IMT Mines Alès
École Mines-Télécom

DAMAGE
DISASTER MANAGEMENT AND ENVIRONMENTAL IMPACT
MASTER OF SCIENCE

unîmes UNIVERSITÉ

Master taught in English

ACCREDITATION

Master accredited by the French Ministry of Higher Education and Research and co-managed by IMT Mines Ales and Université de Nîmes.

KEY WORDS

Disaster Management, Risk Assessment, Environment, Impact Assessment, Emergency Medicine, Project Management, Human and Social Sciences, Information and Communication Technologies.

LOCATION

Courses will be held on the campus of IMT Mines Alès in the Occitanie French southern Region. The Occitanie Region is known worldwide for its businesses and research clusters in aeronautical and space sectors in Toulouse (with headquarters of Airbus), Montpellier (the oldest Medical School in the world), Nîmes (famous for its cultural heritage).

STRONG POINTS OF THE SCHOOL/PROGRAM

- Grants as Partial fee waivers may be awarded depending on the quality of students files
- Study in Alès in the south east region of France,
- International Faculty
- A 4 to 6 months Master internship in industry or in a public research lab.
- Intercultural seminars
- Free French language courses
- A MSc program boosted by reputed research departments
- An international team for international students
- A quality-chartered “Welcome to International Students”

COMPETENCE ACQUIRED

Knowledge in basic engineering and environmental science engineering with a particular attention for research applied to industry, economy and society.
Crisis management, coordination action and joint response planning by civil protection agencies and humanitarian operations.

LANGUAGE OF TEACHING

100% English

COURSE AIMS

The Master of Science DAMAGE serves as an interface between two fields of applications: disaster management and environmental impact assessment. This multidisciplinary approach will allow students to strengthen their knowledge base by integrating an international dimension on large-scale crises. The proposed courses will allow students to assess the risks (risk analysis methods), propose solutions for risk reduction and preparedness planning. At the end of the two academic years, students should be able to critically analyze the

- different types of risks and their potential consequences.
- technical, human and organizational vulnerabilities
- human perception that influences the risk assessment

They will be able to offer and professionally analyze the management and coordination in the event of human or environmental catastrophe.

PROGRAM

The organization of the teaching modules includes up to 120 ECTS credits over two academic years detailed as follows:

- M1 year: UE1 - UE15
- M2 year: UE16 - UE20

A Master internship (4 to 6 months) represents 30 credits.

UE1: Risk identification (principles and key concepts)

UE2: Risk assessment (methods, natural catastrophes (earthquakes, forest fires)

UE3: Disaster modelling (accident modelling, resilience of critical infrastructures)

UE4: Hazard and response (industrial hazards : fire, explosion, toxic release; mitigation)

UE5: Crisis management (CBRNE, Oil & Gas management, cybersecurity)

UE6: Chemical hazard (runoff reactions, chemical engineering)

UE7: Preparedness and response (logistics in disaster context, response)

UE8: Disaster management (water crisis management, health issues, humanitarian actions)

UE9: Disaster resilience (risk, prevention, relations with stakeholders, large scale rescue operations)

UE10: Disaster and human factor (resilience and human factor)

UE11: Disaster Medicine (emergency medicine, training with serious games)

UE12: Health emergencies (humanitarian actions, quality management, healthcare preparedness)

UE13: Data management (data preparedness, decision making, communication strategies, data management, digital cartography)

UE14: Intercultural management 1

UE15: Internship (6 weeks)

UE16: System engineering (organizations modeling)

UE17: Intercultural management 2

UE18: Oil and gas management 1 (safety & dependability, project management)

UE19: Oil and gas management 2 (HSE engineering, sustainable development)

UE20: Internship (4 to 6 months)

DAMAGE: DISASTER MANAGEMENT AND ENVIRONMENTAL IMPACT

MASTER OF SCIENCE

ADMISSION REQUIREMENTS

Applicants must hold a 4-year Bachelor of Science degree in the field of engineering (environmental sciences, logistics, and management) or sciences (chemistry, mechanics and physics). Applicants with a first experience in industry are also eligible.

LANGUAGE REQUIREMENTS

English

- Mother tongue or
- Bachelor degree taught in English or
- English test such as
  - TOEFL IBT 80
  - IELTS 6.0
  - TOEIC 750
  - Cambridge CAE

No prerequisite in French

APPLYING

All applications should be completed on-line:
https://msc-application.mines-ales.fr

Information can be requested at:
admission-damage@mines-ales.fr

Applications are open from February to July every year.

FEES AND POSSIBLE SOURCES OF FUNDING (FEES VALID FOR 2022 ENTRY)

Standard fees for 24 months are:

- € 18,000 for non EU+student,
- € 13,700 for EU+students (member states of the European Union + Iceland, Lichtenstein, North Macedonia, Norwey and Turkey).

Some costs may be funded by certain French embassies or within the framework of agreements between certain international institutions.
Compulsory taxes (medical insurance, immigration office...) is about € 350/year. An additional heathcare cover is strongly recommended for a remaining 30% (€ 200/year approx.)

HIGHLIGHTS

- A 4 to 6 months Master internship in industry or in a public research lab.
- A quality charter to welcome international students to IMT Mines Alès international campus.
- Masters taught entirely in English and in small groups.

JOB OPPORTUNITIES

Students completing this Master of Science may consider a wide range of job opportunities:

- Private sector (Disaster manager, Disaster recovery officer, Emergency Management coordinator),
- NGOS (local and international),
- Research institutes/academies…
- Civil protection Agences (government, international developpement office).

CALENDAR

One intake per year (October).
Year 1: Two academic semesters at IMT Mines Alès.
Year 2: One academic semester at IMT Mines Alès
4 to 6 months Master internship, in France or abroad.

LODGING

Individual furnished studio apartments are available for international students during their stay. The residences are close to the school campus and offer comfort and facilities to the students. Living expenses are quite low in Alès compared to other locations in France. Accommodation at the students Residence costs about € 400 per month. The total living expenses should not exceed € 7,200 per year (on campus food and accommodation).

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Testimony

In my point of view, this master is an amazing opportunity to learn about risk assessment and disaster management with good professionals and professors from several different countries such as Australia, France, the US, South Africa etc. The Master DAMAGE is a perfect balance between academic knowledge and applied case studies.

Livia PARAGUASU SANTOS, Brazilian student

CONTACT :

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