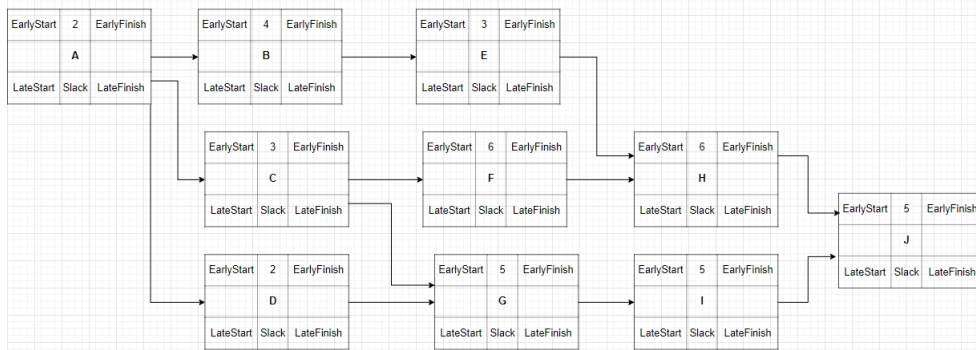


### 1. Diploma smart objectives

- a. Specific
  - b. Measurable (the accuracy)
  - c. Achievable
  - d. Relevant
  - e. Time-bound
- By 27.04.2020 build a system that performs semantic segmentation on video sequences with an accuracy of at least 70%.
  - In training the system only use a video dataset sparsely labeled (labels only for 25% of the dataset).
    - Time-bound to training phase
  - By 15.05.2020 write 75% of the license thesis.



2.

$$A B E H J = 2 + 4 + 3 + 6 + 5 = 20$$

$$A C F H J = 2 + 3 + 6 + 6 + 5 = 22 \Rightarrow \text{critical path}$$

$$A C G I J = 2 + 3 + 5 + 5 + 5 = 20$$

$$A D G I J = 2 + 2 + 5 + 5 + 5 = 19$$

To reduce the project duration, reduce activity H duration since it is on the critical path.

3. Risk prob 50% impact 300 000 EUR

Risk mitigation plan 50 000 EUR and reduces probability to 25% and impact to 200 000.

Risk transfer eliminates the risk and cost 200 000.

No strategy (acceptance) impact:  $50/100 * 300000 = 125\ 000$  EUR

Risk mitigation impact:  $50\ 000 + 25/100 * 200\ 000 = 100\ 000$  EUR

Risk transfer impact: 200 000 EUR

Choose risk mitigation.

4. 6 months, BAC = 100000 EUR.

Current, 4 months passed, AC=70000, 50% of work completed.

EAC if performance index maintained for rest of project?

$$AC = 70000 \text{ EUR}$$

$$BAC = 100000 \text{ EUR}$$

$$EV = 50 / 100 * 100000 = 50000 \text{ EUR}$$

$$EAC = AC + (BAC - EV) / CPI$$

$$CPI = EV / AC$$

$$CPI = 0.714$$

$$EAC = 140000 \text{ EUR}$$