



**UNIVERSIDADE FEDERAL DA BAHIA  
ESCOLA POLITÉCNICA  
GABINETE DA DIRETORIA**



**COOPERATION (2019-2022) and ADDENDUM (2019-2022) PUT UFBA (attached)**

**ACTIVITY: CRISIS MANAGEMENT THROUGH SEMINARS AND ONLINE COURSES**

**Method: Didactic-scientific internship (online)**

«Crisis, Risk and Reliability Management: Decision Tools to Deal with Disaster & Accidents based on Human and Organizational Factors – Public Safety, Process & Productivity» at the Federal University of Bahia - "Polytechnic School of UFBA - EPUFBA" for the academic staff of the Faculty of Engineering Management, Poznan University of Technology.

**Period:** September 1, 2021 – November 30, 2021

**Total credit hours:** 60 hours

**Location:** activity at a distance (online)

**Purpose:** international internship related to Cooperation between UFBA partner universities – PUT (Memorandum of Understanding between partner universities)

**From:** Poznan University of Technology - PUT

**PROFESSOR**

Beata Murgalska – Ph.D., D.Sc., Eng., Assistant Professor

**POSTGRADUATE STUDENTS**

Monika Konieczna – MSc – PhD student

**UNDERGRADUATE STUDENTS**

Master students of Safety Engineering

From: Federal University of Bahia "UFBA Polytechnic School - EPUFBA

**PROFESSOR**

Salvador Ávila Filho – D.Sc., Eng., Adjunct IV Professor

**POSTGRADUATE STUDENTS**

Ivone Cerqueira - Post Graduation Student Doctoral Research - Industrial Engineering - PEI

Jade Spinola A. - Graduation Student Master Research - Industrial Engineering - PEI

**UNDERGRADUATE STUDENTS**

Júlia Ávila - Undergraduate Student in Health – Medicine School

Lucas Menezes – Undergraduate Student – Engineering School

**Other Speaker-Participants:**

**PROGESP Public Management Program**

Police Class in Strategic Intelligence)

**PPEC Civil Engineering Program**

Organizational Resilience Class

**Researchers**

Scientific Initiation (PIBIC IC)

GRODIN Research Group

**Industry and Public Services**

Partner Industries

Fire Department and Police

During this online Internship Program, we intend to discuss projects, teach courses, and present expert lectures-seminars:

#### **Projects**

Just Culture Project in Industry

Project to avoid unscheduled shutdowns in the industry (avoiding accidents and loss of energy)

Project for the preparation of Special Operations Teams in Crises

Crisis Management Project in the Fire Department

#### **Courses**

Reliability Indicators for Decisions in Sociotechnical Systems

Human-Organizational Factors and Design of Barriers to Avoid the Crisis

Crisis Management and the COVID19 case

#### **Seminars**

1 – Critical Situations in Crowd Control

2 – Performance in Crisis Contingency

3 – Influence of the Safety Culture Style on the possibility of an accident

#### **Activity Program**

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|-----------------------------|---|
| <b>September</b><br>on-line | Introduction meeting (Approval of the work plan and research topic)<br>Human and Sociotechnical Reliability Calculation and decisions<br>Seminar/Short Course/Project, industry partners, public agency partner   |
| <b>October</b><br>on-line   | Measuring and Managing Human Factors and Elements<br>Seminar/Short Course/Project, industry partners, public agency partner<br>Roundtable “Reliability, Risk and Human Factor”  |
| <b>November</b><br>on-line  | Management of Crisis: Decision Tools for COVID19<br>Pandemic Curve and Fatalities<br>Rationalities and Protocols Post-Covid<br>Competence, Stress and Communication<br>Seminar/Short Course/Project, industry partners, public agency partner<br>Preparation for the International Winter/summer School (January/February): Post-Covid Human Factors Challenge - courses and lectures |

#### **Responsible for meetings organization:**

**Salvador Ávila Filho** – Adjunct Professor

Ivone Cerqueira – Postgraduate Student

Lucas Menezes – Undergraduate Student

Júlia Ávila – Undergraduate Student

#### **Responsible for reporting:**

**Beata Mrugalska** - Ph.D., D.Sc., Eng., Assistant Professor

Monika Konieczna – MSc – PhD student

**Costing:** participants cover the cost of internship by themselves

#### **APPROVED:**



DSc, Tatiana Bittencourt, University Professor

Director of the Polytechnic School – Federal University of Bahia