



HSE Master Development Program

Prof. Raed KOUTA



Teaching
60%

including one seminar during one week with two companies visits by semester

40%

Project

Major Module (with small project 20%)

30%

Scientific Modules (with small project 20%) **13%**

30%

Professional Modules (with small project 20%) **17%**

Organization, Management, Communication (with small project 80%) **7%**

Educational Project in Tutoring (proposed by prof. 50%) **10%**

20%

Collective Project (proposed by students in group 50%) **3%**

Internship in company (600 h= 17 Weeks= 1 semester)

20%



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UNIVERSITÉ DE TECHNOLOGIE
TROYES

Risks, Safety, Dangers and Hazard Management. (cyndinics)

6 cr.

Basic science lessons

6 cr.

Project and quality Management
6 cr.

- Project Management
- Quality management
- Functional Analysis and Value Analysis

2 cr.

2 cr.

2 cr.

Numerical and Statistical methods in HSE
6 cr.

- Data and knowledge Management
- Advanced numerical optimization methods
- Applied Computing and Multimedia

2 cr.

2 cr.

2 cr.

Environmental Management, Wastewater Prevention and Treatment
6 cr.

- Environmental Risk Management
- Integrated Management Systems, Standard, Certification, QHSE Audits
- Residual materials management

2 cr.

2 cr.

2 cr.

Research Methodology and Academic Writing

2 cr.

Seminar 1 + 2 visits



For details, see HSE PROGRAM SYLLABUS

Dependability of products, systems and processes 6 cr.

Labor Law, Environmental Law, Security and Business 6 cr.

Environmental impact assessment 6 cr.

Environmental Impact & Sustainable Development 6 cr.

- Sustainable development** 2 cr.
- Ecotoxicological risk analysis** 2 cr.
- Physical chemistry in environmental management** 2 cr.

HSE Entrepreneurship 8 cr.

- Financial Management, Investment and Economic Intelligence** 2 cr.
- Management of an international project** 2 cr.
- Business creation in the HSE domain** 2 cr.
- Economics and finance in HSE** 2 cr.

Seminar 2 + 2 visits



For details, see HSE PROGRAM SYLLABUS

3rd Semester

Industrial Ergonomics
10 cr.

- Ergonomics
- Governance of occupational health
- Prevention and treatment of pollution

6 cr.
2 cr.
2 cr.

Educational projects
16 cr.

HDSO=Human Development and Sustainable Development)

- Educational project in tutoring on HDSO
- Educational project in tutoring
- Group test project

6 cr.
6 cr.
4 cr.

Seminar 3 + 2 visits

4th Semester

Academic Writing

6 cr.

Professional pre-insertion

24 cr.

Seminar 4 + 2 visits



For details, see HSE PROGRAM SYLLABUS