JEE 701/JEE711 Research Communication
(Course coordinator: Dr. Sebastien Bonnet)

1. Course Description [*Briefly describe the course content, especially how it supports the PLO*].
The objective of the course is to enhance the capabilities of students in extracting information from technical papers and reports, as well as in writing scientific/review papers and making academic presentations. At the beginning of the course, classes are devoted to provide (1) guidelines and techniques to extract and analyze information from scientific publications, (2) research methods and tools to search, manage and generate bibliographies (Mendeley; Google Scholar; Science Direct; etc.) and (3) guidelines for paper writing and oral presentation. These classes delivered during live classroom sessions are accompanied with online teaching materials and guidance. Students will be required to work independently, as well as to interact with other students, researchers and academic staff as part of a process of exchange of ideas and information

2. Target Knowledge, Skills, and Abilities (KSA) [*Indicate what KSA this course will provide the students with*].
This course provides students with knowledge about the concept of research communication, skills to select, read and write research papers as well as to prepare academic presentations with adequate style in English, and anability to communicate and interact with other researchers in an international environment.

3. Target group of students [*Indicate if the course is opened for all students, including non-degree ones*]
The course is opened to Master and PhD students with a background in science or engineering.

4. Pre-requisites [*Indicate if the course requires some pre-requisites*].
This course does not require any pre-requisites.

5. Course Learning Outcomes [*Indicate the alignment of CLOs with the PLOs*].
CLO 1: Able to search, select and critically read research papers
CLO 2: Able to write a research paper in English with adequate format and style
CLO 3: Able to prepare and deliver a presentation in English in front of an international audience

6. Method of Teaching and Learning [*Specify if it would be 1/ Online; 2/ On-site; 3/ Hybrid; 4/ Online for lectures and On-site in small groups for discussions and workshops; 5/ Others*].
This course will be delivered in a hybrid format, i.e. a combination of online and on-site lectures and presentations.

7. Course Outline and Organization [*Following KMUTT's recommendations, a course should be organized based on the OBEM approach. A course can, therefore, be split over the semester, but also organized in consecutive weeks as before. A module can contain from 2 up to a maximum of 5 lectures depending on the target LOs. A 3 credits course can be composed of 3 to a maximum of 5 modules. In addition, indicate if **the course is opened every Semester or a specific Semester**].*

This course is opened every Semester. For the Semester 2/2023, this course is scheduled every Thursday morning (9.00 am – 12.00 pm) from Thursday 18 January to Thursday 9 May 2024.

MODULE 1: PAPER SELECTION, BIBLIOGRAPHY AND THE JOURNAL SUBMISSION PROCESS
MLO 1: Can use search engines to screen and select research papers, books and other documents
MLO 2: Able to critically read papers and select relevant information from them
MLO 3: Able to use reference management tools to build a bibliography and reference documents

Lecture No.: Title	Name of Instructor (Affiliation)	Teaching Period
LECTURE 1: Techniques to screen and read scientific papers	Dr. Sebastien Bonnet	18 Jan. 2024
LECTURE 2: Building a bibliography: Search engines and the Mendeley reference manager	Dr. Sebastien Bonnet	25 Jan. 2024
LECTURE 3: Journal selection and the peer review process	Dr. Sebastien Bonnet	1 Feb. 2024

EVALUATION: Submission of form AS-08: 5% of course grade
25 January 2024: Identification of title of paper (2.5%)
1 February 2024: List of references (2.5%)

MODULE 2: : PREPARING A SCIENTIFIC PAPER
MLO 1: Understand the concept of a scientific paper
MLO 2: Understand the structure of a research paper
MLO 3: Can prepare a scientific paper with adequate format and style

Lecture No.: Title	Name of Instructor	Teaching Period
LECTURE 1: Composition and style of a scientific paper – Part 1	Dr. Sebastien Bonnet	8 Feb. 2024
LECTURE 2: Composition and style of a scientific paper – Part 2	Dr. Sebastien Bonnet	15 Feb. 2024
LECTURE 3: Guidelines to format a scientific paper	Dr. Sebastien Bonnet	22 Feb. 2024

EVALUATION: Assessment of scientific paper: 65% of course grade
15 February 2024: Submission of table of contents (2.5%)
29 February 2024: Submission of tables and figures (2.5%)
29 March 2024: Full paper submission deadline (final version) (60%)

Note: *Students can be provided with individual coaching by Prof Robert H.B. Exell during March 2024 (by appointment).*

MODULE 3: : PREPARING AND MAKING A PRESENTATION		
MLO 1: Can prepare an academic presentation with adequate format and style		
MLO 2: Can present academic work in English in front of an international audience		
Lecture No.: Title	Name of Instructor	Teaching Period
LECTURE 1: Preparing a presentation: What to do and not to do – Part 1	Dr. Sebastien Bonnet	29 Feb. 2024
LECTURE 2: Delivering a presentation: What to do and not to do – Part 2	Dr. Sebastien Bonnet	7 Mar. 2024
Presentations: Student presentations: 20 minutes per student + 10 minutes for Q&A	Dr. Sebastien Bonnet & JGSEE teaching staff	18 Apr. - 9 May 2024
EVALUATION: EVALUATION: Assessment of scientific presentation: 30% of course grade April-May 2024: paper presentations 30%)		

8. Evaluation Methods [*Indicate the methods used to evaluate the LOs, e.g. online or on-site exams, assignments, take-home exams, projects, etc. Following KMUTT recommendations, the LOs evaluation should be organized at the end of each module*].

Module 1: Submission of form AS-08: ***5% of course grade***
      25 January 2024: Identification of title of paper (2.5%)
      1 February 2024: List of references (2.5%)
Module 2: Assessment of scientific paper: ***65% of course grade***
      15 February 2024: Submission of table of contents (2.5%)
      29 February 2024: Submission of tables and figures (2.5%)
      29 March 2024: Full paper submission deadline (final version) (60%)
Module 3: Assessment of presentation: ***30% of course grade***
      April-May 2024: paper presentations (30%)

9. Guided References/Resources [*Indicate the references/resources students are recommended to consult for the modules/course*].
1. Bonnet, S. (2022) *All you need to know for writing and publishing a scientific paper,* The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi, ISBN: 978-974-456-819-9.
2. Exell R.H.B (2006) *Research methodology,* King Mongkut's University of Technology Thonburi, ISBN 974-456-658-2, December 2006.