

<b>JEE 682 Environmental and Health Risk Assessment (3 credits course)</b>
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**JEE 682**                      **Environmental and Health Risk Assessment**

**3(3-0-6)**

Prerequisite: None

*The objective of this course is to understand concepts of risk assessment and to gain knowledge of risk estimates, as well as the applications of risk assessment in the environmental management and planning systems.*

**Outline:**

**An Introduction to Risk Assessment**

(1 lecture: Dr. Sebastien Bonnet, 16 Jan. 2019)

**Statistics for Risk Analysis**

(1 lecture: Dr. Sebastien Bonnet, 23 Jan. 2019)

**Risk Analysis**

(1 lecture: Dr. Sebastien Bonnet, 30 Jan. 2019)

**Risk Management - Decision Tree Analysis**

(1 lecture: Dr. Sebastien Bonnet, 6 Feb. 2019)

**Transport and Transfer of Pollutants in Water**

(1 lecture: Prof. Shabbir H. Gheewala, 13 Feb. 2019)

**Transport and Transfer of Pollutants in Atmosphere**

(1 lecture: Dr. Kasemsan Manomaiphiboon 20 Feb. 2019)

**Risk Assessment – Hands-on Session - part 1**

(1 lecture: Dr. Sebastien Bonnet, 27 Feb. 2019)

**Industrial Contamination with Cd – Risk Assessment Case-Study - part 1**

(1 lecture: Dr. Sebastien Bonnet, 13 Mar. 2019)

**Ambient Air Pollution, Exposure and Health Impact Assessment**

(1 lecture: Dr. Sebastien Bonnet, 20 Mar. 2019)

**Assessment of Health Impacts using BenMAP – Case-study of Bangkok**

(1 lecture: Dr Thao Pham Thi Bich, 27 Mar. 2019)

**Assessment of Health Impacts using BenMAP – Hands-on session**

(1 lecture: Dr Thao Pham Thi Bich, 3 Apr. 2019)

**DALY as Health Impact Indicator**

(1 lecture: Dr Sebastien Bonnet, 10 Apr. 2019)

**Monetisation of Health Impacts**

(1 lecture: Dr. Sebastien Bonnet, 17 Apr. 2019)

**Industrial Contamination with Cd – Risk Assessment Case-Study - part 2**

(1 lecture: Dr. Sebastien Bonnet, 24 Apr. 2019)

**Risk Assessment – Hands-on Session - part 2**

(1 lecture: Dr. Sebastien Bonnet, 1 May. 2019)

**Invited Lecturers:**

Prof. Shabbir H. Gheewala, JGSEE

Dr. Kasemsan Manomaiphiboon, JGSEE

Dr. Thao Pham Thi Bich, JGSEE

**Schedule:**

Semester start: Monday 16 January 2019 (every Wednesday, 13.30-16.30, Room EN3204, 2<sup>nd</sup> floor of JGSEE).

Mid-term exam: 6 Mar. 2019 (Room EN3204, 2<sup>nd</sup> floor of JGSEE). This exam accounts for 40% of final grade.

Final exam: 8 May 2019 (Room EN3204, 2<sup>nd</sup> floor of JGSEE). This exam accounts for 60% of final grade.