

# NORISK

RISK ASSESSMENT AND MANAGEMENT  
OF CIVIL INFRASTRUCTURES



[msc-norisk.org](https://msc-norisk.org)

## MASTER GÉNIE CIVIL PARCOURS INTERNATIONAL MASTERS IN RISK ASSESSMENT AND MANAGEMENT OF CIVIL INFRASTRUCTURES "NORISK"

### CARTE D'IDENTITÉ

- > Domaine : Sciences, Technologies, Santé
- > En formation initiale
- > [En formation continue](#)
- > [Accessible en Coursus Master Ingénierie](#)
- > Accessible en [Validation des Acquis \(VAE\)](#)
- > [60 crédits ECTS](#)
- > 2 semestres
- >  La Rochelle

### CANDIDATER

<https://www.univ-larochelle.fr/formation/admission-inscription-et-scolarité/candidatures-et-inscriptions/sinscrire/>

### CONTACT

Site Sciences et Technologies  
Avenue Michel Crépeau  
17042 La Rochelle cedex 1  
Téléphone : +33 (0)5 46 45 82 59  
Web : <https://msc-norisk.org/master/>  
Courriel : [contact\\_sciences@univ-lr.fr](mailto:contact_sciences@univ-lr.fr)

### OBJECTIFS

#### > Le mot du responsable

“ The NORISK EMJM will provide students with advanced knowledge and skills to work and develop a professional career in the assessment, management, reliability and risk analysis, monitoring, digitalization and intervention on civil infrastructures, particularly, those that support human activities and/or are considered as critical, such as the ones connected to the energy, transport, communications, water, health, defence and national security, banking and financial sectors, among others. In fact, risk assessment combined with concepts such as reliability, robustness, resilience, and sustainability, is a keystone to an optimized asset management, being transversal to all these infrastructures/sectors.

The NORISK will exploit the common denominators that exists in all these sectors by addressing risk assessment towards a better management. Therefore, the EMJM addresses the following key areas on the management of civil infrastructure, which are not being conveniently addressed in the general curricula of classic Bachelor and Master programs :

- Risk assessment and management
- Reliability and resilience
- Management and decision-making tools
- Monitoring and digitalization

- Assessment and intervention.



Emilio Bastidas-Arteaga

## ✓ ADMISSION

### > Comment candidater ?

<https://msc-norisk.org/>

## 📄 PROGRAMME

● obligatoire ■ à choix

### > Semestre 3

#### > Assessment and intervention techniques on infrastructures ●

- Assessment and intervention techniques on infrastructures

Volume horaire

65h (30h cours magistraux - 15h travaux dirigés - 20h travail en accompagnement)

5 crédits ECTS

Code de l'EC

251-3-51

#### > Infrastructure management and decision supporting tools ●

- Infrastructure management and decision supporting tools

Volume horaire

65h (30h cours magistraux - 15h travaux dirigés - 20h travail en accompagnement)

5 crédits ECTS

Code de l'EC

251-3-31

#### > Integrated Project in Risk Analysis and Management of Infrastructures ●

- Integrated Project in Risk Analysis and Management of Infrastructures

Volume horaire

75h (15h cours magistraux - 60h travail en accompagnement)

5 crédits ECTS

Code de l'EC

251-3-61

#### > Introduction to risk assessment and management of infrastructures ●

- Introduction to risk assessment and management of infrastructures

Volume horaire

65h (30h cours magistraux - 15h travaux dirigés - 20h travail en accompagnement)

5 crédits ECTS

Code de l'EC

251-3-11

#### > Monitoring and digitalization of infrastructures ●

- Monitoring and digitalization of infrastructures

Volume horaire

65h (30h cours magistraux - 15h travaux dirigés - 20h travail en accompagnement)

5 crédits ECTS

Code de l'EC

251-3-41

## > Reliability and risk analysis of infrastructures •

- Reliability and risk analysis of infrastructures

Volume horaire

65h (30h cours magistraux - 15h travaux dirigés - 20h travail en accompagnement)

5 crédits ECTS

Code de l'EC

251-3-21

## > Semestre 4

### > Dissertation (4 months) •

- Dissertation (4 months)

30 crédits ECTS

Code de l'EC

251-4-01

## > Règlements et programmes



RÈGLEMENT DES ÉTUDES MASTER GÉNIE CIVIL NORISK [https://formations.univ-larochelle.fr/IMG/pdf/re\\_gc\\_norisk\\_24-25.pdf](https://formations.univ-larochelle.fr/IMG/pdf/re_gc_norisk_24-25.pdf)



Règlement des examens et des certifications professionnelles

[https://formations.univ-larochelle.fr/IMG/pdf/2024\\_reglement\\_des\\_examens.pdf](https://formations.univ-larochelle.fr/IMG/pdf/2024_reglement_des_examens.pdf)

## ET APRÈS

### > Secteurs d'activité

- BTP, aménagement, énergie

Informations présentées sous réserve de modifications

fichier généré le 10 décembre 2024 10h55min