

Computer vision

4 credits



IMT MINES ALES

Master of Science • Disaster Management and Environmental Impact DAMAGE Degree Plan

FIRST YEAR 2021/2022 • *SEMESTER 1*

MODULE 1 • Risk Identification	MODULE 2 • Risk Assessment	MODULE 3 • Disaster Modeling
Bioterrorism Environmental Assessment Resilience of Critical Infrastructure Principles of Key Concepts of Disaster Risk reduction	Earthquake Geohazard and Geospatial sciences Major industrial incidents: Boilover BLEVE UVCE	Accidental Modeling Response and Mitigation
5 credits	4 credits	6 credits
MODULE 4 • Hazard Assessment	MODULE 5 • Crisis Management	MODULE 6 • Process safety and Chemical Hazards
Atmospheric Dispersion Forest fire • command and control, ERCC Risk Analysis Method/Lessons Learnt Flash Flood	Cybersecurity Critical Infrastructure Protection CBRNE Threat Resilience engineering	Crisis in Oil & Gas Industry Inherently Safer Design

FIRST YEAR 2021/2022 • *SEMESTER 2*

5 credits

6 credits

MODULE 7 • Preparedness	MODULE 8 • Disaster Management	MODULE 9 • Disaster Resilience	MODULE 10 • Disaster and Human Factors
Logical Logistics in a Disaster Response Context Humanitarian Emergencies Response to a Health Crisis	Epidemiologic Measures and Outbreak Investigation Ethical Issues Water Crisis Management	Risk Prevention Flood and Human Factor Disaster Management, Large- scale Operations	Disaster Resilience and Societal Impact Human Factor and Disaster Resilience
4 credits	4 credits	3 credits	5 credits

MODULE 11 • Disaster Medicine	MODULE 12 • Health Engineering	MODULE 13 • Data Management and Decision	MODULE 14 • Intercultural Management 1
Serious Games Disaster Medicine Key principles	Humanitarian Actions and Quality Management Healthcare Preparedness and Response	Data Preparedness and Decision Making Communication Strategies	Social Media International resources
3 credits	3 credits	4 credits	2 credits

MODULE 15 • Internship

A 6 weeks in a company or laboratory

2 credits







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SECOND YEAR 2022/2023 • SEMESTER 1

MODULE 16 • System Engineering	MODULE 17 • Intercultural Management 2	MODULE 18 • Oil and Gas Management 1	MODULE 19 • Oil and Gas Management 2
Organizations modeling Uncertainty Management Emergency Communication Systems	Intercultural Concepts International Management	Oil & Gas Exploration and Production Main Characteristics of Oil and Gas Projects Work Breakdown Structure	Safety Management Concepts Safety Management System Safety Engineering
8 credits	7 credits	7 credits	8 credits

SECOND YEAR 2022/2023 • SEMESTER 2

MODULE 20 • Internship

A 4 to 6 months in a company or laboratory

30 credits

Brief observations regarding the program:

- A credit is about 8-12 hours.
- All courses are mandatory
- The order of classes can change based on the availability of professors
- Free French courses are offered once a week for the first year.
- A case study is included for every two modules.

Non contractual document-January 2022