

## 1. 授業の概要(ねらい)

This course focuses on an introductory study of Innovation, which is a key driver of success for social and economic growth and evolution, as well as today's leading companies. All lectures and workshops are given in English.

It is open to foreign students as a part of Teikyo Asian Exchange Program (TAEP). And also it is welcoming Japanese students who challenge an essential style of studying in global society to learn and work together in English. Possible kind navigations would be provided for students who face some difficulties to fit to unfamiliar style of learning in English.

In this course, first, we study on what is innovation through various cases of innovation in Japan and more those of United States as a center of innovation. Especially those dynamics (history) of how innovations were produced and expanded, we prepare a series of video articles on Innovation made in Japan and United States for easy and practical understandings.

Second, we stretch those understandings through workshops using a textbook telling a long history of Innovation.

Third, we prepare our basic knowledges for the following precise study of innovation expected in the next semester's Innovation Course.

## 2. 授業の到達目標

① to understand what is Innovation, especially its nature and mechanism to occur, diffuse and grow in complex social and economic system.

② to be able to explain dynamic feature of innovation taking a practical case such as Information Technology, Energy, Medical, Money, Biology and Infrastructure field, through learning various cases of Innovation in this course.

③ to be able to explain how you are thanking fruit of innovation in daily life and what is required for future innovation

## 3. 成績評価の方法および基準

Your course grade is based on the following components:

Mid-term reports and the final report (exam): 40%

Workshops and Discussion/ Participation and Contribution:30%

Class Participation / Your Discipline:30%

## 4. 教科書・参考文献

教科書

Jared Diamond 『guns, germs and steel/ a short history of everybody for the last 13,000years』  
Vintage Books, London

授業ごとに資料を配布します。

『Softbank World in 2017/2018/2019』 (available in Internet)

『World Economic Forum 2018/2019』 (available in Internet)

参考文献

Dr.Klaus Schwab 『The Fourth Industrial Revolution』 World Economic Forum

## 5. 準備学修の内容

to read 『guns, germs and steel』 and prepare for workshops

## 6. その他履修上の注意事項

to be explained in the lecture of introduction

## 7. 授業内容

- 【第1回】 Course Overview  
Essential nature of innovation in Complex System of society and economy.
- 【第2回】 Key elements for Innovation  
Workshop-1: History of Japanese successful merchants and their innovation and education
- 【第3回】 Century of Innovation in The United States  
The Telephone / its birth and development
- 【第4回】 Empire of the Air / the Man who made Radio
- 【第5回】 Transistorized / Semiconductor Industry, its birth and development
- 【第6回】 Silicon Valley / the history of the holy land of high-technology
- 【第7回】 Personal Computer(1) / its birth and evolution
- 【第8回】 Workshop-2: Google and Amazon
- 【第9回】 Personal Computer(2) / its birth and evolution
- 【第10回】 The Rise of Internet(1) / its brief history
- 【第11回】 Innovation for Automobiles
- 【第12回】 Workshop-3: Softbank and Honda
- 【第13回】 Innovation for Company
- 【第14回】 Innovation for Organizations and their Individuals
- 【第15回】 Overview on Innovation (Intelligence/Energy/Bio/Money, each fields)  
Uncertain and complex times/ Changing Principle of Innovation