

- Simulation -

1 QUESTION - (4 POINTS)

The student has to define the business process notion and its life-cycle.

2 QUESTION - (4 POINTS)

The student has to discuss the relationships between Archimate and Zachman framework.

3 QUESTION - (4 POINTS)

The student has to discuss the difference between collaboration and choreography diagrams.

4 MODELLING EXERCISE - (7 POINTS)

Student Administration is a business function that is composed of a number of business processes and a business interaction. This business function realizes a Student Data Processing business service. A business event Enrollment triggers the first business process, Obtain Data from student, which in turn triggers a business process Assign matricula. Depending on the type of student profile, either the business process with tax or the business interaction Adjudicate fellowship is performed. Adjudication fellowship is a business interaction because, according to the university policy, five people should always be involved in this activity to minimize the risk of fraud. After adjudication, the business processes Notify Student is performed in parallel, and when it has finished, business process study is triggered.

5 MODELLING EXERCISE - (7 POINTS)

Model the following process using BPMN 2.0. "End-of-study projects in an industrial environment is a mandatory part of the Bachelor curriculum. The students are not yet involved in the planning phase, where each research group interacts with its industry partners. As the

project proposals have to be handed into the faculty by 30 June, the research group starts planning at the beginning of June. The group sends a request to all of its partners and waits for their proposals for at most a week. The group selects the two most interesting proposals and starts planning the details for these two proposals. First, the proposal is worked over in several iterations: The group updates the proposal document before it is sent to the partner who in turn updates it and sends it back. Once the document has reached a final status, it is handed into the faculty. The faculty decides which of the proposals will be accepted. The outcome of this decision results in one of two messages: Either the project proposal was rejected or it was accepted. In the latter case, the group announces this positive result to the corresponding partner”.

Remark: The internal processes of the faculty and the partners should not be modelled.

6 MODELLING EXERCISE - (7 POINTS)

The student has to transform the BPMN collaboration diagram in Fig. 6 in a BPMN choreography diagram.

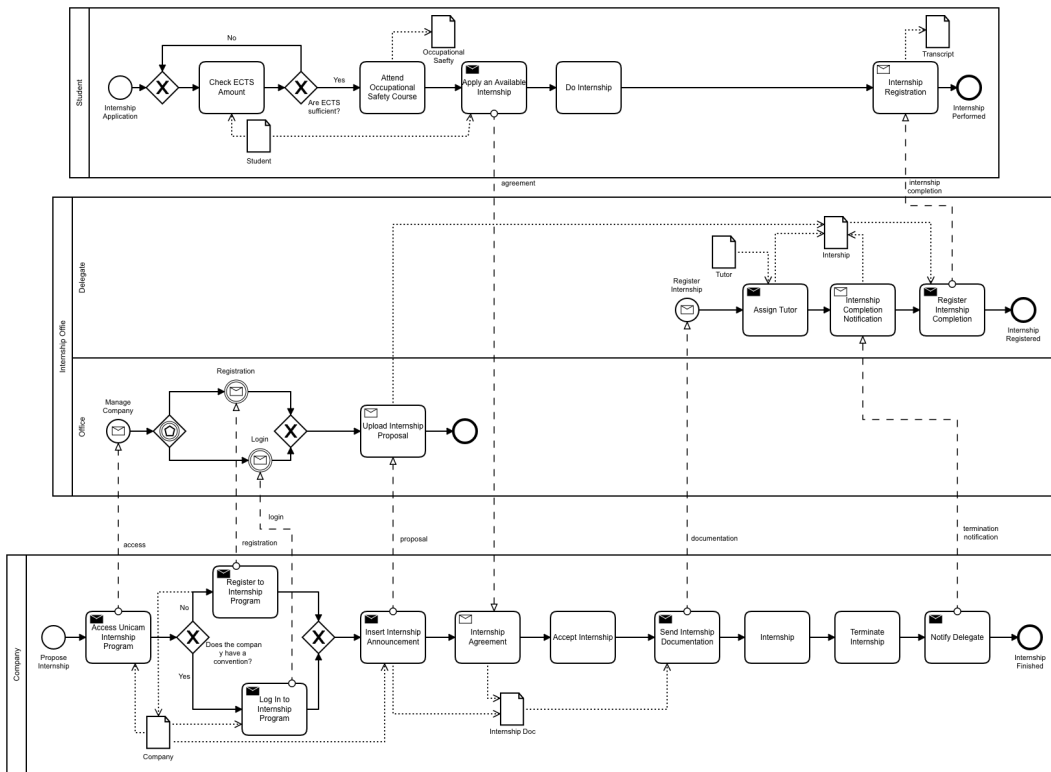


Figure 6.1: Collaboration diagram related to an internship procedure