

Essential Engineering & Technology for Global Leaders I

概要

Engineering is a broad topic. This course focuses on health technologies, especially the ones able to play a beneficial role in the prevention of non-communicable diseases and the extension of healthy life expectancy. The health care industry traditionally provides lots of opportunities for technological innovations. The recent development of mobile health technologies might change preventive medicine. They offer continuous monitoring features and frequent feedbacks for the user. They also provide distance intervention / communication tools for health professionals. Therefore, they might be able to induce healthier lifestyles.

First, students will increase their knowledge on some medical technologies and outcomes that are traditionally used for the surveillance of non-communicable diseases. Then, they will focus on new home-based and mobile technologies, which provide development opportunities for engineers and contribute to the field of health science.

講師



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フランス領アンティル・ギアナ大学にて博士号取得。

モントリオール大学、国立健康・栄養研究所勤務等を経て、現在リーディング大学院推進センター特任准教授。

スケジュール

※Students are expected to come in class **with a laptop** (or any other equipment allowing literature search and having an office suite).

| 日時 | 教室 | 講義テーマ |
|-----------------------|------------------|---|
| 10月7日(火) 10:40~12:10 | 共通講義棟 1号館 404 | <ol style="list-style-type: none">1. Guidance2. Prevention of non-communicable diseases: opportunities for innovation3. Understanding my health check: physiological indexes and assessment methods4. Body composition: assessment methods and determination of normal values5. Physical Fitness: assessment methods6. Vascular function: review of some assessment methods7. Monitoring physical activity8. Accelerometry and lifestyle interventions9. Mobile phone “apps”, “lifelogs” and other wearables10. Video games for health promotion11. Video games for balance training12. Designing healthy interiors13. Mobile health technology: legal issues14. Presentations15. Synthesis and conclusions |
| 10月14日(火) 10:40~12:10 | | |
| 10月21日(火) 10:40~12:10 | | |
| 10月28日(火) 10:40~12:10 | | |
| 11月4日(火) 10:40~12:10 | | |
| 11月11日(火) 10:40~12:10 | | |
| 11月18日(火) 10:40~12:10 | | |
| 11月25日(火) 10:40~12:10 | | |
| 12月2日(火) 10:40~12:10 | | |
| 12月9日(火) 10:40~12:10 | | |
| 12月16日(火) 10:40~12:10 | | |
| 1月6日(火) 10:40~12:10 | | |
| 1月13日(火) 10:40~12:10 | | |
| 1月20日(火) 10:40~12:10 | | |
| 1月27日(火) 10:40~12:10 | | |

学生へのメッセージ

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