ENG PHYS 707
Toward a New Era of Nuclear Energy: Message from Fukushima
Winter 2020
Course Outline

CALENDAR/COURSE DESCRIPTION

Include the Calendar Description or a brief Course Description of the course.

PRE-REQUISITES AND ANTI-REQUISITES

Prerequisite(s): Registration in the final level of an Engineering Physics program
Antirequisite(s): NA

INSTRUCTOR OFFICE HOURS AND CONTACT INFORMATION

Dr. S. Nagasaki
NRB 105
nagasas@mcmaster.ca
ext. 27090

Office Hours:
By appointment

TEACHING ASSISTANT OFFICE HOURS AND CONTACT INFORMATION

NA

COURSE WEBSITE/ALTERNATE METHODS OF COMMUNICATION

Www.coursewebsite.mcmaster.ca
http://avenue.mcmaster.ca/

COURSE OBJECTIVES

- Make the research presentation at Joint Workshop of UofT, McMaster and the University of Tokyo (WS)
- Establish the human network among the similar generation of three institutes during and after the WS
- Understand the responsibility of nuclear engineer
- Consider the future of nuclear energy based on the lessons learnt from Fukushima
- Understand the design, operation and role of various nuclear facilities
**MATERIALS AND FEES**

No materials

Recommend to read “Reflections on the Fukushima Daiichi Nuclear Accident” (Springer Open) and other reliable information on Fukushima accident in advance.

Travel and accommodation fee: There are no financial supports from the department and university. Talk with your supervisor.

**COURSE OVERVIEW**

Week of May 11: Joint Workshop of UofT, McMaster and the University of Tokyo (May 12 – 15)
Week of May 18: Visit TEPCO Fukushima Daiichi and Daini, and other nuclear facilities in Japan
Tentative plan
May 18 TEPCO Fukushima Daiichi, Discussion with engineers and/or residents
May 19 TEPCO Fukushima Daini, Discussion with students of Fukushima College
May 20 Japan Atomic Energy Agency
May 21 Tsukuba University – Discussion about Fukushima (morning); JAXA or CRIEPI (afternoon)
May 22 CRIEPI or IHI, Return to Canada

Details will be explanation in the explanation session (March or April 2020). Schedule will be announced later.

**ASSESSMENT**

Full attendance and the presentation at the WS are mandatory.
Assessment will be dependent on how you contribute to the discussion at the WS and at the facilities we visit.
Final report (detail will be explained at the explanation session) is required.

**ACCREDITATION LEARNING OUTCOMES**

NA

**ACADEMIC INTEGRITY**

NA

**ACADEMIC ACCOMMODATIONS**


NOTIFICATION OF STUDENT ABSENCE AND SUBMISSION OF REQUEST FOR RELIEF FOR MISSED ACADEMIC WORK

NA

NOTICE REGARDING POSSIBLE COURSE MODIFICATION

The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.

TURNITIN.COM STATEMENT

NA

ON-LINE STATEMENT FOR COURSES REQUIRING ONLINE ACCESS OR WORK

In this course, we will be using Avenue to Learn and email. Students should be aware that, when they access the electronic components of this course, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure, please discuss this with the course instructor.

REFERENCE TO RESEARCH ETHICS

The two principles underlying integrity in research in a university setting are these: a researcher must be honest in proposing, seeking support for, conducting, and reporting research; a researcher must respect the rights of others in these activities. Any departure from these principles will diminish the integrity of the research enterprise. This policy applies to all those conducting research at or under the aegis of McMaster University. It is incumbent upon all members of the university community to practice and to promote ethical behaviour. To see the Policy on Research Ethics at McMaster University, please go to http://www.mcmaster.ca/policy/faculty/Conduct/ResearchEthicsPolicy.pdf.