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| Course | Advanced Food System |
| Course No. | 01ER237 |
| Credits | 2 Credits |
| Grade | 1 st Year |
| Timetable | Fall C intensive |
| Instructor | Yutaka Kitamura |
| Course Overview | This course focus on food security issues in terms of food system. From the reasons to be directed to non-uniform wide variety of organic resources, required persistence for energy conservation and resource conservation, and the difficulty of the artificially controlled by influence of nature, explain that the handling by systematizing is effective while citing example. |
| Remarks | Conducted in English. |
| Course Type | Lectures |
| Link between Course Objectives and Activities | Achieved by the profession of development of food systems, design, analysis and methods including the evaluation of quality and quantity of numerical evidences, reliability of reports. |
| Academic Goal | To learn the theory and techniques (such as mathematical elucidation of parameters in food production, practical analyses of statistical data, systematic analyses of climate and environment) required for system of process leading to consumption from food production. |
| Course Schedule | <ol style="list-style-type: none"> 1. Control of food system and its actuality 2. Analysis of mathematical model of food system control system 3. Optimal scale of decision technique in food system 4. Exercises of calculation simulation 5. Case of the analysis and optimization of system 6. Evaluation method of food system 7. Case Studies of futuristic energy system 8. Case Studies of biomass utilization system 9. Verification of natural energy use food system 10. Grain of food safety system |
| Course Prerequisites and Advisories | |
| Grading Philosophy (Percentage/ Criteria/ Methodology) | Report and class participation. Grading Criteria is A+ (Superior), A (Excellent), B (Good), C (Average) and D (Failure). |
| Self-Directed Learning Other Than Coursework | Complete reports as assigned |
| Textbooks, References and Supplementary Materials | Introduced appropriately in lecture |
| Office Hours | Name: Yutaka Kitamura E-mail: kitamura.yutaka.fm@u.tsukuba.ac.jp By appointment only |
| Other (i.e. Expectations on Classroom, Conduct and Decorum etc.) | |
| Related Courses | Advanced Course on Global Food Security Agriculture in Taiwan Impact of Environmental Stresses on Crops Production |
| Keywords | Food Security, Food System, Statistical Analyses |