# Information Visualization

# CHECKPOINT I: Visualization Proposal

G08

**1. Domain**

- Our domain for the project is the **employment/unemployment** of higher education courses from all the public and private universities of Portugal.

**2. Dataset**

* + - 1. - We will use a set of documents (excel format) provided by DGEEC (“Direção-Geral de Estatísticas da Educação e Ciência”) with the information about all the courses and the respective year.
    1. - The data mentioned above is in the DGEEC website, available at http://www.dgeec.mec.pt/np4/92/
       1. **3. Tasks to be supported**

- Task 1: Query Compare - Compare the total number of unemployed people of different courses (regardless of conclusion year)

- Task 2: Consume Present – Present the information about the amount of total unemployed people graduated from a specific course across time

- Task 3: Search Locate – Locate course that has a faster rate of employment after finish it across time 2015

- Task 4: Correlation – Relation between 2016 minimum entry grade and unemployment in 2010-2014 graduates.

* + - 1. **4. Example Questions**
      2. - Does Computer Science graduates in IST have more unemployment, in 2015, than Computer Science in ISEL? And in 2014? (Task 1)
      3. - Is Computer Science in IST having less unemployed graduates in last years? (Task 2)
    1. - What was the year which had less unemployed people from Computer Science in IST? (Task 2)
    2. - How many people are unemployed from 0 to 6 months after graduation at Computer Science (IST) in 2015? And from 6 to 12 months? Does this change if unemployed after first job? (Task 3)
    3. - Where the unemployment will be higher? In a course with 14 minimum entry grade or one with 17? (Task 4)
       1. **5. Data Sample**

(from “2015.csv”)

UnidadeOrganica; Curso; N.Desempregados;

IST; Engenharia Informática e de Computadores; 1

ISEL; Engenharia Informática e de Computadores; 1

(from “2014.csv”)

UnidadeOrganica; Curso; N.Desempregados;

IST; Engenharia Informática e de Computadores; 2

ISEL; Engenharia Informática e de Computadores; 3

(from “2016.csv”)

UnidadeOrganica; Curso; NotaMinima;

IST; Engenharia Informática e de Computadores; 16.7