# Information Visualization

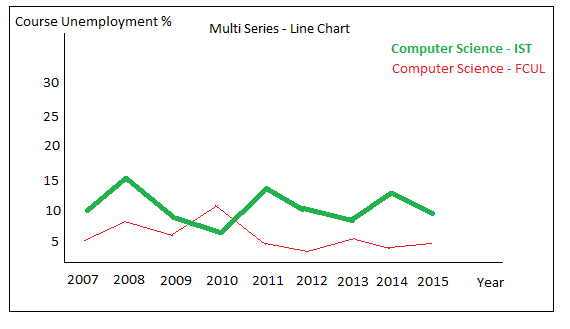
# CHECKPOINT III: Visualization Sketch

G08-A

**1. Visual Encoding**

Description of the visual encoding you have selected for each data type.

* Course Unemployment % – Encoded as **position** in vertical axis
* Year – Encoded as **position** in horizontal axis
* Course/University Name – Encoded as **colours “hue”**
* Entry Grade – Encoded as **position** in horizontal axis

**2. Idiom and Tasks/Questions**

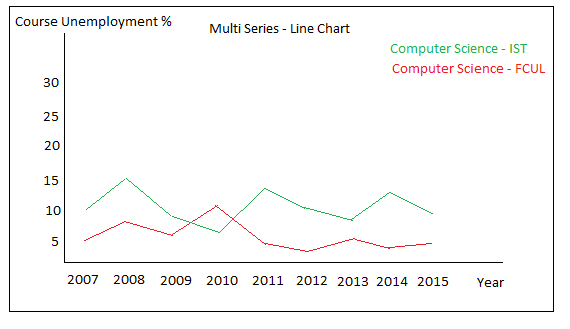
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Image – (Left) Line chart comparing two courses and (right) line chart comparing the same courses with a course selected (due to interaction) that will affect the …. (TODO)

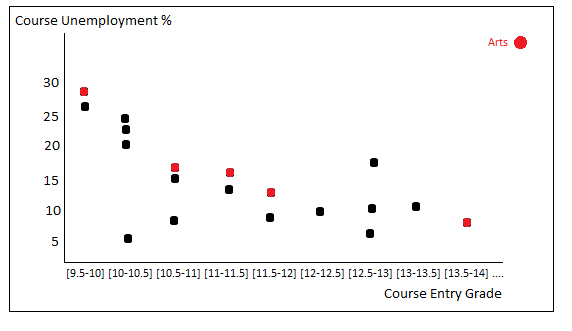
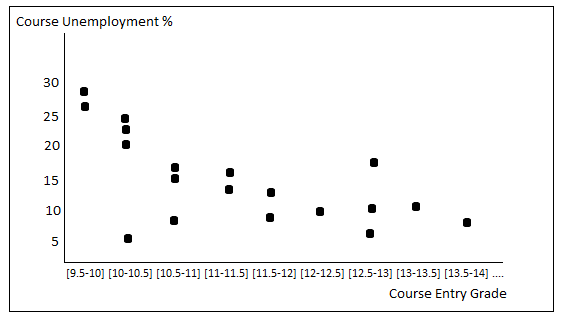
- **Task 1**: Query->Compare - Compare the unemployment (%) of different courses (regardless of course conclusion year of the graduates)

- **Task 2**: Analyze->Consume->Present – Present the information about unemployment (%) from a specific course graduates across time

- **Question 1**: Does Computer Science graduates in IST have more unemployment, in 2015, than Computer Science in ISEL? And in 2007? **(Task 1)**

- **Question 2**: Is Computer Science in IST having less unemployed graduates in last years? **(Task 2)**

- **Question 3**: What was the year which had less unemployed people from Computer Science in IST? **(Task 2)**



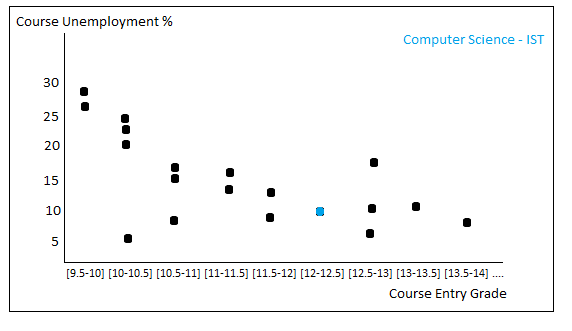


Image – (Top Right) Scatter plot highlighting the course from a specific area due to interaction in area’s idiom. (Bottom) Scatter plot highlighting a specific course (due to interaction) selected in course’s line chart.

**New Opportunity**: Catch outlier’s courses to see if there is a specific course in an area with higher unemployment that has a very low unemployment. This is easy because the course’s area unemployment view will be “connected” with this one.

**New Opportunity 2**: Catch the unemployment/entry grade correlation for courses from the same area. This is possible due to possibility of select an area in courses area view and highlight here (Top Right of Image 2).

- **Task 4**: Consume->Present – Relation between minimum entry grade and unemployment (%)

- **Question 4**: Where the unemployment will be higher? In a course with 14 minimum entry grade or one with 17? (Task 4)