



MINISTRY OF HIGH EDUCATION AND SCIENTIFIC RESEARCH



UNIVERSITY OF BATNA 2
INSTITUTE OF EARTH SCIENCES AND UNIVERSE
DEPARTEMENT OF GEOGRAPHY AND TERRITORY PLANNING

MASTER TRAINING OFFER

RISK MANAGEMENT AND CIVIL SECURITY

Semester 1 : RISK MANAGEMENT AND CIVIL SECURITY

| Teaching Unit (TU) | S.H.V | Weekly H.V | | | | Coeff. | Credits | Evaluation method | |
|---|---------------|--------------|-------------|-------------|---------------|-----------|-----------|-------------------|------|
| | 15 sem. | C | DW | PW | Others | | | Continuous | Exam |
| TU Fundamentals | | | | | | | | | |
| TUF1 : | | | | | | | | | |
| Subject 1 : analysis of the territory | 45h00 | 1h 30 | - | 1h 30 | 45h00 | 2 | 4 | 40% | 60% |
| Subject 2 : Geomorphology: Morphogenic processes | 67h30 | 1h 30 | 3h 00 | - | 67h30 | 3 | 6 | 40% | 60% |
| TUF2: | | | | | | | | | |
| Subject 1 : Urban settings: dynamics and planning | 45h00 | 1h 30 | - | 1h 30 | 45h00 | 2 | 4 | 40% | 60% |
| Subject 2 : Dynamics of physical settings and associated hazards | 45 h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 4 | 40% | 60% |
| TU Methodology | | | | | | | | | |
| TUM1: | | | | | | | | | |
| Subject 1 : Planning tools and governance | 45h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 3 | 40% | 60% |
| Subject 2 : statistical analysis | 45h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 3 | 40% | 60% |
| TUM2: | | | | | | | | | |
| Subject 1 : Ecology and environment | 22h30 | 1h 30 | - | - | 22h30 | 1 | 2 | - | 100% |
| Subject 2 : Legislation on development and risks | 22h30 | 1h 30 | - | - | 22h30 | 1 | 1 | - | 100% |
| TU Discovery | | | | | | | | | |
| TUD: communication Skills | 22h30 | 1h 30 | - | - | 22h30 | 1 | 2 | - | 100% |
| TU Transverse | | | | | | | | | |
| TUT: Technical English 1 | 22h30 | 1h 30 | - | - | 22h30 | 1 | 1 | - | 100% |
| Total Semestre 1 | 382h30 | 15h00 | 7h30 | 3h00 | 382h30 | 17 | 30 | | |

Semester 2 : RISK MANAGEMENT AND CIVIL SECURITY

| Teaching Unit (TU) | S.H.V | Weekly H.V | | | | Coeff. | Credits | Evaluation method | |
|--|---------------|--------------|-------------|-------------|---------------|-----------|-----------|-------------------|------|
| | 15 sem. | C | DW | PW | Others | | | Continuous | Exam |
| TU Fundamentals | | | | | | | | | |
| TUF1 : | | | | | | | | | |
| Subject 1 : The typology of natural hazards | 45h00 | 1h 30 | 1h 30 | - | 45h00 | 3 | 5 | 40% | 60% |
| Subject 2 : Urban and technological risks | 45h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 5 | 40% | 60% |
| TUF2: | | | | | | | | | |
| Subject 1 : Risk of erosion; quantitative approach | 45h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 4 | 40% | 60% |
| Subject 2 : Applied hydro climatology | 45 h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 4 | 40% | 60% |
| TU Methodology | | | | | | | | | |
| TUM1: | | | | | | | | | |
| Subject 1 : Remote sensing | 45h00 | 1h 30 | - | 1h 30 | 45h00 | 2 | 3 | 40% | 60% |
| Subject 2 : Geographic information systems | 45h00 | 1h 30 | - | 1h 30 | 45h00 | 1 | 2 | 40% | 60% |
| TUM2: | | | | | | | | | |
| Subject 1 : Soil mechanics | 45h00 | 1h 30 | 1h 30 | - | 22h30 | 1 | 2 | 40% | 60% |
| Subject 2 : Field practicum | 45h00 | - | - | - | 45h00 | 2 | 2 | - | 100% |
| TU Discovery | | | | | | | | | |
| TUD: The Cyndic: Global Risk Analysis | 22h30 | 1h 30 | - | - | 22h30 | 1 | 2 | - | 100% |
| TU Transverse | | | | | | | | | |
| TUT: Technical English 2 | 22h30 | 1h 30 | - | - | 22h30 | 1 | 1 | - | 100% |
| Total Semestre 2 | 405h00 | 13h30 | 7h30 | 3h00 | 405h00 | 17 | 30 | | |

Semester 3 : RISK MANAGEMENT AND CIVIL SECURITY

| Teaching Unit (TU) | S.H.V | Weekly H.V | | | | Coeff. | Credits | Evaluation method | |
|---|---------------|--------------|-------------|-------------|---------------|-----------|-----------|-------------------|------|
| | 15 sem. | C | DW | PW | Others | | | Continuous | Exam |
| TU Fundamentals | | | | | | | | | |
| TUF1 : | | | | | | | | | |
| Subject 1 : Seismic risk | 45h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 4 | 40% | 60% |
| Subject 2 : Vulnerability analysis and risk assessment techniques | 45h00 | 1h 30 | - | 1h 30 | 45h00 | 2 | 4 | 40% | 60% |
| TUF2: | | | | | | | | | |
| Subject 1 : Feedback and crisis management (orsec plan) | 45h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 4 | 40% | 60% |
| Subject 2 : Risk management and territory planning | 45 h00 | 1h 30 | - | 3h 00 | 67h30 | 3 | 6 | 40% | 60% |
| TU Methodology | | | | | | | | | |
| TUM1: | | | | | | | | | |
| Subject 1 : Risk expertise, insurance and compensation system | 45h00 | 1h 30 | 1h 30 | - | 45h00 | 2 | 4 | 40% | 60% |
| TUM2: | | | | | | | | | |
| Subject 2 : Geomatics tools in risk management | 45h00 | 1h 30 | - | 1h 30 | 45h00 | 2 | 3 | 40% | 60% |
| Subject 3 : Research methodology | 22h30 | 1h30 | - | | 22h30 | 2 | 2 | - | 100% |
| TU Discovery | | | | | | | | | |
| TUD: Entrepreneurship | 22h30 | 1h 30 | - | - | 22h30 | 1 | 2 | - | 100% |
| TU Transverse | | | | | | | | | |
| TUT: Technical English 3 | 22h30 | 1h 30 | - | - | 22h30 | 1 | 1 | - | 100% |
| Total Semestre 3 | 360h00 | 13h30 | 4h30 | 6h00 | 360h00 | 17 | 30 | | |

Semester 4 : RISK MANAGEMENT AND CIVIL SECURITY

Field: Earth sciences and universe

Section: Geography and spatial planning

Specialty: Territory planning

A research and fieldwork translated into a thesis and dissertation.

| Teaching Unit (TU) | VHS | Coeff | Crédits |
|----------------------------|------------|--------------|----------------|
| TU Fundamentals | | | |
| Final project study | 360 | 17 | 30 |
| Total Semester 4 | 360 | 17 | 30 |