK - SDF Cisco Project

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2016. 3 – 6
TAD Capstone Project

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

2015

2015. 4
DFK Opening

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TAD Capstone Project

2015. 7 – 10
DFK - LG Project

2015. 8
Incheon Startup Weekend

2015. 10 – 2016. 5
Aalto PDP Project

Timeline

milestone

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

Su Jin Jun

Professor of IID

Sungoo Lee

Professor of STP

Hyojin Lee

DFK Coach

Jung Hoon Lee

Director
Professor of CTM

Semee Yoon

Associate Director
Professor of SDC

Youn Ah Kang

Professor of IID

Kee Heon Lee

Professor of CTM

Ye Eun Park

DFK Coach

Sang Won Lee

Professor of CDM

Jee Hyun Lee

Professor of CDM

Design Factory Korea

DFKer

Industry Collaborator

2015 - 2016
LG - DFK Academy & Industry Collaboration

Global Leader

2015 - present
International Design Factory Week

Knowledge Networker

2017 - present
Leadership Seminar: Techno-Art Entrepreneurship

DFK Workshops

Creative Entrepreneur

2015.8
Startup Weekend Incheon

Knowledge Creator

2015 – present
Techno-Art Capstone Project

International Co-worker

2016.1
DFK-SDF-Cisco Project

2019.4
DFK-IKEA Sweden Project

Social Innovator

2017 - present
Social IoT Capstone project

2017.02
Social leadership program
for Junior High School Students

2019.07
DFK Social Impact Bootcamp in Tanzania

Local Mentor

2015 - 2016
Product Development Project for junior
high school students

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

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

Sanghai
China

Tartu
Estonia

Valencia
Colombia

Warsaw
Poland

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

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 prototptyping

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

manufacturing methods