

日本の産業と科学技術

単位数: 1. 担当教員: 渡邊 由美子. 履修年度: 2020. 開講言語: English.

授業の目的・概要及び達成方法等

This specialized subject course (one credit) is a multidisciplinary course that has been organized by the faculties of science, engineering, and agriculture since 2016. Except for the first class, each class will feature a lecture by a specialist in his field. The topic of each lecture will be related to the science, technology, and industry, and their relationships in Japan and the globe". The topics also include issues and efforts in specific fields of industry to implement the 17 SDGs (Sustainable Development Goals) announced by the United Nations in 2016.

Students will learn how science, technology, and industry in different fields were integrated and developed, and how they contributed, contribute, and will contribute to our society with different cultures, and in diverse circumstances.

Registered students are expected to apply what they learn from this course in another course titled "Multidisciplinary Internship" which will be given in summer 2021.

授業の目的・概要及び達成方法等(E)

The goal of this course is to give students a multidisciplinary perspective and open-minded attitude in a diverse group of people with different cultural and academic backgrounds.

授業計画(E)

#1 Guidance will be given by Y. Watanabe at GLC on October 6.

#2-8 Lectures by guest speakers will be given on the 7 dates listed in the table below. Please note that this schedule is a tentative one and the final schedule will be announced in a timely manner.

Oct. 6 渡邊由美子 (Yumiko WATANABE) 東北大学・GLC

Oct. 13 井出 秀一氏 (Hidekazu IDE) (株) 原子力燃料工業
(Nuclear Fuel Industries)

Oct. 20 山口 喬氏 (Takashi YAMAGUCHI) (株) 住友重機械工業
(Sumitomo Heavy Industries)

Oct. 27 蛭名 武雄氏 (Takeo EBINA) (国研) 産業技術総合研究所
(AIST: Advanced Industrial Science & Tech.)

Nov. 10 佐藤 陽一氏 (Yoichi SATO) (株) 理研食品
(Riken Food)

Nov. 17 富田二三彦氏 (Fumihiko TOMITA) (国研) 情報通信研究機構
(NICT: Info. & Comm. Tech.)

Nov. 24

仁平 貴康氏 (Takayasu NIHIRA) (株) 日産化学
(Nissan Chemical, Corp.)

Dec. 1 遠藤 宜成氏 (Yoshinari ENDO) 東北大学名誉教授・放送大学客員教授

成績評価方法及び基準(E)

Attendance, active participation, including the submission of a short essay on each lecture (50%)

A proposal (1,200~1,500 words) on your idea to contribute to the growth and/or innovation of an industry in your country while maintaining sustainable development in that country or elsewhere in the globe.

You are expected to apply your specialty and integrated knowledge beyond the conventional academic field that you learned about from this course (50%)

教科書および参考書

備考

Late submission of an essay and a report may result in a lower score on your work. A long delay (more than 1 week) will be considered to be a failure of the submission, and no scores will be given.