

## Group Formation and Topic Selection

Name	Student number	Study program	ECTS for project
Paola Garcia	313445	GBE	15
Jordi Lazo	313296	Software Engineering	15
Nils Franke	313446	GBE	15
Anne Schneider	313444	GBE	15

**Project title:** The title of the project:

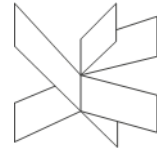
Automatic registration of students' presence in classes and around the facility.

**Background:** A short explanation about the background for the project topic:

After the construction of the new facilities for the VIA university, the university management has found the need to control the entry of students and guests into the university and the attendance in classes. This control would facilitate classroom management for teachers and would improve other aspects.

**Purpose (WHY):**

- The system will check if student or a guest attend the correct class or course (for prof & student)
- The system will control the number of students attending the classes for future time and room scheduling



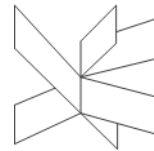
- The system will prevent the entrance of unauthorized persons (only students are allowed in the area)
- Data gathering for future use: improvements of classes (more attendance), final grade in relation to attendance, attendance in guest lectures

**Problem(WHAT):**

With the new facility the problem of room scheduling has arisen. In order to fit all students of the corresponding classes in an available room, a tool for optimizing room resources is necessary. Furthermore, due to the high number of students there is no possibility to control the attendance in mandatory classes. Taken into account we are in a state of a global pandemic, a control (log-book) of persons entering the facility could help to tracing contacts and therefore the further spreading of viruses.

**Keywords:** A list of main topics in the project:

- Control attendance
- Optimizing room resources
- Data gathering to improve future classes or courses
- Student control by scanner or qr code
- Mobile app
- Data security
- Smartphone system (android and iOS)
- Functional and non-functional requirements



**Individual learning objectives:** Please state individual learning objectives based on interest and feedback from previous projects and Process Report reflections.

Name	Learning objectives
Paola Garcia	-
Jordi Lazo	-
Nils Franke	-
Anne Schneider	-

**Initial acceptance:**

Date:

Name:

Supervisors Signature:

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